

November 30, 2001.

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Mr. Ondrej Kojnok TriStar Partnership 2980 Thomas Grade Morgan Hill, California 95037



Quarterly Monitoring – Second and Third Quarters and Backfill Sampling Summary Autopro Site 5200 Telegraph Avenue Oakland, California

Dear Mr. Kojnok:

MACTEC Engineering and Consulting, Inc. (MACTEC) is pleased to present the results of the second and third quarter sampling events and the utility trench backfill investigation for the Autopro Site located at 5200 Telegraph Avenue in Oakland, California (Site; Plate 1). This investigation was conducted in response the December 24, 2002, letter from the Alameda County Health Care Services, Environmental Health Services Department (County). In this letter, the County requested that Autopro conduct quarterly monitoring for a period of one year, evaluate the effect the tops of the wells being screened below the depth to groundwater has on detected petroleum hydrocarbon concentrations in wells, and perform a one-time sampling of the backfill in nearby sewer and storm drain lines.

The County requested that the results of the backfill analysis be included in the first quarterly report. Due to complications with encroachment requirements with the City of Oakland, the field work for the backfill evaluation was not completed until early August with results received in late August. Therefore, this report includes the results for the first two sampling events of the one year monitoring period.

#### **QUARTERLY MONITORING**

The second quarter monitoring event was performed on June 23, 2004, with the third quarter event being performed on September 22. MACTEC performed purging and sampling of accessible on and offsite wells (including Chevron Wells MW-2 and MW-3). Well MW-5, appears to be damaged (the Christy box was filled with dirt and asphalt) and was not accessible during either sampling event, and Chevron Well MW-3 was covered by a vehicle during the September event. Prior to sampling, depth to water in the monitoring wells was measured using a calibrated electronic water level meter. No evidence of free product was noted in any of the wells.

All wells were purged of a minimum of three well volumes using a PVC bailer. Conductivity, pH, and temperature parameters were collected at regular intervals and recorded on the attached well sampling forms in Appendix A. Samples were then collected from the monitoring wells using a disposable bailer and samples transferred to laboratory-supplied glassware.

Prior to use, all well purging equipment was steam cleaned and rinsed with deionized water at the MACTEC equipment yard. Well purge water was temporarily stored onsite in 55-gallon drums pending receipt of analytical results

## Laboratory Analysis

Groundwater samples were analyzed for the following analysis in accordance with the County December 24, 2002, letter as follows:

- Total petroleum hydrocarbons (TPH) as gasoline (g), diesel (d), and motor oil (mo) using EPA Test Method 8015m
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), 1.2 dichloroethane (1,2-DCA), and fuel oxygenates methyl tertiary butyl ether (MTBE), tertiary amyl methyl ether (TAME), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary butyl alcohol (EDC), ethylene dibromide (EDB), ethylene dichloride (EDC), and ethanol using EPA Test Method 8260B.

#### **Groundwater Flow**

On the basis of groundwater levels collected from the monitoring wells prior to groundwater sampling on June 23 and September 22, 2004, the groundwater flow direction at the Site was generally to the south-southwest with hydraulic gradients ranging between 0.0031 and 0.0039. Table 1 presents groundwater elevations from June 23 and September 22 (including historical elevations), and Plates 3 through 5 present the current groundwater elevation contour map and the rose diagrams depicting groundwater hydraulic gradients (Autopro wells only).

#### **Laboratory Results**

The laboratory analytical reports for groundwater samples submitted for chemical analysis are presented as Appendix A. Table 2 summarizes the analytical results for the groundwater samples collected during these two sampling events and previous sampling events and Plates 6 through 9 present plume maps. The results were as follows:

#### June 23 Sampling Event

- TPHg was detected at concentrations of 530, 33,000, and 1,700 micrograms per liter (μg/L) in samples collected from Autopro wells MW-1, MW-3, and MW-4 respectively
- TPHd was detected at concentrations between 56 and 1,200 µg/L in samples collected from all sampled wells
- Ethylebenzene was detected at a concentration of 0.67 μg/L in the sample collected from Well MW-4

 Total xylenes were detected at concentrations of 5.6 and 1.2 μg/L in samples collected from Wells MW-3 and MW-4 respectively

TPHmo, benzene, toluene and all fuel oxygenates were not detected in collected samples.

## September 22 Sampling Event

- TPHg was detected at concentrations of 260, 13,000, and 1,800 μg/L in samples collected from Autopro wells MW-1, MW-3, and MW-4 respectively
- TPHd was detected at concentrations between 74 and 2,500 µg/L in samples collected from all sampled wells

TPHmo, BTEX and all fuel oxygenates were not detected in collected samples.

#### UTILITY BACKFILL SAMPLING

Prior to performing field work, a boring permit was obtained from the Alameda County Public Works Agency (ACPWA). In addition, an encroachment permit (including filing of a traffic control plan) and excavation permit were obtained from the City of Oakland Department of Public Works.

On August 7, 2004, MACTEC oversaw the installation of two borings (B-1 and B-2) adjacent to the sanitary sewer line and storm drain line backfills respectively as detailed on (Plate 2). The borings were installed using a direct-push drill rig equipped with 1-7/8-inch-diameter, hollow, drive rod operated by Precision Drilling, Richmond, California. Both boreholes were advanced to depths of 16 feet below ground surface (bgs). The intent of the investigation was to collect a grab groundwater sample from each of the utility trench backfills. However, the boring adjacent to the sanitary sewer was dry to the maximum obtainable depth of 16 feet bgs. Several locations were attempted adjacent to sanitary sewer backfill; however, groundwater was not present at either location. The sample collected from the boring adjacent to the storm drain backfill was collected using a disposable Teflon bailer and decanted into the appropriate analytical laboratory supplied sample containers. Sample handling procedures discussed above for the quarterly sampling events were utilized for the backfill sample. The sample was analyzed for the same compounds as the water samples collected for the quarterly monitoring events.

Upon conclusion of the boring program, both boreholes were backfilled to the surface with grout.

#### Hydrogeology

Observations during borehole installation revealed that a series of asphalt, cement, and baserock were encountered to depths between approximately one and two feet bgs. Clay and sandy clay were encountered below the baserock to depths between 11 and 15 feet bgs. Well graded sand with gravel was encountered to 16 feet bgs, the maximum depth explored. Moderate to strong petroleum odors were noted in both borings at depths of approximately 13 to 15 feet bgs. No visual signs of stained soil were observed at either of the boring locations. Although the borings were drilled immediately adjacent to the

manholes associated with the respective utility trenches, based on the interpretation of the field boring logs, it does not appear that trench backfill was encountered in either boring. It is possible that native soil was used to backfill the utility trenches. Field boring logs are presented as Appendix A.

Initial groundwater was encountered during drilling in Boring B-2 at depths between 13 to 14 feet bgs, but later rose to a depth of approximately 12 feet bgs.

#### **Laboratory Results**

The laboratory analytical reports for the groundwater sample submitted for chemical analysis is presented in Appendix B and Table 3 summarizes the analytical results for the groundwater sample. Analytical results of the sample indicated the following:

- TPHg was detected at a concentration of 57,000 μg/L
- TPHd was detected at a concentration of 29,000 μg/L
- Benzene, toluene, ethylbenzene, and xylenes were detected at concentrations of 9.5, 36, 11, and 29 μg/L, respectively.
- TPHmo and oxygenates were not detected.

## WELL SCREEN EVALUATION

In accordance with the County's December 24, 2002, request, this discussion details MACTEC's evaluation and interpretation of the relationship between the screened interval of monitoring wells utilized during investigations activities at the Site and the detected concentrations of petroleum hydrocarbons in groundwater. As detailed in the County's letter, concerns were raised that concentrations of detected petroleum hydrocarbons in onsite monitoring wells were not representative of onsite conditions due to the wells being screened at a lower interval than historical groundwater elevations.

In April 1994, Environmental Science and Engineering (ESE) supervised the installation of monitoring Wells MW-1 through MW-4 at the Site. Well logs for Well MW-5 were not available for review as the well was installed by others for the nearby Chevron investigation.

Review of well boring logs indicate that first groundwater was encountered at depths between 15 and 20 feet bgs during well borehole installation, but later rose to depths between 11 and 12 feet bgs. In addition, the borings log indicated that in general, silty clay was encountered at depths between 2 feet and 11 feet bgs and was underlain by sandy gravel to depths between 15 and 25 feet bgs. During drilling, petroleum odors and detectible photo ionization detector (PID) readings were detected at depths between 5 and 15 feet bgs. The wells were subsequently screened at depths between 15 and 25 (30 feet for Well MW-1).

ESE concluded the water level disparity in post-well installation was due to low conductivity of sediments rather than confining conditions. However, on the basis of MACTEC's review of the boring logs, we interrupt the disparity to be due to the confining clay layer present above the sandy gravel. ESE's logs indicate that the clay layer was dry to damp with no free moisture while the sandy clay was damp to saturated indicating the sandy clay is the water bearing zone.

It is unlikely that the presence of well screen intervals below historical groundwater levels at the Site is having an appreciable effect on groundwater elevations and interrupted groundwater flow at the Site as the water levels will rise to what ever the confining pressure allows. However, there is the potential the lower screen interval is distorting petroleum hydrocarbon concentrations detected in wells. Petroleum hydrocarbons (gasoline and diesel) characteristically have a lower specific gravity than groundwater; therefore, float on water. Because the well screen intervals are lower than historical water levels, it is possible that petroleum hydrocarbon concentrations detected at the site only represent the dissolved fraction of the petroleum hydrocarbons only, therefore biasing the results lower. Although the results may be biased low, it is MACTEC's opinion that this has little impact on current on going trends for the site as the concentrations continue to be near or above regulatory cleanup guidelines and do not influence the interpretation of petroleum hydrocarbon presence at the site. Comparison of historical groundwater levels with corresponding quarterly monitoring data do not indicate a trend toward higher petroleum hydrocarbon concentrations as the water levels lower and approach the screened interval. Petroleum hydrocarbon concentrations trends in the wells appear to follow a seasonal trend being generally higher in the winter. This trend is likely attributed to residual petroleum hydrocarbons in the soil which come in contact with groundwater during the winter months.

The one significant effect that the inappropriate screen levels may have for the site is the determination of the presence of free floating petroleum product (FFPP). Lucite bailers are being used to determine the presence of product in wells (no FPPP has been noted); however, because the well screens are below the highest level of the sand lenses it is possible that product is being caught in the formation. In normal circumstances, any product in the formation would flow through the screen and float to the surface. Because the water level in the water bearing sand unit is above the screened interval, any product present in the information would be trapped in formation and not detectable.

The County's December 24 letter also requested that a hydrograph be prepared that detailed the relationship between the screen interval and water table. Because water levels have never been below the top of the screened interval (the lowest historic water level has been 13.33 feet below top of casing), preparation of a hydrograph will not augment current data. As discussed above, there is not a trend toward higher petroleum hydrocarbon concentrations as the water levels lower and approach the screened interval.

#### **DISCUSSION**

Quarterly monitoring results indicate low to moderate concentrations of petroleum hydrocarbon constituents within historical ranges continue to be present in onsite monitoring wells. Concentrations of TPHg and TPHd continue to be above the general water quality objective of 0.1 mg/L / 1,000  $\mu$ g/L established by the Regional Water Quality Control Board (RWQCB). BTEX concentrations did not

exceed maximum contaminant levels (MCLs) during the past two quarterly monitoring events; however, Well MW-5, the well with the historically highest BTEX concentrations was not sampled due to well damage.

Groundwater flow was to the south-southwest which is consistent with historical trends.

Comparison of sample results from the utility trench sampling with the quarterly monitoring sampling events indicate that the petroleum hydrocarbon concentrations in groundwater in/near the utility trench are higher than those in onsite wells. Specifically, TPHd concentrations, which were approximately 10 orders of magnitude higher in the utility trench groundwater sample. This information suggests that the release from the Site has migrated to the utility trenches which are acting as a preferential pathway for the release.

#### PLANNED ACTIVITIES

Pursuant to the letter from the County to conduct quarterly groundwater monitoring, our next sampling event is scheduled for mid to late December. Analysis of samples for fuel oxygenates will no longer be performed. As detailed in the County's December 2002 letter, any fuel oxygenates not detected in the initial rounds of sampling can be dropped from the program in subsequent quarters. MACTEC is also currently evaluating the level of effort necessary to repair Well MW-5. At this time it appears we will be required to obtain an encroachment and lane closure permits from the City of Oakland and also file a traffic control plan. We are in the process of requesting additional funding that will be necessary from the State Water Resources Control Board (SWRCB) cleanup fund to perform this task and anticipate it will be early January before this task is authorized.

We trust this report provides the information required at this time. Please feel free to contact Gary Lieberman at (707) 793-3858 if you have questions.

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Yours very truly,

MACTEC Engineering & Consulting, Inc.

Gary A. Lieberman

Senior Geologist

Michael G. Burns, CHG

Principal Geologist

GAL/mlb:MB60969-ESC

Attachments: Table 1 - Historical Groundwater Elevation Data

Table 2 - Historical Groundwater Analytical Data

Table 3 - Groundwater Analytical Results - Utility Trench Backfill Boring

Plate 1 – Vicinity Map

Plate 2 – Site Map and Utility Trench Backfill Boring Location

Plate 3 - Groundwater Contour Map - September 22, 2004

Plate 4 – Rose Diagram – Groundwater Direction Frequency

Plate 5 – Rose Diagram – Groundwater Direction Magnitude

Plate 6 – Total Petroleum Hydrocarbons as Gasoline – June 23, 2004

Plate 7 - Total Petroleum Hydrocarbons as Gasoline - September 22, 2004

Plate 8 – Total Petroleum Hydrocarbons as Diesel – June 23, 2004

Plate 9 - Total Petroleum Hydrocarbons as Diesel - September 22, 2004

Appendix A – Well Sampling Forms

Appendix B – Field Boring Logs

Appendix C – Laboratory Analytical Report

cc: Mr. Don Huang, Alameda County Health Care Services

TABLE 1
HISTORICAL GROUNDWATER ELEVATION DATA

## Autopro Facility 5200 Telegraph Avenue Oakland, California

Max Well LD: 199	Date (	Datum		(Glodind Water Elevation)
	a de la compansión de l		in a (feet) #7, act	FETTO SUPERIOR OF THE PARTY OF
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	102.91 105.49
	12/11/96		9.95	105.49
	12/12/97		10.28 5.12	110.32
	03/23/98 06/16/ <del>9</del> 8		10.15	105.29
	08/25/98		13.10	102.34
	09/30/98		13.33	102.34
	12/15/98		11.78	103.66
<b>!</b>	03/22/02		11.45	103.99
	06/28/02		12.16	103.28
	09/06/02		13.05	102.39
	01/06/03	•	10.81	104.63
	06/23/04		12.55	102.89
	09/22/04		13.11	102.33
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
li .	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
H	09/30/98		12.42	102.20
1	12/15/98	İ	10.93	103.69
	03/22/02		10.32	104.30
	06/28/02		11.26	103.36
	09/06/02		12.10	102.52
1	01/06/03		9.94	104.68
	06/23/04		11.90 12.22	102.72 102.40
Balas a	09/22/04 04/26/94	442.00		102.93
MW-3	04/26/94	113.90	10.97 11.21	102.93
	10/21/94	j	11.92	101.98
	01/18/95		8.90	105.00
	06/26/96		10.88	103.02
1	09/24/96		12.53	101.37
	12/11/96		8.17	105.73
	12/11/97		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

## TABLE 1 HISTORICAL GROUNDWATER ELEVATION DATA

## Autopro Facility 5200 Telegraph Avenue Oakland, California

PARTY CONTROL OF THE PARTY CON	Palife Market	Laitini.	e Pleomito Water Vicen	Ground:Water Elevation
MW-3 cont	06/28/02		10.76	103.14
	09/06/02		11.60	102.30
	01/06/03		9.41	104.49
	06/23/04		11.62	102.28
	09/22/04		11.93	101.97
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
	09/06/02		11.90	102.35
	01/06/03		9.25	105.00
	06/23/04		11.77	102.48
	09/22/04		12.15	102.10
MW-5	07/18/98	113.06	10.77	102.29
Į.	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
	09/06/02		11.10	101.96
	01/06/03		NA	NA
	06/23/04		NA NA	NA
	09/22/04		NA NA	NA NA
			HS III THE RES	CTT OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE PART
C∗3 MW-1	03/22/02	115.70	13.40	102.30
	03/22/02	115.02	10.34	104.68
MW-2	03/22/02	112.03	9.89	102.14
	06/23/04		12.11	99.92
MW-3	09/22/04	440.00	12.64	99.39
IVIVY-3	03/22/02	113.63	14.17	99.46
MW-5	06/23/04	146 70	15.40	98.23
Note:	03/22/02	116.70	14.71	101.99

Note:

ft AMSL = feet above mean sea level.

NA - Not Available - Well head covered with asphalt

Checked 6 A L
Approved 1

TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL DATA

## Autopro Facility 5200 Telegraph Avenue Oakland, California

Well (D)	Date Sampled	TPHON	e i d'alino:	outling.	Benzene.	«Toluëne	Ethylberizene	Total Xylenes	MIBER	VOC5	772	<b>4</b>	letals (m)	Trivilla (elle:	
			机的机器											- Pat - Bally All Pater Humbers Strong	MINISTER OF SPECIF BUILDING HOUSE
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
1 1	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	8.0	0.59	0.81	<5.0						
1	12/12/97	280	<250	360	<0.50	8.0	0.82	0.9	<5.0	j			-		-
4	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	<10				-		
	09/30/98	<50	<250	<50	<0.5	<0.5	<0.5	<0.5		-		-	-		
1	12/15/98	380	<250	560	<0.5	1.80	0.66	1.50		ļ					
	03/22/02	5,100	6,900	150	<0.5	0.90	<0.5	<0.5	<5.0			**		••	
1	06/28/02	590	260	560	0.54	1.60	<0.5	1.30	<5.0						
1 1	09/06/02	320	<250	330	<0.50	1.30	<0.5	<0.5	<5.0					••	
l	01/06/03	1,800	3,300	540	<0.50	2.20	<0.50	<0.50	<5.0					===	
1	06/23/04	330	<250	530	<0.50	<0.50	<0.50	<0.50	<0.50	ND*		***			
<u> </u>	09/22/04	410	<250	260	<1.0	<1.0	<1.0	<1.0	<1.0	ND*					
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	~			i		
	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	-					
	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	_					1
	09/30/98	<50	<250	<50	<0.5	<0.5	<0.5	<0.5						-	
<u> </u>	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	-			-	-	
1	06/28/02	410	660	<50	<0.5	<0.5	<0.5	<0.5	<5.0					-	
∦ Ì	09/06/02	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0				-		
	01/06/03	230	620	<50	<0.5	<0.5	<0.5	<0.5	<5.0				-		
	06/23/04	56	<280	<50	<0.5	<0.5	<0.5	<0.5	<0.50	ND*					
	09/22/04	95	<260	<50	<0.5	<0.5	<0.5	<0.5	<0.50	ND*	-				

TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL DATA

## Autopro Facility 5200 Telegraph Avenue Oakland, California

Well I.D.	Date Sampled	STERIOS.	ale line		sBenzenet	Joluenes	a dinvibenzane	Total Xylenes	SEMIRE A	LUVOGE &		rision and a	details (mg/	MISSING.	
450		anighter)	寒(60/10)**	(Lg/L)	(15 L);	<b>建 (10 L)</b> 基	- 1000/miles	esting/L)	gennerico.	<b>УК(ц</b> д/ц) »	cadmium	emembri	lead 🔩	nickel ≱	mezinos e
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	_	-				
1 1	09/24/96	2,600	290	4,800	12	11	18	43	42		<b>!</b> –				
	12/11/96	2,900	<250	6,700	20	19	32	44	70	_	-			i	
	12/12/97	3,300	<250	7,400	32	37	46	90	<160		i				
	03/23/98	1,900	<250	2,500	<0.50	3.2	3.5	7.7	<20						[ <del></del>
(Dup)	03/23/98	1,600	<250	2,400	<0.50	4.0	3.4	4.4	<18				<b>!</b>	-	
1 i	08/25/98				8.0	1.1	0.77	2.3	<10	_				1 -	
	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		<b> </b>	<del></del>				
	03/22/02	7,700	270	8,300	11	10	13	24	<25	-			_		
	06/28/02	6,900	<250	9,300	53	<5.0	11	23	<50	-					
	09/06/02	5,800	<250	9,900	61	10	20	46	<25					-	
	01/06/03	5,100	<250	6,300	<5.0	7.0	8.5	15	<50						
	06/23/04	600	<280	33,000	<5.0	<5.0	<5.0	5.6	<5.0	ND*		İ		ļ	ľ
	09/22/04	2,500	<260	13,000	<10	<10	<10	<10	<10	ND*					<u></u>
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			-			
	09/24/96	2,200	<250	5,300	<1.0	5.3	8.2	8.3	<35	i					- 1
(Dup)	09/24/96	2,200	<250	5,500	<1.0	6.6	9.4	8.4	<35			-			
II	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		-				
1 1	12/12/97	2,700	<250	3,100	<0.5	3.3	7.6	8.9	<41			_			
1	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	<30						
	09/30/98	1,700	<250	3,300	2.1	7.0	5.9	<0.5		<b>-</b>					
	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	<10			-			
	06/28/02	2,700	940	3,900	2.6	7.3	4.5	7.2	<10		_	-			
1	09/06/02	1,800	<250	2,500	2.7	4.2	3.2	5.7	<10	-					
1	01/06/03	2,100	370	2,500	0.69	2.4	1.7	1,4	<5.0		-	_			
	06/23/04	1,100	<250	1,700	<0.5	<0.5	0.67	1.2	<0.5	ND*					
<u></u>	09/22/04	1,600	<260	1,800	<5.0	<5.0	<5.0	<5.0	<5.0	ND*			45		

#### TABLE 2

#### HISTORICAL GROUNDWATER ANALYTICAL DATA

## Autopro Facility 5200 Telegraph Avenue Oakland, California

Well I.D.	Date Sampled	) #1940 #100/0	TEPE (no.	TP#6	Benzene	Toluene	Ethylbenzene	Total Xylenes	W.E.	.vvocs	oednibn.		Alle and Allegation		žino s
MW-5	07/18/98	3.800	ND	5,900	7.40	9.50	17.00	29.00	<60					-	
14144-5	08/25/98	2,800	<250	5,800	6.1	7.9	16	33	<70				l	ł	
	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	<10						_
	06/28/02	4,400	310	9,000	41	<5.0	8.2	19	<50						
	09/06/02	4,500	<250	7,600	43	<5.0	5.8	12	<50		-				
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				ļ	-	
	06/23/04			<50						<b>!</b> –				!	
	09/22/04		1	<50											
FIELD	03/22/02			<50	<0.50	<0.50	<0.50	<0.50	<5.0				<u> </u>		
	06/28/02			<50	< 0.50	< 0.50	<0.50	<0.50	<5.0	-					
	09/06/02			<50	< 0.50	<0.50	<0.50	<0.50	<5.0				ļ <b>-</b> -		
	06/23/04	<48	<240	<50	<0.50	<0.50	<0.50	<0.50	<5.0	ND*	**		<u>-</u>	<u> </u>	44
ATC CANTO	a de maria	COMPANY OF		· Other		era Aleen	CHEVRON	WELLS							120
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					<b></b>	
	06/23/04	110	<260							<del></del>				}	_
	09/22/04	74	<250	<b></b>						**		*-			
MW-3	03/22/02	-		7,600	<10	4.2	11	<25	<5.0		-				-
	06/23/04	1,200	<280												
MW-5	03/22/02	<50	<250	<50	<0.50	<0.50	<0.50	<1.5	<2.5						
MCL	all and a second	1177	The state has no	-V-24-551V	1.	150	300:>	± 241,750 ± ±	74418.3s	100	0.005 <del>%</del>	#>0:05±i×	0	c-0.1sc	5 *2.

Notes:

TPHd = Total Petroleum Hydrocarbons as Diesel.

TPHmo = Total Petroleum Hydrocarbons as Motor Oll.

TPHg = 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 84444. General Requirements, Table 64444-A

VOCs = Volatile Organic Compounds.

ND\* \* Not detected forall oxygenates

 $\mu$ g/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 anatyzed.

Approved\_

#### TABLE 3

#### **GROUNDWATER ANALYTICAL RESULTS - UTILITY TRENCH BACKFILL BORING**

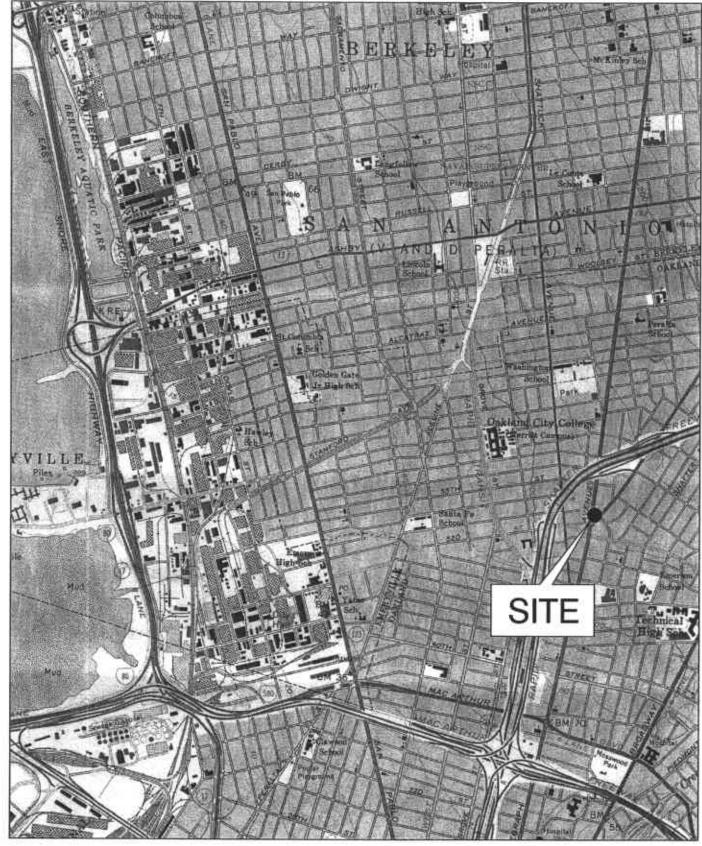
## Autopro Facility 5200 Telegraph Avenue Oakland, California

Biologia (B)	pare Sampled	# <b>***</b> #################################	(#7.18] (#6.2 (#1.18/11.)	######################################	Banzana (pg/F)#	adellejnea Lucio	T-164716(3162-1)(c)	TOTAL INVALIDATES	€1,719, <b>51</b> = 1 (2,0 <b>)</b> (1,0)	eOxyeconates Saektors
SB-1	08/07/04	29,000	<2,500	57,000	9.5	11	36	29	<5.0	ND*
-amelia	A 44 miles this	664.490	(0.00 P.C.)		nere l'actua	arsul 50 mas		1.7 <b>/5</b> 00 % *		

Notes:

TPHd = Total Petroleum Hydrocarbons as Diesel
TPHmo = Total Petroleum Hydrocarbons as Motor Olf
TPHg = Total Petroleum Hydrocarbons as Gasoline
MTBE = methyl tertiary butyl ether.
MCL = (Maximum Contaminant Level) ND\* = Not detected for all oxygenates
µg/L = micrograms per liter or parts per billion (ppb).
< = less than listed detection limits.

Checked SAL Approved B



20041006.1057

DRAWN: PH PROJECT NO: 4095041620 01

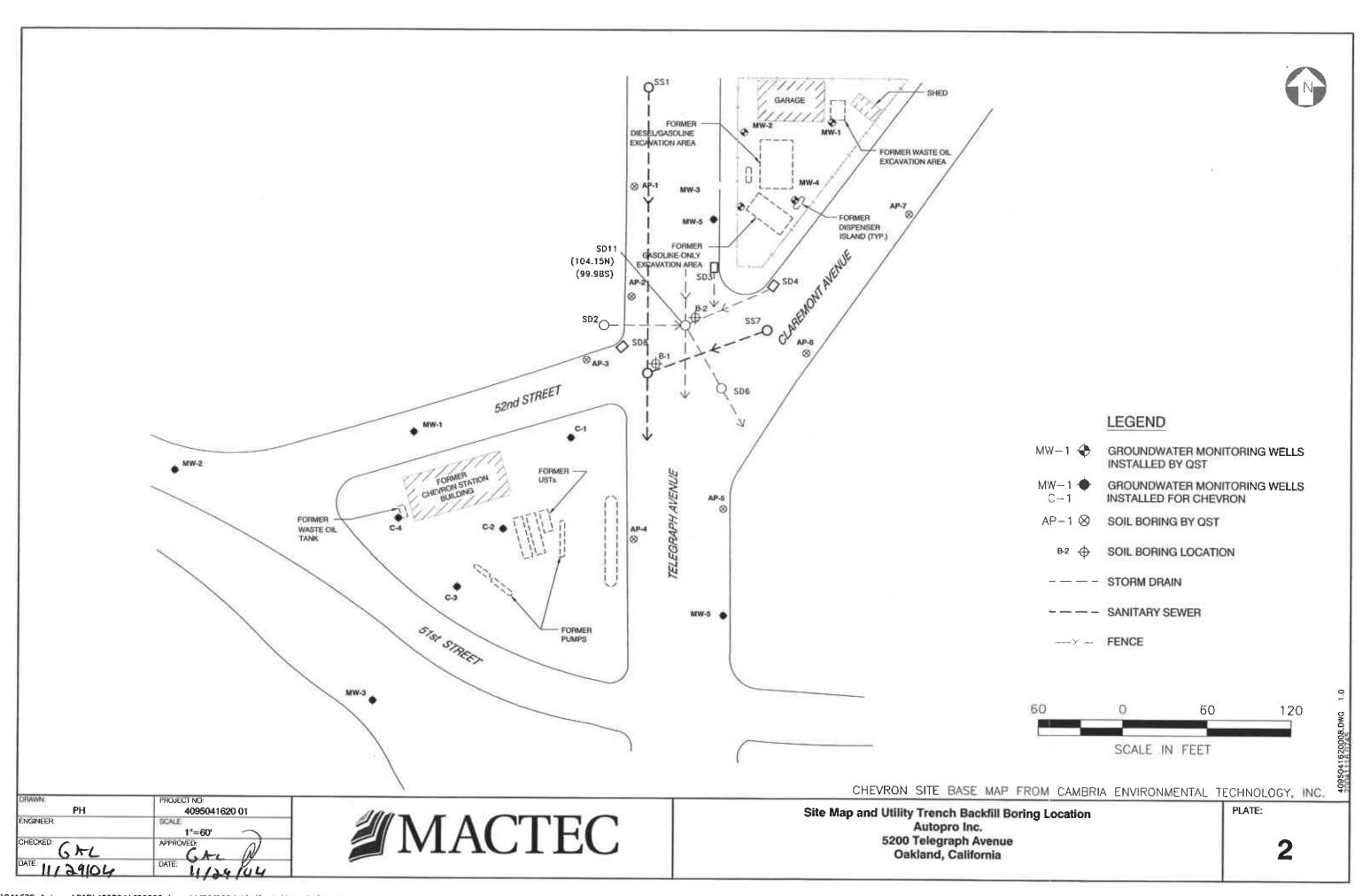
ENGINEER: SCALE: 1'=X

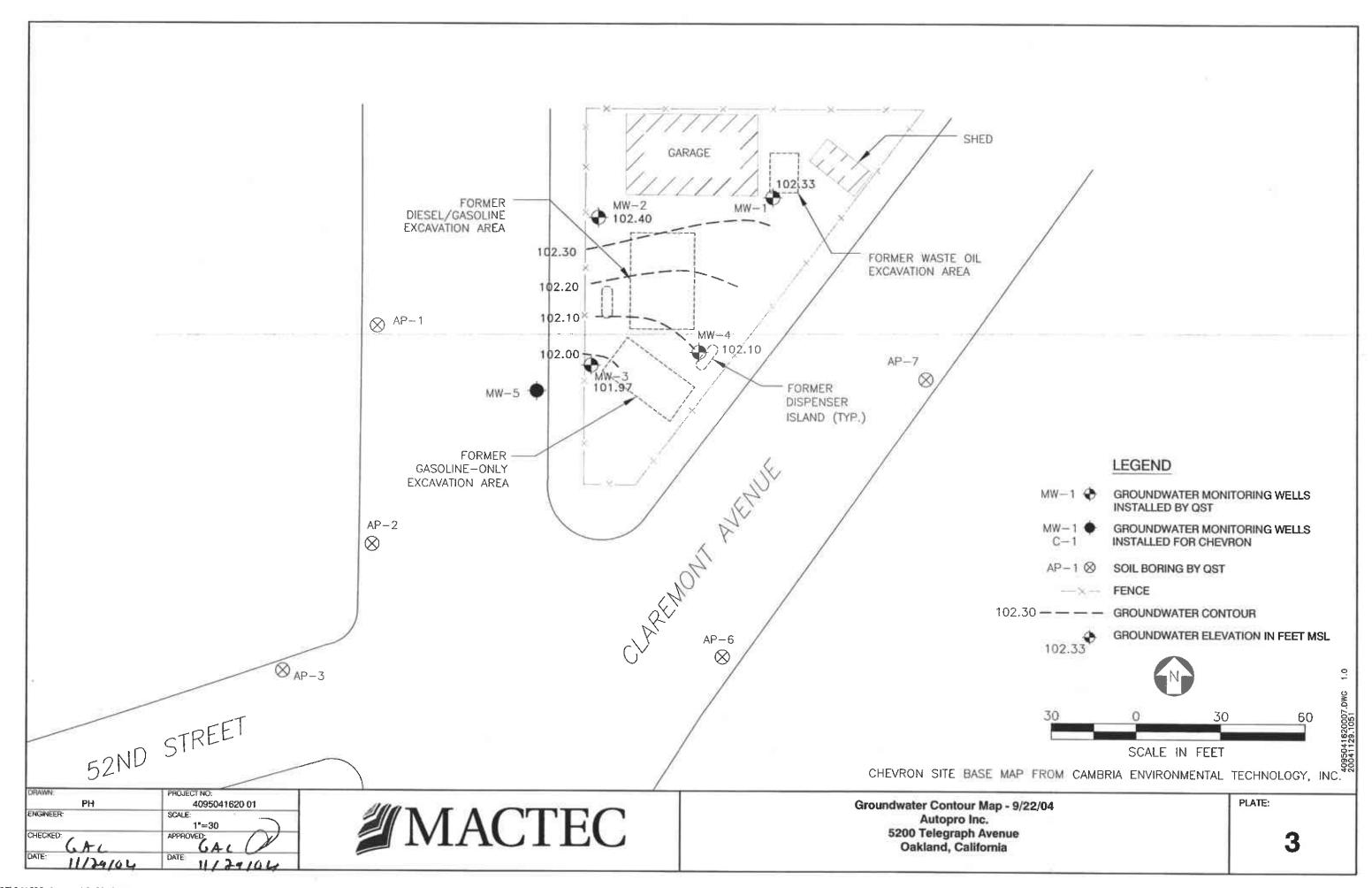
CHECKED AL APPROVED: AL DATE: 11/29/04



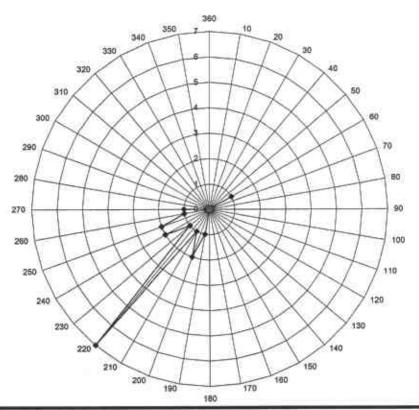
Vicinity Map Aoutpro Inc. 5200 Telegraph Avenue Oakland, California **FIGURE** 

1





# Autopro Facility Water Direction Frequency April 1994 through September 2004



#### Explanation

This graph shows the number of events groundwater flowed in a particular direction



Engineering Rose Diagram
and Groundwater Direction Frequency
Construction, Inc.
Autopro Facility
Oakland, California

 DRAWN BY
 JOB NUMBER
 DATE

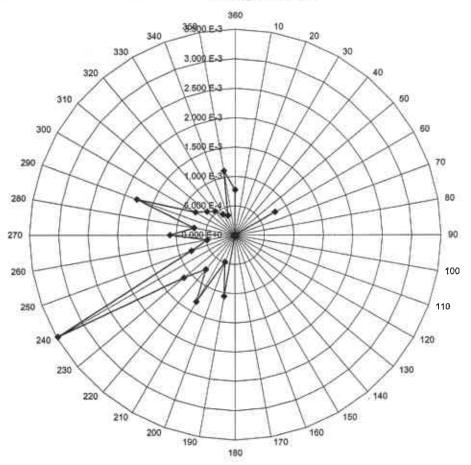
 MBP
 4095041620 01
 10/04

4

PLATE

GAC 11/27/0

## **Autopro Facility Water Direction Gradient** April 1994 through September 2004



Explanation This Graph shows the gradient magnitude of each monitoring event



Engineering and Consulting, Inc. Rose Diagram

**Groundwater Direction Gradient** 

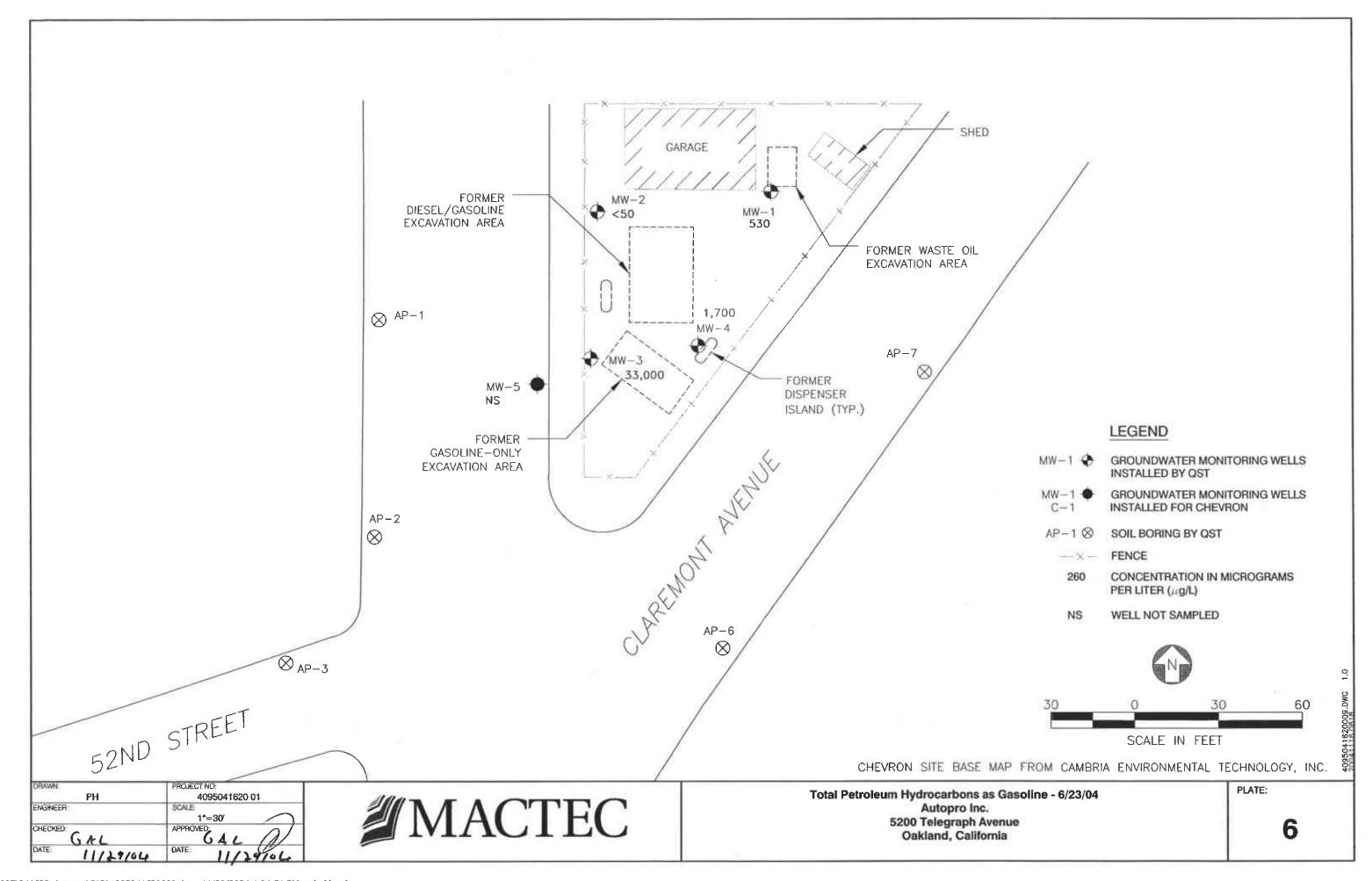
Autopro Facility

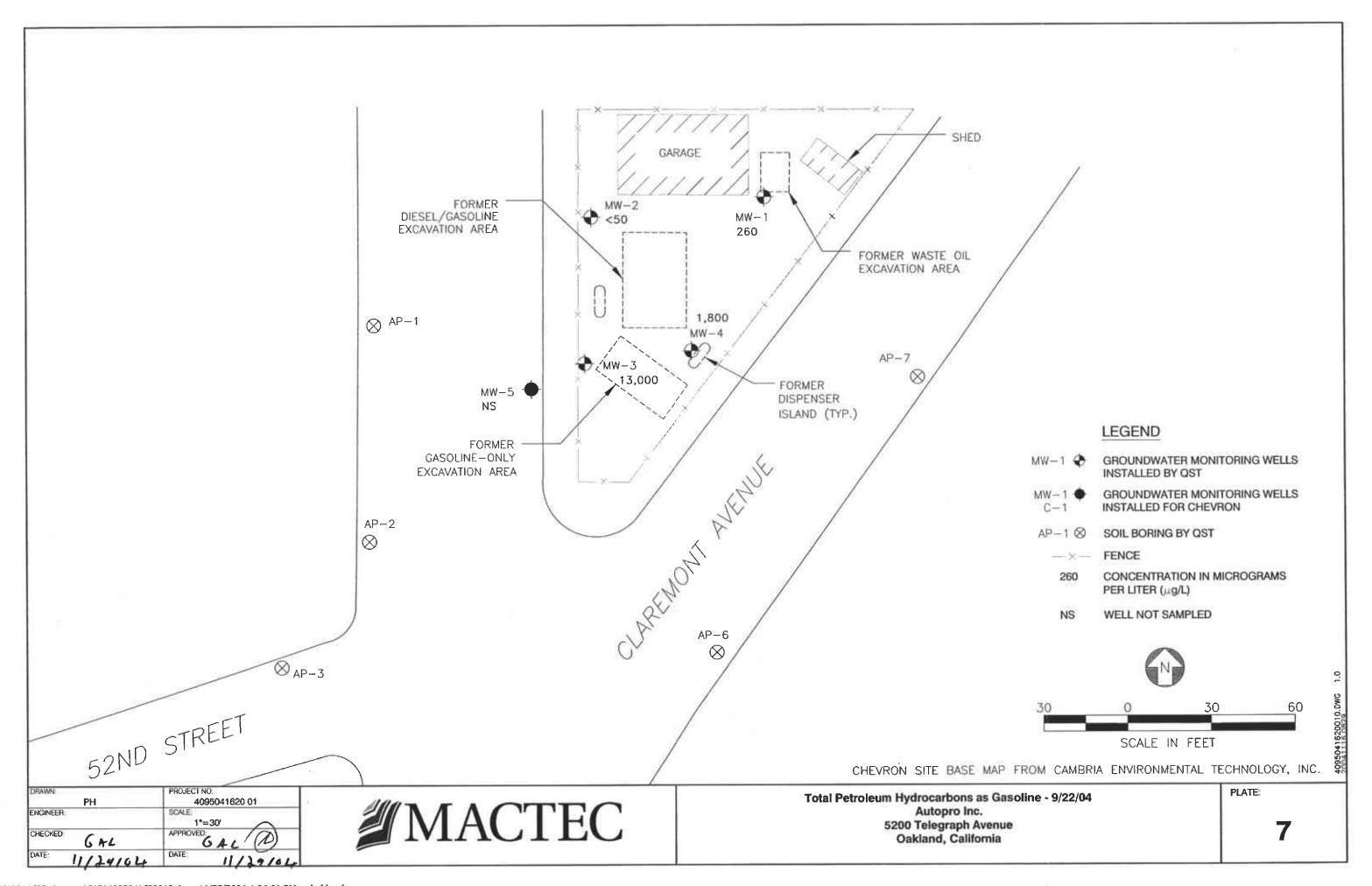
Oakland, California

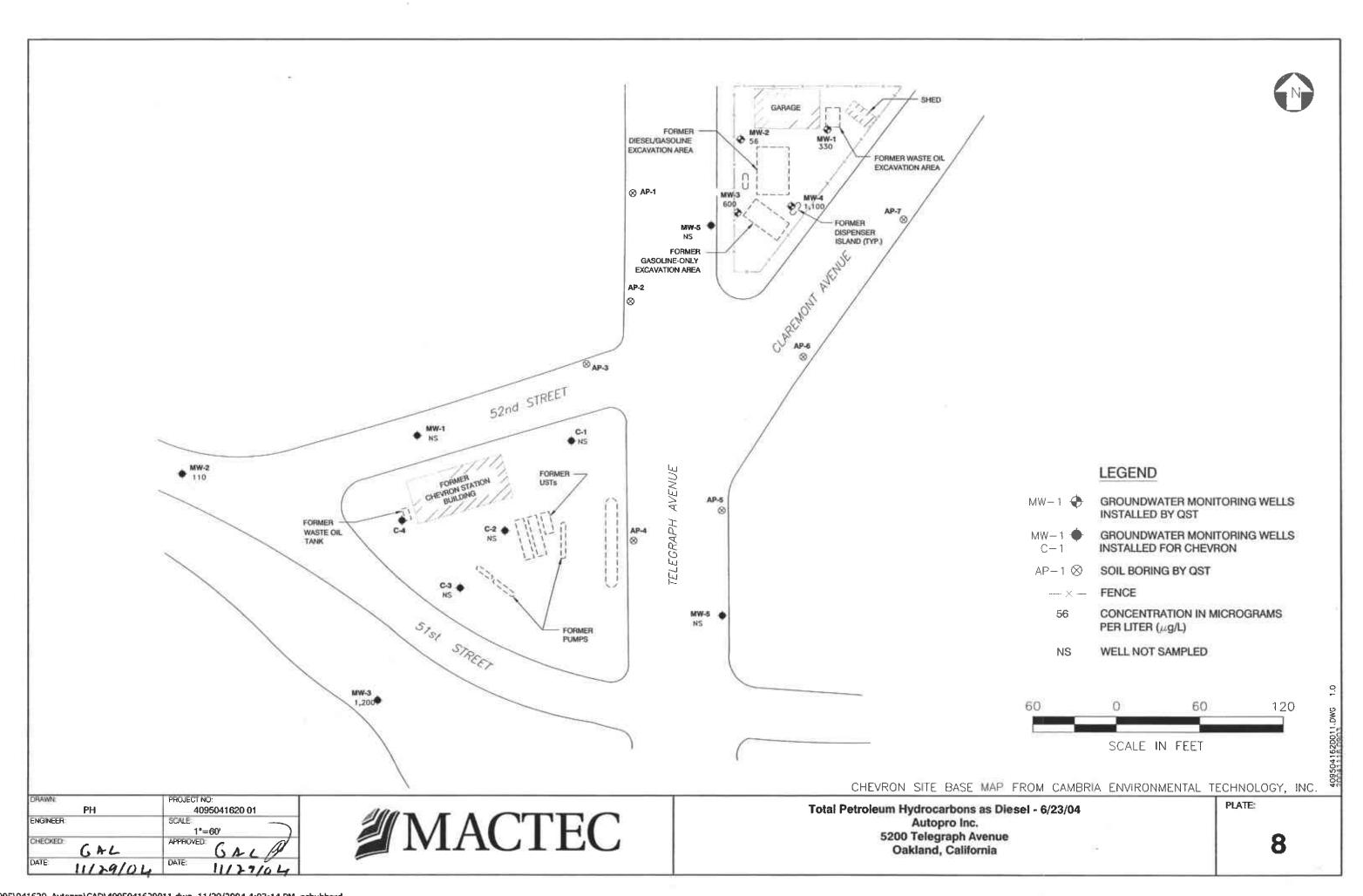
DRAWN BY JOB NUMBER DATE 4095041620 01 10/04

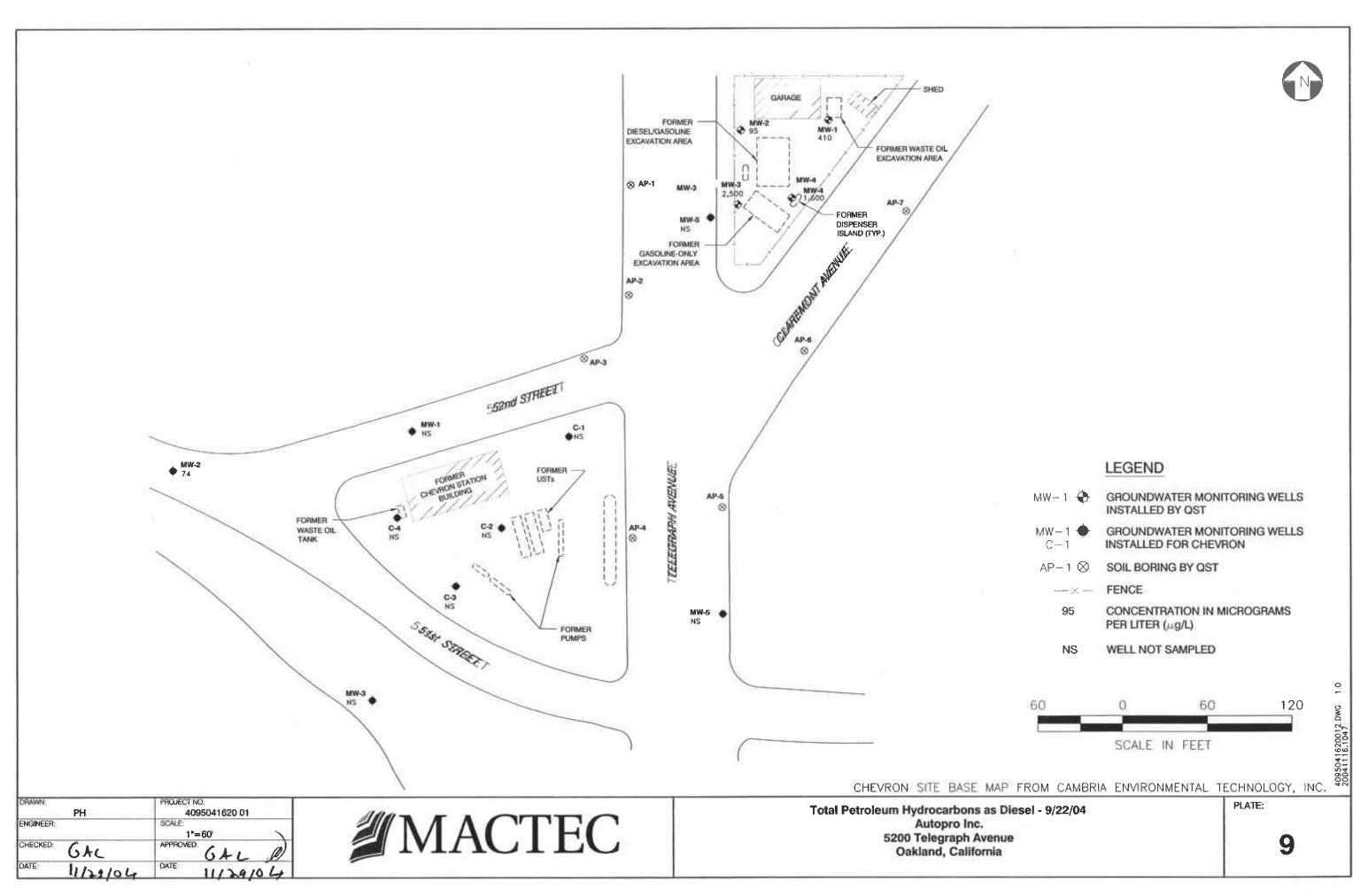
Approved GAC 11124164

PLATE









**APPENDIX A** 

**WELL SAMPLING FORMS** 

**Groundwater Sampling Forms** 

June 2004



	/ <del>* * * *</del> *				Well Numbe	r:	MW-1	
					Well Type:	X Monitor	Extraction	Other_
Job Name:		AutoPro				X PVC	St. Steel	Other
Job Number	:	40950416	20. 01		Date:	6/23/	04	
Recorded By	/: <u>D</u>	vid 3 con	n		Sampled By		DSB	
	74 74	(Sig	(nature)				(initials)	<del></del>
e e e		1,21	3 <b>14 (4</b> ) (3) (5)	-WELLTPURG	ING:			Services
4.4	PURC	EVOLUME .	th <b>Hile</b>	- <b>164</b> (* 18		* - ØEURGE	METHOD 4.82	(Jaka je kaji
	neter (D in in		2		X Bailer - Type:	PVC		
		D in ft BTOC): in ft BTOC):		_	Submersible -	Туре:		
		be purged (# V	1255		Other - Type:	·-··········		
		• • •				PUMPINTA	E SETTING :	***
48.44.4 A	PURGE VOLL	IME CALCULATR	ON THE STATE OF	40 3 <b>44</b> 33 -	Near Bottom		Near Top	
			XX. 2	20.7%	Other			
25.0 -	12.55 X	<u><b>2</b></u> 2 X 3 X 0.04	<u>حاريا</u> = 80	gals	Depth in feet (BT)	)E):		
TD (feet)	WL (Feet)	D (înches) #V	Cal	culated Purge Volume	Screen Interval In	· ·	from	to
and the state of t		QS MANY MARKET LANG.	in young power and a	TG.				
0.4	Eed Param	eter Measuremer						
Gallons or Minutes	nLI	Conductivity		Turbidity	PURGE TIME &	-	PURGERA	TEAP 7 SA
Initial	6,56	(µS)		. (=/	Purge Start:		GPM:	
	T ' -	407.45	18.9	364	,	005	GPM:	<del>/</del>
<u>Z</u>	4,40	393	19.5	160	Elapsed:			
<del>7.</del> –	4.77	389900	1 -	97.4	PURGENOLUME	120.1921		
6	6.11	404	18.9	125	Volume: ——	4.0	– gallons	
					Discharge Water	Jray Disposal:	Sanitary Ser	wer :
vieter S/N	DB03	1394	1394	9092	Storm Sewer	• • • • • • • • • • • • • • • • • • • •		rumon
				No company of the			•	
<u>                                     </u>	<b>水</b> 前			WELL SAMPL				
Bailer - Type		Disposable		_	Sample Time:		· · · · · ·	
Sam 28 <b>N/4) O</b>	ple No.	Volume/Cont. 6 VOAs		ysis Requested X,MTBE,TAME, ET	Preservativ	es Lab Sequoi		nments
<u> </u>	105	<u> </u>	<del></del>	DB, TBA, Ethenal	IDE, NOC	Sequo	la l	
1	-	2-1 Lt AmbG	<del> </del>	l d, M.O.	none			
					<u> </u>	-		
	_							
			-	7707	-		•	
			OIL	ALTEK CONTROLS	SAMPLES			
	Duplicate Samp		Carrielle at the Telling of Carrielle		Samples		Other Sam	22.11.00.2.10.00.00.00.00.00.00.00.00.00.00.00.00.
Original Sample No. Dupl. Sample No. Type				Sample No.	Туре		mple No.	
	:		] [					-
	:		<u> </u>	V-4		-		
			_		!	1		

Reviewed by: GAL Date: 119/04



Well Number:

MW-2

					Well Type:	X Monitor	Extraction	Other
Job Name:		AutoPro				X PVC	St. Steel	Other
Job Number:	<u> </u>	40950416	20. 01		Date:	6/23/0	)4	
Recorded By	r: Da	ord Beogs	nature)		Sampled By:		DSB (initials)	
				-WELL PURG	NG & La SE			
TENOOS	- A-MPURGE	VOLUME		NAME OF STREET		*** PURGEN	Erkobe-eriz	
	neter (D in inc		2		X Bailer - Type:	PVC		Committee Agents (1977)
	of Casing (TE				Submersible - T	ype:		
	Depth (WL in Volumes to be		<u> </u>		Other - Type:		<u> </u>	
			W.L.H.			EPUMP INTAKE	SETTING SALES	
A Market	PURGE VOLUM	MÉ CALCULATIO	ON PARTIES A	x 作為物.而各	Near Bottom	/ [	Near Top	
_		•	_		Other			
	11.40)×_3		08 = <b>( ,4</b>	gals	Depth in feet (BTO	·		
TD (feet)	WL (Feet) D	(inches) #V	Cal	culated Purge Volume	Screen Interval in f	eet (BTOC):	from	to
-12.55 <b>(</b> 106)	Field Parame	ter Measuremer	i i i					
Gallons	- Ambaran Andrews	Conductivity		Turbidity	PURGE HME 2		PURGE RATE #	
or Minutes	pН	(µS)	Temp. □ °F	(NTU)		<u>00</u>	_ GPM:	
Initial	434	36945	19.9	4.85	Purge Stop:	120	GPM:	
2	6.75	363	19.8	71000	Elapsed:	<u> 2</u> 0	<del></del>	
4	664	342	19,9	7/000	PURGE VOLUME			
0.5	4.62	360	19.9	21000	Volume:	1-2	gallons	
				<i></i>				
·							Condition, Color, Odo Sh brown	
				· · · · · · · · · · · · · · · · · · ·	odorles		sheen	
				1	Discharge Water D		Sanitary Sewer	
Meter S/N	D803	1394	1394	9092	Storm Sewer		Other Drum	con Si
	100	(2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		WELLSAMPL	ing Fig. 15.			
Bailer - Type	e:	Disposable		-	Sample Time:	112	5	
	ple No.	Volume/Cont.		ysis Requested	Preservative	s Lab	Comment	s
0428 M	D 0204	6 VOAs		X,MTBE,TAME, ET DB, TBA, Ethenal	BE, HCL	Sequoia		
U72U · ·		2-1 Lt AmbG	TPH d, M.O.	DD, TDA, Culpilal	none			
						•		
	· · · · · · · · · · · · · · · · · · ·							
	2 7 2421 1410		, <b>, , , , , , , , , , , , , , , , , , </b>	ALITY CONTROLS	September 1970 Co. Co. St. St. St. St. St. St. St. St. St. St	980 <u>0</u> 76		
Criginal Sample	Duplicate Sample No. Di	es upl. Sample No.		Blank : pe	Samples Sample No.	Tuna	Other Samples Sample	No
Sugnal Campit	5 , 10. <u>D</u>	api. Cample 140.	j     ''	<u> </u>	оапри по.	Туре	Sample	140.
			-					

Reviewed by: 6 1/2 Date: 7/9/04



	TATT	1 <b>0</b> 1 .			Well Numb	er:	MW-3	
			•		Well Type:	X Monitor	Extraction .	Other_
Job Name:		AutoPro				X PVC	St. Steel	Other
Job Number:		409504162	20. 01		Date:	6/23	J 04	. —
Recorded By:	The same	nd Bron			Sampled B		DSB	
		(Sign	nature)	<del></del>			(initials)	
家。(4. <b>00%)</b> 第85-2				West Beingell	iG, <sub>We</sub> . 25			
A Market	, F. PURĞE	VOLUME 2				PÙRG	ĖMĖTIOO MAŠĖ	
Casing Diamet			2		X Bailer - Type:	PVC		
Total Depth of			14		Submersible			
Water Level D No. of Well Vo			4.62		Other - Type:			
140. 0. 110.1 10		s pargoa (ir 1				PUMPINTA	KE SETTING	
	IRGE VOLUM	ME CALCULATIO	n i *#:48		Near Bottom		Near Top	
		and the Comballion of the Comballion			Other			
14.0 - 11	.62)x_2	<u>2</u> 2 X 3 X 0.040	1.Z	_ gals	Depth in feet (19/1	OC):	eriaen.	<u> </u>
		(inches) #V		cufated Purge Volume	Screen Interval i		from	to
	2000 000 000		MANAGEMENT OF THE STATE OF THE	1				
	Field Paramet	er Measuremen					Budgas discodo: ST254.7	
Gallons	-14	Conductivity		Turbidity	PURGETIME	1754	PURGE RA	E###
or Minutes	pH / 13	(μS)			Purge Start:	1215	GPM: GPM:	
	4 12	57aus	Zi.Z	24.3	Purge Stop:	1013	GPM:	
1/2gall	47	563	_		Elapsed:		<del></del>	
1500	<u>45</u>	567	Corb	>1990		20		
1.594	4.55_	513	Zho	7,555	Volume: —		— gallons	
					Ot	orio e December (14	dell Candillan Cala	n Odani.
					, ,		Vell Condition, Colo	
					Cloudy	anve	gray s	heen on Sur
					Discharge Wate	r Disposal:	Sanitary Sev	heen on Sur
Meter S/N	DB03	1394	1394	9092	Storm Sewer		$\nabla$ Other $\mathcal{D}_{0}$	rum on site
								12/2017
		n destabli		WELL SAMPL				
Bailer - Type:		Disposable		_	Sample Time	); 	1220	
Sample		Volume/Cont.		ysis Requested	Preservat			nments
0428 MWO	305	6 VOAs		X,MTBE, TAME, ET	BE, HCL	Sequ	1018	
		2-1Lt A.G.		TPH m.o.	none	7	-	-
	****							·—·
						····		
				ALITY CONTROL	SAMPLES	- 144 T		
	plicate Sampl				Samples		Other Sam	<del></del>
Original Sample I		upl. Sample No.		ре	Sample No.	Туре	_	emple No.
			<del> </del>					
<b></b>			1	•		$\dashv$		

Reviewed by: 6 1/2/04



	TATT.				Well Number	:	MW-4	
					Well Type:	X Monitor	Extraction	Other_
lob Name:	-	AutoPro		<del> </del>		X PVC	St. Steel	Other_
ob Number:		40950416	20. 01		Date:	6/23	/ 04	
Recorded By:	_Da	wil Bu	nature)		Sampled By:		DSB (Initiate)	
			1. 18 B.	WELL PURG	NG C			evan A
re <b>ndy</b>	'- :: PURGE	VOLUMĚ	16. 2.52 <b>4</b> 2.			PURGE	METHOD	*WK/= 941
Casing Diam	eter (D in inc	hes):	2		X Bailer - Type:	PVC		
	of Casing (TD				Submersible - T	уре:	<del></del>	
	Depth (WL in olumes to be		11.73		Other - Type:			
					in to Account	PUMP INTA	KE SETTING	hid in d
1. APR	PURGE VOLUN	IE CALCULATIO	NC NC		Near Bottom		Near Top	
					Other			
<u> 15.5 - </u>	<u>ルラブ</u> )× <u>と</u>	_ 2 X 3 X 0.04	08 = <b>( · B</b>	_ gals	Depth in feet (BTO	C):		
TD (feet)	WL (Feet) D	(inches) #V	Calc	ulated Purge Volume	Screen Interval in f	eet (BTOC):	from	
	Field Paramet	er Measuremer	ı e					
Gallons		Conductivity		Turbidity	PURGE TIMES	75 IZ5<	PURGERA	E a
or Minutes	рН	(μS)	Temp. 🔲 °F	(NTU)	Purge Start:	300	GPM:	
Initial	6.15	41844	22.2	13.9	Purge Stop:	315	GPM: 🖊	
.5	6.32	490	21.5	121	Elapsed:	15	<del></del>	
1	6.49	491	21.0	109	PÜRGE VOLÜME			
1.5	4,50	494	261	533	Volume:	210	— gallons	
7.0	6.53	498	21,3	49;4				
					Observations Duri	ng Purging (W	ell Condition, Colo	r, Odor):
					Cloudy	brown	2 Shan	<i></i>
					hydro ca			o Shu
					Discharge Water D	Disposal:	Sanitary Sev	ver
/leter S/N	DB03	1394	1394	9092	Storm Sewer		XOther Dr.	mon s
	30 i i	\$2.00 Est \$1.00		WELL SAMPL	JNG (Syr. 28)			45.55.57
Bailer - Type	e:	Disposable		-	Sample Time:	_133	o	
	ple No.	Volume/Cont.	1	sis Requested	Preservative	es Lat	) Cor	nments
428 M いる	404	6-VOAs	<del></del>	K,MTBE, TAME, E		Seque	oia	
					1 1			
	<b>.</b>	2-11 AG	DIPE, TBA, EI		Tone Tone	<b>J</b> -		
1	b	2-1Lt AG		TPH m.o.	none	<b>_</b> _		
		.,				<u> </u>		
1		.,				J		
		.,				1		
		.,				1		
		.,				<b>1</b>		
		.,				<b>L</b>		
		2-1Lt AG	TPH d.	TPH m.o.	none			
AND REAL PROPERTY.		2-1Lt AG	TPH d.	TPH m.o.	none SAMPLES			
	Ouplicate Sampl	2-1Lt AG	TPH d.	TPH m.o.  ALITY CONTROL  Blank	SAMPLES:		Other Sam	ples
[	Ouplicate Sampl	2-1Lt AG	TPH d.	TPH m.o.  ALITY CONTROL  Blank pe	SAMPLES Samples Sample No.	Туре	Other Sam	
Section of the sectio	Ouplicate Sampl	2-1Lt AG	TPH d.	TPH m.o.  ALITY CONTROL  Blank  pe	SAMPLES:	Type 134	Other Sam	ples

GKZ 7/9/04



				weii number:		CHIMIAA-	<u></u>
Andr Alleren		Asst - Door			X Monitor	Extraction	Other
Job Name:		AutoPro		]	X PVC	St. Steel	Other
Job Numbe	r:	40950416	20. 01	Date:	6/23/0	14	
Recorded B	y:	kund	nature)	Sampled By:		DSB	<u>.</u> ,
		(OE		7. 3. 2. 1923.		(initials)	
			WEUL PURG				
	PURG	The state of the s		ar land come in	The second second	EHOD	
	meter (D in ind of Casing (TI		7401	X Bailer - Type:	PVC		
Water Leve	Depth (WL i	n ft BTOC):	13.11	Submersible - Type:	<del></del>	<del></del>	
No. of Well	Volumes to b	e purged (#V	3				
				Carrie 1	UMBANTAKE	SETTING: ::	
· 学习基果。	PURGE VOLU	ME CALCULATIO	N · · · · · · · · · · · · · · · · · · ·	Near Bottom		Near Top	•
740 -	12 (17	, ,	C 0	Other			
	1341)×2		-	Depth in feet (BTOC)			
TD (feet)	WL (Feet) [	) (inches) #V	Calculated Purge Volume	Screen Interval Afee	t (BTOC):	from	to
	Field Parame	ter Measuremen					
Gallons		Conductivity	▼ °C Turbidity	PURGE TIME	<u> </u>	PÜRGE RAT	
or Minutes	pН	(μS)	Temp. □ °F "(NTU)	Purge Start: 06	<u>ቅ</u> ም	_ GPM:	
Initial	5.95	337.145	18.0	Purge Stop: 07	05	GPM:	/
2	6.49	335,1	18.7	Elapsed:	lo	_	
4	4.53	333,0	189 71060	PURGEVOLUME			
60	6.59	329.8	16:1 >1000	Votume:	uO	gallons	
				Observations During	Purging (Well (	Condition, Color	, Odor):
		-		Cloudy		4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	dus
	<u> </u>	-		_ odovles	- M6	Sheer	
Meter S/N	DB03		· · · · · · · · · · · · · · · · · · ·	Discharge Water Disp	oosai:	Sanitary Sew ∕`lov	
THOUGH CHA	DB03		9092	Storm Sewer	` _``	Other	)rum on site
7.2. 1.3.			WEILISAMPLI	NG 🛂 🗼 . i 🦠	•	**************************************	99745
Bailer - Typ	oe:	Disposable		Sample Time:	<i>6</i> -	210	
	iple No.	Volume/Cont.	Analysis Requested	Preservatives	Lab		ments
428 C NOL	01	2-1 Lt AmbG	TPH d, M.O.	none			
	· · · · · · · · · · · · · · · · · · ·		*			<del></del> -	
					<del></del>	<del>                                     </del>	·
	····						
			-				
					<del> </del>	<del> </del>	
	<del> </del>				1		
					-		
V-1646-4			QUALITYCONTROLS	AUP ES	o de la composición della comp		
11111111111111111111111111111111111111	Duplicate Sample	TO THE PARTY OF TH	Blank S			Other Samp	
Original Sampl		upl. Sample No.	Туре	Sample No.	Туре	•	nple No.
	:				<b> </b>		
					<del>                                     </del>		

Reviewed by: 6 A L Date: 7/9/04



					Well Number	:	CHM	W-3	
					Well Type:	<b>X</b> Monitor	Extraction	on Other	r
Job Name:		AutoPro				X PVC	St. Stee	I Othe	•
Job Number		40950416	20. 01		Date:	6/ <b>Z3</b> /	04		<del></del>
Recorded By	r: <b>_</b>	Saved 3	course		Sampled By:		DSB		
		(Sig	nature)				(initials)		
			i i	WELL PURGI	NG 📑	1 - V. + X.	A PART FOR		
	iet sprung	ENOLUME E		<b>V</b> eriginal de la companya de la com		PURGE	METHOD :		
Casing Dian	neter (D in in	ches):	2"		X Bailer - Type:	PVC			
Total Depth	of Casing (T	D in ft BTOC):	26.5		Submersible - T	ype:			
		in ft BTOC): be purged (# V			Other - Type:				
140. UI 44 GII	Volumes to b	e baigea (# v	<u>_</u>		(1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%) (1.5%)	PUMP INTAK	E SELLING		24
	PURGE VOIJ	ME GALGULATIC	N State	rets.	Near Bottom		Near To		
								P	
26.5 -1	5.4 )x	<b>Z</b> <sup>2</sup> X 3 X 0.040	08 = <b>5.4</b>	gals	Other Depth in feet (BTO	C):			
TD (feet)		D (inches) #V	·	ulated Purge Volume	Screen Interval in f		from	to	)
				-					
100	Eleid Parame	ter Measuremen	t <i>ij</i> (32. j						
Gallons		Conductivity	∑°C	Turbidity	PURGETIME-		PURGE	RATE ( )	
or Minutes	pΗ	(μS)	Temp. ☐ °F	(NTU)	Purge Start: 08		GPM:	$-\!\!/-$	_
Initial	6,38	182-us	16.8	128	Purge Stop:	870	GPM:		_
2	6.53	463	18.9	253	Elapsed:		_		
4	4.60	484	12.0	24(	PURGE VOLUME				
5.5	6.59	484	19.0	113	Volume:	7.	- gallons		
• •	·				Observations Durin	na Puraina (We	Il Condition (	Color, Odori	
					000017001100110	ري. الد. هم ا	& ~4 =	- 1 - · - ·	
		-			Sleet to the	hadae	24 604	Codence =	- Na She
					Discharge Water D	isposal:	Sanitary	Sewer	<u> 70</u> 0 +
Meter S/N	DB03			9092	Slight Discharge Water D Storm Sewer		Vother	Num	~ ~ <del>~</del> <del>+</del>
All Sales and Sales and					THE CONTRACT OF THE PARTY OF TH	POLICE SPECIAL			
		estate i i i i i i i i i i i i i i i i i i i	19	WELL SAMPL	ING		14.5/14.5/2		
Bailer - Typ	e:	Disposable			Sample Time:				
Sam	ple No.	Volume/Cont.	Anal	ysis Requested	Preservative	s Lab		Comments	
428 CHO3	<u>5</u>	2-1 Lt AmbG	TPH	d, M.O.	none	Sequoi	a		
		<del></del>							
		•							
									_
				A 1877					
					-				
i i Na	sety switch in			ALITY CONTROLS	SAMPLES		34. L. T. W.	# 1 2 1 3 <del>3</del> 3	
	Duplicate Samp			the state of the s	Samples			amples	VINE NASCH
Original Sampl	•	Dupl. Sample No.	]	ре	Sample No.	Туре		Sample No.	
	i								
	•		-				· · · · · · · · · · · · · · · · · · ·		
						1			

Reviewed by: 6 KL Date: 7/4/04 **Groundwater Sampling Forms** 

September 2004



_					wen number:			IALAA - I	
					Well Type:	X Mo	nitor [	Extraction	Other_
ob Name:		AutoPro				X PV	L.	St. Steel	Other_
ob Number	:	40950416	20. 01	<del> </del>	Date:	9/-	9122104		
ecorded By	r Da	vid Zig	nature)	<del></del>	Sampled By:			DSB (initials)	
		(Oly	паше)			Erdinsi		(initials)	Son and we see
oe yw	i de mice e filli			WELL PURGI	<b>VG</b> THE CONTROL OF T		194,375		der (F. C. No.
A Maria Take System yang Pinan		EVOLUME * * *	EAST DESCRIPTION OF THE PROPERTY OF THE PROPER					ETHOD) = '+-	
	neter (D in in of Casing (T	ches): D in ft BTOC):	25		X Bailer - Type: Submersible - Ty	<u>P\</u>	'C		
	Depth (WL		73.Ti		Other - Type:	/pe:		THE PARTY OF THE P	
		oe purged (#V	3					λ.	
					10000000000000000000000000000000000000	PUMP	INTAKE	SETTING	<u> </u>
e <b>s</b>	PURGE VOLU	ME CALCULATIO	jn +¢		Near Bottom	-		Near Top	
2	D	2 2 X 3 X 0.04	50		Other				
	• • •			gals	Depth in feet (BTOC Screen Interval in fe		AC):	from	<u></u>
TD (feet)	WL (Feet)	D (inches) #V	Cai	culated Purge Volume	Screen mervas in ie	et (BTC	rC).		to
E 20, 1706 (1905), Y	Field Parame	eter Measuremen	it 🤼 ,	V 6					
Gallons		Conductivity	V °C	Turbidity	PURĞE TIME	Ø <sub>F</sub> .		PURGERAT	E EMS
or Minutes	pH	(μS)	Temp. □ °F	<del>  ` '  </del>		850		GPM:	
Initial	4.32	47445	19.7	303.0	Purge Stop:	1910	<b></b>	GPM: 📈	<u> </u>
	0.45	428	20.7	386	Elapsed:	20	<u> </u>	-	
4	4.54	420	20.5	>/000	PURGE VOLUME	<u></u> 6	0		
_Q	4,55	415	20.5	700	Volume: ——	•	·O	gallons	
			<u> </u>			-			
					Observations During		_		
					Cloudy			ush bra	
					Discharge Water Di	Nyd soosat:	10-	Sanitary Sew	<u></u>
eter S/N	DB03			9092	Storm Sewer		Ė	Other	-
ared a second	n de de la compansión de la compaña de la co					a Ansenius S	L	- 1 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
MCCL			CONTROL OF THE PARTY OF THE PAR	WELL SAMPL	NG STATE			- 1977 - 12 MEY	
Bailer - Typ	e:	Disposable		_	Sample Time:		091	5	
Sam	ple No.	Volume/Cont.	· <del>                                     </del>	lysis Requested	Preservatives		Lab	Сот	iments
459 6	002	6 VOAs		X,MTBE,TAME, ET	BE, HCL	- 1	Sequoia		
	· · · · · · · · · · · · · · · · · · ·	2-1 Lt AmbG	<del></del>	d, M.O.	none				
						-			-
	·								
	<del> </del>		1			+			
	r and Brothers			ALITY CONTROL S	AMPLES				
Apr. 1 and 1 1 1 Apr. 1 1 2 2 2 2 1	Duplicate Samp				Samples		1.24.4.195	Other Samp	oies
riginal Sampl		Dupl. Sample No.	] [Ty	/ре	Sample No.		Уре		mple No.
	· · · · · · · · · · · · · · · · · · ·	m	<b>∤</b> ⊢			$\mid \mid$		· · · · · · · · · · · · · · · · · · ·	•
			<b>!</b> ⊢		·	<b> </b>			

Reviewed by: GAL
Date: VOID 4



Well Number:

MW-2

					Well Type:	X Monitor	Extraction	Other		
Job Name:		AutoPro		· · · · · · · · · · · · · · · · · · ·		X PVC	St. Steel	Other		
Job Number:		40950416	20. 01		Date:	91221	9/22/04			
Recorded By	ص :		nature)		Sampled By:		DSB (initials)			
	st. <sub>is</sub> rests		Nedorin	-WELL PURG	ING TELL					
7987 E#	PURCE	VOLUME'.***		* White is you	C 1 6 62 5 67 11	PURGE	METHOD :			
	eter (D in inc		2	- 6 mu <sub>r</sub> ecupet, bosconet i juliu - si	X Bailer - Type:	PVC	naus Antonio Como de la mestra de la Capación de la mesta de la como de la como de la como de la como de la co	and an expension of the control of the control of		
		) in ft BTOC):			Submersible - T	ype:				
	Depth (WL in olumes to be	e purged (#V	17.72		Other - Type:					
		,			A Charlest Annual Con-	PUMP INTAK	E SETTING : .:			
MERZEL SOF	PURGE VOLUM	ME CALCULATIO	N <sub>are</sub> Sig	Note that the Party of	Near Bottom		Near Top			
0	<b>.</b>				Other					
		2 X 3 X 0.040		_~	Depth in feet (BTO	·		<del></del>		
TD (feet)	WL (Feet) D	(inches) #V	Cato	ulated Purge Volume	Screen Interval in f	gent (BTOC):	from	to		
in in	:Trield Paramel	er Measuremen	<b>t</b> ogažinė							
Gallons		Conductivity	_	Turbidity	PURGE TIME		PURGE RA	<b>IE</b>		
or Minutes	pH	(μS)	Temp. ☐ °F	(NTÚ)		955	GPM:			
Initial	1.15	380US	21.7	12.7	Purge Stop:	10	GPM:			
<u></u>	U.52	368	20,6	>1000	Elapsed:	15	_			
12	1.23	366	26.9 21.0	>1000	PURGE VOLUME Volume:	65	- gallons			
0.	0.22	<b>J.</b> U	21.0	>(000	voidille. ——		- gallons			
					Observations Durin	ng Purging (Wel	l Condition, Cold	or, Odor):		
					Cloudy	Yellown	sh bro	un		
					odorles		Shaun Sanitary Ser			
Meter S/N	DDA			0000	Discharge Water D	isposal:				
Meter S/M	DB03	Thi Sikit do indictions		9092	Storm Sewer		X lower Do	um on site		
			45 (PS) M (A) (25) (S)	WELL SAMPI	ING S					
Bailer - Type	e:	Disposable			Sample Time:	1010				
Samp	ole No.	Volume/Cont.		sis Requested	Preservative	s Lab		nments		
0439220	205	6 VOAs		(,MTBE,TAME, E DB, TBA, Ethenal		Sequoia	<u> </u>			
V			TPH d, M.O.		none	7				
				<del></del>		-				
•		` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `								
				<u> </u>						
nasasa dan			OII	LITY CONTROL	SAMPLES/			1, 14, 14, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15		
	uplicate Sampl	Charles of the second s	ALM - TALIFOX - 1 S . 2 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3		Samples	<u> </u>	Other Sam			
Original Sample	No. De	upl. Sample No.	Ту		Sample No.	Туре		ample No.		
			-			1				
						]				
			i L		1	J L				

Reviewed by: SAU Date: 10/13/04



Job Number: 4095041620. 01 Date: 9127/04  Recorded By: Sampled By: DSB (Signature) WELL PURGING  PURGE VOLUME  Casing Diameter (D in inches): 2 Total Depth of Casing (TD in ft BTOC): 14  Date: 9127/04  Sampled By: DSB (Initials)  PURGE METHOD  X Bailer - Type: PVC Submersible - Type:		*****	<b>1</b>			Well Number	r:	MW-3		
Job Number: 4095041620. 01  Recorded By: 5088  Reco						Well Type:	X Monitor	Extraction	Other	
Recorded By:	Job Name:		AutoPro				XPVC	St. Steel	Other	
Purple Volume   Purple   Pur	Job Number:	·	4095041620. 01			Date:	91221	04		
Purple Volume   Purple   Pur	Recorded By									
PURGE METHOD  Casing Diameter (D in inches):  2			(Sk	nature)						
Casing Diameter (D in inches):  7 Total Depth of Casing (TD in ft BTOC): 14 Submersible - Type:  No. of Well Volumes to be purged (# V 3  PUMP INTAKE SETTING  Near Bottom Near Top Opth in feet (BTOC): 14 Submersible - Type: Other - Type: Other - Type: Opth in feet (BTOC): 15 Submersible - Type: Other - Type: Other - Type: Opth in feet (BTOC): Screen interval in feet (BTOC): From to Opth in feet (BTOC): Screen interval in feet (BTOC): Opth in feet (BTOC): Screen interval in feet (BTOC): Screen interval in feet (BTOC): Screen interval in feet (BTOC): Screen interval in feet (BTOC): Screen interval in feet (BTOC): Opth in feet (BTOC): Screen interval in feet (BTOC)	7 <b>74</b> 20	i il Salas de California	X.Hariji i	a <b>F</b> ace of the	/ WELL PURG	ING	i songjugety ky	在全国的1000 <b>国</b> 里	表因物性含	
Total Depth of Casing (TD in ft BTOC): 14  Water Level Depth (WL in ft BTOC): 17.95  No. of Well Volumes to be purged (# V 3  PUMP MIAKE SETTING  Near Bottom Near Top Other  Other - Type: 1.23 x 2 x 3 x 0.0408 = 1.0 gals  To (we) WL (sed) 0 decise) # V Casabised Purge Volume  Gallons or Minutes pH (s5) Temp. 7 (NTU)  Initial (4.45 521.45 23.5  5.2 purples State: 10.95 GPM.  Initial (4.45 57.14 22.4	) 4 r   14 r ()	PURGE	YOLUME :	推出被犯罪	dylan o z S		PURGE	METHOD 🖟 🗀		
Water Level Depth (WL in ft BTOC):  No. of Well Volumes to be purged (# V 3    PURGE VOLUME DALCULATION   Near Bottom   Near Top						H				
No. of Well Volumes to be purged (# V 3  PURDE VOLUME CALCULATION    Purple Company   Purple Calculation   Purple Volume   Purple Stort   Depth in feet (BTOC):   From   Io						<b>├</b> ─ <b> </b>	Type:			
Near Bottom						Cuter - Type.				
Other Depth in feet (BTOC):  To (reat) WL (reat) D (nother) & V Catolated Purpe Volume  Gallons or Minutes pH (u.S) Temp. 7: (NTU) Initial G. A 5. 521.45, 23.5, 15.2  1.33 G. 39 514 22.6 21000  I.O G. 41 510 22.6 21000  I.O G. 45 512 27.6 21000  I.O G. 45 512 27.6 21000  Depth in feet (BTOC): from							PUMP INTAKI	ESETTING		
1		PURGE VOLUM	IE CALCULATI	, K		Near Bottom	[	Near Top		
To greety Will, (Feet) D (Inches) & V Calculated Purpe Volume Screen Interval in for (BTOC): from 10      Conductivity	. #					Other				
Gallons or Minutes pH (u.S) Temp. F (NTU) Initial 6 A 5 521.445 23.5   5.2   Purge Start:   0.945   GPM:	<u> </u>	<u>ц.93</u> )х <u>2</u>	<u>~</u> <sup>2</sup> X 3 X 0.04	08 = <b>1.0</b>	gals			,		
Gallons or Minutes r Minutes or M	TD (feet)	WL (Feet) D	(Inches) #V	Calc	culated Purge Volume	Screen Interval in	feet (BTOC):	from	to	
Gallons or Minutes or		£ Field Paramel	er Measurane	1	1					
Or Minutes			1		Turbidity	PURGETIME	× 36	PURGE RAT	<b>E</b> 4(3)	
33	or Minutes	pН	1	. —			145	L	52	
166   6.41   514   22.6   2100   21	Initial	645	52145	23.5	15.2	Purge Stop:	05 <del>5</del>	GPM:		
Volume: gallons  Observations During Purging (Well Condition, Color, Odor):  Cloudy gray Styly hydron  Odor Mo Shoen  Discharge Water Disposal: Sanitary Sewer  Meter S/N DB03 9092 Storm Sewer Other Drum on  WELL SAMPLING  Bailer - Type: Disposable  Sample No. Volume/Cont. Analysis Requested Preservatives Lab Comments  439 22004 6 VOAs TPH gas.BTEX.MTBE, TAME, ETBE, HCL Sequoia  DIPE, TBA, EDB, Edc, ethanol DIPE, ethanol DIPE, ethanol DIPE, ethanol DIPE, ethanol D	.33	6.39	514	22.6	21000	Elapsed:	10			
Observations During Purging (Well Condition, Color, Odor):  Cloudy gray Styth hydron Odor No Stoem Odor No Stoem Discharge Water Disposal:  Samilary Sewer  WELL SAMPLING  Bailer - Type:  Disposable  Sample No.  Volume/Cont. Analysis Requested Preservatives Lab Comments  A 32, 22, 2004  OVOAS TPH gas, BTEX,MTBE, TAME, ETBE, HCL Sequoia  DIPE, TBA, EDB, Edc, ethanol DIPE, TBA, EDB, Edc, ethanol DIPE, TBA, EDB, Edc, ethanol TPH d. TPH m.o.  OVOAS TPH d. TPH	166	6.41	514	22.6	21000	PURGE VOLUME				
Observations During Purging (Well Condition, Color, Odor):  Cloudy gray Stath hydron Odor No Stoem O	1.0	6.45	512	27.6	71000	Volume: —	1,5	- gallons		
Bailer - Type: Disposable Sample Time: 100  Sample No. Volume/Cont. Analysis Requested Preservatives Lab Comments  6 VOAs TPH gas,BTEX,MTBE, TAME, ETBE, HCL Sequoia DIPE, TBA, EDB, Edc, ethanol 2-1Lt A.G. TPH d. TPH m.o. none  QUALITY.CONTROL SAMPLES  Duplicate Samples Blank Samples Other Samples	11-4 C/N					Odor Discharge Water I	Xo Is	Sanitary Sew	er •	
Bailer - Type: Disposable Sample Time: LOO  Sample No. Volume/Cont. Analysis Requested Preservatives Lab Comments 6 YOAs TPH gas,BTEX,MTBE, TAME, ETBE, HCL Sequoia DIPE, TBA, EDB, Edc, ethanol none 2-1Lt A.G. TPH d. TPH m.o. none  QUALITY CONTROL SAMPLES  Duplicate Samples Blank Samples Other Samples	Meter S/N	DB03	<u>.l</u>	!	9092	Storm Sewer	i	X Other 12%	um or	
Sample No. Volume/Cont. Analysis Requested Preservatives Lab Comments 643972004 6 VOAs TPH gas,BTEX,MTBE, TAME, ETBE, HCL Sequoia DIPE, TBA, EDB, Edc, ethanol none 2-1Lt A.G. TPH d. TPH m.o. none  OUNTRICE SAMPLES  Duplicate Samples Blank Samples Other Samples		<b>编码</b> 是 (4) 医 (4)		47 (25.5)	WELL SAMPI	ING			17 Apr. 4 15 1	
Duplicate Samples  TPH gas,BTEX,MTBE, TAME, ETBE, HCL Sequoia  DIPE, TBA, EDB, Edc, ethanol  DIPE, TBA, EDB, Edc, ethanol  TPH d. TPH m.o.  Rone  Other Samples  Other Samples	Bailer - Typ	e:	Disposable		-	Sample Time:	1100	)		
DIPE, TBA, EDB, Edc, ethanol  2-1Lt A.G. TPH d. TPH m.o. none  TPH d. TPH m.o. none  QUALITY CONTROL SAMPLES  Duplicate Samples  Other Samples		_ ,	1	<del></del>	<del></del>				ments	
2-1Lt A.G. TPH d. TPH m.o. none  Compared to the second se	64392	1004	<del>                                     </del>	1			Sequoia	1		
Duplicate Samples Blank Samples Other Samples	4						7			
Duplicate Samples Blank Samples Other Samples										
Duplicate Samples Blank Samples Other Samples										
Duplicate Samples Blank Samples Other Samples				ļ						
Duplicate Samples Blank Samples Other Samples					-					
Duplicate Samples Blank Samples Other Samples										
Duplicate Samples Blank Samples Other Samples										
Duplicate Samples Blank Samples Other Samples					·					
Duplicate Samples Blank Samples Other Samples		e gressas aparta		L.	ALITY CONTROL	SAMDI ES				
	ter dividual in the second	Junicate Same		7 (T			7		-	
		•		ITV		•	Туре	-		
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Reviewed by: 611 L
Date: 10/12/04



	TATT				Well Number	,	MW-4	
					Well Type:	X Monitor	Extraction	Other_
Job Name:		AutoPro		<u></u>		XPVC	St. Steel	Other
Job Number:	<u></u>	40950416	20. 01		Date:	91221	04	
Recorded By	r Da	2014 Bir	mature)	·	Sampled By:		DSB (initials)	
				WELL PURGE	NG : : : : : : : : : : : : : : : : : : :			
(M. 87 k) W	PURG	E VOLUME		W. W	(1) 2 (1) (1)	A-VEURGE	METHOD	
	neter (D in in		2		X Bailer - Type:	PVC		
Water Level	Depth (WL	D in ft BTOC): in ft BTOC): be purged (#V	17.15		Submersible - T Other - Type:	ype:		
						SECURE LIVER	(ESETTING).	
	PURGE VOLU	IME CALCULATII	ON GOOD AND A	<b>国的数据</b>	Near Bottom		Near Top	
		<b>)</b> .	ن		Other			
•	1712)×7	<u> </u>	08 = <u>1.(t</u>	gals	Depth in feet (BTO			
TD (feet)	WL (Feet)	D (inches) #V	Cak	culated Purge Volume	Screen Interval in fo	eet (BTOC):	from	to
	Field Parame	eter Measuremer	u Colfranal			-		
Gallons		Conductivity		Turbidity	PURGETIME	A A STATE OF THE S	PURGE RA	TE / ·
or Minutes	pH	(μS)	Temp. ☐ °F	(NTU)	Purge Start: <u>///</u>		GPM:	
Initial	4 ZO	462 45	24.0	10.6	Purge Stop:	45	GPM:	
16	4.59	486	22.9	115.0	Elapsed:	0		•
1,2	6.42	491	12.6	789	PURGE VOLUME			
210	6.44	494	22.7	451	Volume:	<u>; ()</u>	<ul><li>gallons</li></ul>	
Meter S/N	DB03			9092	Observations During Cloud, hydro Discharge Water D	Carbo	1 - Sles	
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			10 S N S S	WELL SAMPLI	ING .		Å & V.	
Bailer - Typ		Disposable		-	Sample Time:			
Sam <b>64367</b>	iple No.	Volume/Cont. 6-VOAs	<del></del>	ysis Requested X,MTBE, TAME, ET	Preservative BE, HCL	s Lab Sequo		nments
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	7	2-1Lt AG	TPH d.	TPH m.o.	none	1		
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s - Vincel Production		ing and the second		ALEDY CONTENT	MACUTÉ		The State Tales	
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ں Original Sample	•	oles Dupl. Sample No.		Blank S pe	Samples Sample No.	Type	Other Sam Sa	ples imple No.
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GHL 10/12/104



Well Number:

CHMW-2

					Well Type:	X Monitor	Extraction	Other	
Job Name:	<del></del>	AutoPro				XPVC	St. Steel	Other	
Job Number: 4095041620.		<u> 20. 01                                   </u>		Date:	91221	04			
Recorded By: David Brown			me_		Sampled By:		DSB		
ro en el deserva		(Sig	nature)				(initials)	n i kalang Manuarakang Manganggan pang	
				WELL PURG	NG	2 A ST 77 (B)	K MARKET SELECTION		
	PURÖ		•) : : : : : : : : : : : : : : : : : : :				METHOD ::		
	meter (D in inc of Casing (Ti	ches); D in ft BTOC):	<u>2</u> 24		X Bailer - Type: Submersible - T	PVC			
Water Leve	l Depth (WL i	n ft BTOC):	12.64		Other - Type:	, he.			
No. of Well	Volumes to b	e purged (# V	3						
FACTOR ACTIONS FOR SECTION						PUMP INTAK	ESEITING		
and the second	PURGENOLU	MEÇALOÜLATIC	N ( ) ( ) ( ) ( )		Near Bottom		Near Top		
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TD (feet)	_	O (inches) #V		gano ulated Purge Volume	Screen Interval in f		from	to	
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	Field Parame	ter Measuremen							
Gallons or Minutes	-11	Conductivity		Turbidity	PURGETIME:	15.300 g 14.37 6	PURGE R	ATE	
Initial	pH (- 39	(μS) 357	Temp. □ °F	(NTU)	Purge Start: 6	<u> チ に</u> 2)で	GPM: GPM:		
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					Observations Durin	ng Purging (Wel	l Condition, Co	lor, Odor):	
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					<u>odorte</u>	4 - N	o Sheen	4	
Meter S/N	DB03			9092	Discharge Water D	isposai:	Sanitary So	ewer Srum on Si	
Page 1900 Million Colores				9092	Storm Sewer		X Onter 7	), ~ 00, O4 St	
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Bailer - Typ	e:	Disposable			Sample Time:	073	<u> </u>		
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Original Sampl		upl. Sample No.	Тур		Sample No.	- 1 1		Other Samples Sample No.	
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Reviewed by: 6 KL Date: 10/13/04 **APPENDIX B** 

**FIELD BORING LOGS** 

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DEPTH	TYPE	BLOWS	DRIVEN	REC'V'D	COND	D.RATE		SAMPLE	Time	ОЕРТН	RAP	LO C	PROJECT: 409504 16 20 NO. 05 BORING NO. B-2. TEISTAR AUTO PRO
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### **APPENDIX C**

LABORATORY ANALYTICAL REPORTS



1455 McDowell Blvd, North Ste D Petaluma, CA 94954 (707) 792-1865 FAX (707) 792-0342 www.sequoialabs.com

7 October, 2004

Gary Lieberman MACTEC E&C - Petaluma 5341 Old Redwood Highway, Suite 300 Petaluma, CA 94954

RE: General Commercial Work Order: P408097

Enclosed are the results of analyses for samples received by the laboratory on 08/09/04 09:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stacy P. Hoch

Stay P. Hoch

**Dept Manager - Client Services** 

CA ELAP Certificate #2374





Project:General Commercial
Project Number:Shorenstein/315 Montgomery/4095041604
Project Manager:Gary Lieberman

P408097 Reported: 10/07/04 16:18

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laberatory ID	Matrix	Date Sampled	Date Received
040807-M-001	P408097-01	Soil	08/07/04 08:00	08/09/04 09:05
040807-M-002	P408097-02	Soil	08/07/04 08:45	08/09/04 09:05
040807-M-003	P408097-03	Water	08/07/04 09:25	08/09/04 09:05



1455 McDowell Blvd, North Ste D Petaluma, CA 94954 (707) 792-1865 FAX (707) 792-0342 www.sequoialabs.com

MACTEC E&C - Petaluma 5341 Old Redwood Highway, Suite 300 Petaluma CA, 94954

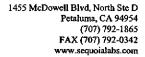
Project:General Commercial
Project Number:Shorenstein/315 Montgomery/4095041604
Project Manager:Gary Lieberman

P408097 Reported: 10/07/04 16:18

### Purgeable Hydrocarbons by EPA 8015B

# Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
040807-M-003 (P408097-03) Water	Sampled: 08/07/04	109:25 Rec	eived: 08	3/09/04 09:	05				
Gasoline Range Organics (C6-C10)	57000	10000	ug/l	200	4080266	08/12/04	08/12/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		89 %	65-	135	"	н	r	н	





Project:General Commercial
Project Number:Shorenstein/315 Montgomery/4095041604
Project Manager:Gary Lieberman

P408097 Reported: 10/07/04 16:18

# Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B

### Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
040807-M-003 (P408097-03) Water S	Sampled: 08/07/04	09:25 Rec	eived: 08	3/09/04 09:	05				
Diesel Range Organics (C10-C28)	29	0.50	mg/l	10	4080310	08/13/04	08/20/04	EPA 8015B- SVOA	
Motor Oil Range Organics (C24-C36)	ND	2.5	"	11	**	**	н	н	
Surrogate: Octacosane		222 %	50-	150	Ħ	"	"	P	S04





Project:General Commercial
Project Number:Shorenstein/315 Montgomery/4095041604
Project Manager:Gary Lieberman

P408097 Reported: 10/07/04 16:18

# Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Petaluma

i		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
040807-M-003 (P408097-03) Water	Sampled: 08/07/04	09:25 Rec	eived: 08	/09/04 09:	05				
Benzene	9.5	5.0	ug/l	10	4080277	08/12/04	08/12/04	EPA 8260B	
Ethylbenzene	36	5.0	19	"		"	π	71	
Toluene	11	5.0	19	**	**	π	77	и	
Xylenes (total)	29	5.0	11		77	**	п	и	
Surrogate: Dibromofluoromethane		106 %	84-	122	**	"	**	"	
Surrogate: 1,2-Dichloroethane-d4		113 %	74-	135	"	#	"	. "	
Surrogate: Toluene-d8		161 %	84-	119	"	#	"	*	S04
Tert-amyl methyl ether	ND	10	И	10	*	11	**	11	
Tert-butyl alcohol	ИD	200	44	**	**	н	**	11	
Di-isopropyl ether	ND	10	н	17	77	11	π.	**	
1,2-Dibromoethane (EDB)	ND	5.0	19	π-	**	14	#	**	
1,2-Dichloroethane	ND	5.0	п	**	*	11	**	10	
Ethanol	ND	1000	н	77	**	н	*	**	
Ethyl tert-butyl ether	ND	10	11	**	**	н	#	10	
Methyl tert-butyl ether	ND	5.0	н	*		11	п	"	
Surrogate: Dibromofluoromethane		106 %	84-	122	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		113 %	74-	135	"	"	"	*	
Surrogate: Toluene-d8		161 %	84-	119	"	"	rr ·	**	S04





Project:General Commercial
Project Number:Shorenstein/315 Montgomery/4095041604
Project Manager:Gary Lieberman

P408097 Reported: 10/07/04 16:18

# Purgeable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080266 - EPA 5030B, waters	/EPA 8015B	-VOA								
Blank (4080266-BLK1)				Prepared	& Analy2	ed: 08/12/	<b>/04</b>			
Gasoline Range Organics (C6-C10)	ND	50	ug/l		-				<u>-</u>	
Surrogate: 4-Bromofluorobenzene	269		.,	300		90	65-135			-
Laboratory Control Sample (4080266-B	S1)			Prepared	& Analyz	ed: 08/12/	04			
Gasoline Range Organics (C6-C10)	2570	50	ug/l	2750		93	65-135			-
Surrogate: 4-Bromofluorobenzene	279		и	300		93	65-135			
Matrix Spike (4080266-MS1)	Source: P	<b>€08049-14</b>		Prepared	& Analyz	ed: 08/12/	<b>′</b> 04			
Gasoline Range Organics (C6-C10)	2840	50	ug/l	2750	410	88	65-135		20.32	
Surrogate: 4-Bromofluorobenzene	275		n	300		92	65-135			
Matrix Spike Dup (4080266-MSD1)	Source: P	108049-14		Prepared	& Analyz	ed: 08/12/	<b>'04</b>			
Gasoline Range Organics (C6-C10)	2930	50	ug/l	2750	410	92	65-135	3	20	
Surrogate: 4-Bromofluorobenzene	276		n	300		92	65-135			•



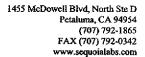


Project:General Commercial
Project Number:Shorenstein/315 Montgomery/4095041604
Project Manager:Gary Lieberman

P408097 Reported: 10/07/04 16:18

# Extractable Hydrocarbons with Silica Gel cleanup by EPA 8015B - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080310 - EPA 3510C / EPA	8015B-SVOA									
Blank (4080310-BLK1)				Prepared:	08/13/04	Analyzeo	1: 08/20/04			
Diesel Range Organics (C10-C28)	ND	0.050	mg/l							
Motor Oil Range Organics (C24-C36)	ND	0.25	**							
Surrogate: Octacosane	0.0512		W	0.0500		102	50-150			
Laboratory Control Sample (4080310-	BS1)			Prepared:	08/13/04	Analyzed	1: 08/20/04			
Diesel Range Organics (C10-C28)	1.04	0.050	mg/l	1.00		104	49-102			QL04
Surrogate: Octacosane	0.0595		rr	0.0500		119	50-150			
Laboratory Control Sample Dup (4080	310-BSD1)			Prepared:	08/13/04	Analyze	1: 08/20/04			
Diesel Range Organics (C10-C28)	1.04	0.050	mg/l	1.00		104	49-102	0	20	QL04
Surrogate: Octacosane	0.0611		n	0.0500		122	50-150			





Project:General Commercial
Project Number:Shorenstein/315 Montgomery/4095041604
Project Manager:Gary Lieberman

P408097 Reported: 10/07/04 16:18

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080277 - EPA 5030B water	s / EPA 8260B									
Blank (4080277-BLK1)				Prepared a	& Analyze	ed: 08/12/0	)4			
Tert-amyl methyl ether	ND	1.0	ug/l							
Benzene	ND	0.50	н							
Tert-butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	1.0	н							
1,2-Dibromoethane (EDB)	ND	0.50	п							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	н							
Ethylbenzene	ND	0.50	II .							
Ethyl tert-butyl ether	ND	1.0	Ħ							
Methyl tert-butyl ether	ND	0.50	н							
Toluene	ND	0.50	н							
Xylenes (total)	ND	0.50	н							
Surrogate: Dibromofluoromethane	5.26		"	5.00		105	84-122	-		
Surrogate: Dibromofluoromethane	5.26		*	5.00		105	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.15		*	5.00		103	74-135			
Surrogate: 1,2-Dichloroethane-d4	5.15		"	5.00		103	74-135			
Surrogate: Toluene-d8	5.66		*	5.00		113	84-119			
Surrogate: Toluene-d8	5.66		"	5.00		113	84-119			
Laboratory Control Sample (4080277-	·BS1)			Prepared a	& Analyze	ed: 08/12/0	)4			
Tert-amyl methyl ether	4.79	1.0	ug/l	5.00		96	78-117	•		
Benzene	5.04	0.50	н	5.00		101	81-118			
Tert-butyl alcohol	106	20	14	100		106	60-147			
Di-isopropyl ether	4,72	1.0	n	5.00		94	70-125			
1,2-Dibromoethane (EDB)	5.36	0.50	11	5.00		107	85-125			
1,2-Dichloroethane	4.93	0.50	71	5.00		99	77-126			
Ethanol	101	100	**	100		101	55-200			
Ethylbenzene	5.36	0.50	77	5.00		107	89-122			
Ethyl tert-butyl ether	4.65	1.0	19	5.00		93	71-120			
Methyl tert-butyl ether	4.64	0.50	**	5.00		93	70-122			
Toluene	5.08	0.50	11	5.00		102	84-119			
Xylenes (total)	15.9	0,50	#	15.0		106	86-132			
Surrogate: Dibromofluoromethane	5.33		"	5.00		107	84-122	<u> </u>		
Surrogate: Dibromofluoromethane	5.33		rr	5.00		107	84-122			
Surrogate: 1,2-Dichloroethane-d4	5,14		"	5.00		103	74-135			
Surrogate: 1,2-Dichloroethane-d4	5.14		m .	5.00		103	74-135			

Sequoia Analytical - Petaluma





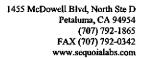
Project:General Commercial
Project Number:Shorenstein/315 Montgomery/4095041604
Project Manager:Gary Lieberman

P408097 Reported: 10/07/04 16:18

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

Analyta	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	76REC	Limits	KrD _	Limit	NOSES
Batch 4080277 - EPA 5030B waters	/ EPA 8260B		••							
Laboratory Control Sample (4080277-B	S1)			Prepared	& Analyz	ed: 08/12/	04			
Surrogate: Toluene-d8	5,58		ug/l	5.00		112	84-119			
Surrogate: Toluene-d8	5.58		w	5.00		112	84-119			
Matrix Spike (4080277-MS1)	Source: P4	108049-18		Prepared	& Analyz	ed: 08/12/	04			
Tert-amyl methyl ether	5.09	1.0	ug/l	5.00	ND	102	78-117			
Benzene	12.0	0.50	++	5.00	7.8	84	81-118			
Tert-butyl alcohol	151	20	**	100	ND	151	60-147			QM0
Di-isopropyl ether	6.69	1.0	**	5.00	2.2	90	70-125			
1,2-Dibromoethane (EDB)	5.66	0.50	**	5.00	ND	113	85-125			
1,2-Dichloroethane	5.18	0.50	•	5.00	0.32	97	77-126			
Ethanol	95.9	100	**	100	ND	<b>9</b> 6	55-200			
Ethylbenzene	10.3	0.50	11	5.00	5.6	94	89-122			
Ethyl tert-butyl ether	4.66	1.0	17	5.00	ND	93	71-120			
Methyl tert-butyl ether	4.95	0.50	11	5.00	0.11	97	70-122			
Toluene	5.57	0.50	11	5.00	0.67	98	84-119			
Xylenes (total)	19.2	0.50	**	15.0	3.8	103	86-132			
Surrogate: Dibromofluoromethane	5.38		"	5.00		108	84-122			
Surrogate: Dibromofluoromethane	5.38		n	5.00		108	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.01		"	5.00		100	74-135			
Surrogate: 1,2-Dichloroethane-d4	5.01		"	5.00		100	74-135			
Surrogate: Toluene-d8	5.77		"	5.00		115	84-119			
Surrogate: Toluene-d8	5.77		*	5.00		115	84-119			
Matrix Spike Dup (4080277-MSD1)	Source: P4	108049-18		Prepared	& Analyz	ed: 08/12/	04			
Tert-amyl methyl ether	5.23	1.0	ug/l	5.00	ND	105	78-117	3	20	
Benzene	12.0	0.50	**	5.00	7.8	84	81-118	0	20	
Tert-butyl alcohol	152	20	19	100	ND	152	60-147	0.7	20	QM01
Di-isopropyl ether	6.68	1.0	11	5.00	2.2	90	70-125	0.1	20	
1,2-Dibromoethane (EDB)	5.88	0.50	и	5.00	ND	118	85-125	4	20	
1,2-Dichloroethane	5.32	0.50	11	5.00	0.32	100	77-126	3	20	
Ethanol	90.2	100	н	100	ND	90	55-200	6	20	
Ethylbenzene	10.2	0.50	Н	5.00	5.6	92	89-122	1	20	
Ethyl tert-butyl ether	4.66	1.0	11	5.00	ND	93	71-120	0	20	
Methyl tert-butyl ether	4.91	0.50	11	5.00	0.11	96	70-122	0.8	20	
Toluene	5.80	0.50	h	5.00	0.67	103	84-119	4	20	
Xylenes (total)	19.5	0.50	Ħ	15.0	3.8	105	86-132	2	20	

Sequoia Analytical - Petaluma





Project:General Commercial
Project Number:Shorenstein/315 Montgomery/4095041604
Project Manager:Gary Lieberman

P408097 Reported: 10/07/04 16:18

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 4080277 -	EPA 5030B	waters / El	PA 8260B

Matrix Spike Dup (4080277-MSD1)	Source: P408049-18		04			
Surrogate: Dibromofluoromethane	5.17	ug/l	5.00	103	84-122	
Surrogate: Dibromofluoromethane	5.17	**	5.00	103	84-122	
Surrogate: 1,2-Dichloroethane-d4	4.81	**	5.00	96	74-135	
Surrogate: 1,2-Dichloroethane-d4	4.81	rr rr	5.00	96	74-135	
Surrogate: Toluene-d8	5.79	ft	5.00	116	84-119	
Surrogate: Toluene-d8	5.79	**	5.00	116	84-119	



1455 McDowell Blvd, North Ste D Petahura, CA 94954 (707) 792-1865 FAX (707) 792-0342 www.sequoialabs.com

MACTEC E&C - Petaluma 5341 Old Redwood Highway, Suite 300 Petaluma CA, 94954 Project:General Commercial
Project Number:Shorenstein/315 Montgomery/4095041604
Project Manager:Gary Lieberman

P408097 Reported: 10/07/04 16:18

#### **Notes and Definitions**

The surrogate recovery for this sample is above control limits due to interference from the sample matrix.

QM01 The spike recovery was above control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QL04 The LCS recovery was above of the control limits by Enter [2] text here.. There was insufficient sample for re-extraction and re-

analysis. This should be considered in evaluating the data for its intended purpose.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



# CHAIN OF CUSTODY FORM

<u>``</u>		" and		Nº	**#* *
<b>MACTEC</b>	CHAIN OF	CUSTODY FORM	Seq. No.:	IN	<del></del>
MITIGILIC			Lab:	SEQUOIA-	
	Samplers:	LATT WALRAVER	a AN,	ALYSIS REQUESTED	
Job Number: 4095041620 05			158	9	
	00 TELEGRAPH		8 80 101 15i	24/9	
Project Manager: GARY (JEBERNA)	Recorder:	(Signature Required	(17) Redic		
		(Oldington Hedoner	15   20   42	170C	
MATRIX #CONTAINERS & PRESERV.			lange C MTBE MTBE 22 Meta		
SAMPLE NUMBER	DATE	STATION DESCRIPTION	ET Soline Range BTEX plus   CCR Title 2 CCR Title 2 EPA 8021B	EPA 8260B EPA 8270C	
O to to to to to to to to to to to to to			E Gasoline F Diesel Rar CCR Title 1 EPA 80218	8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	<del>- [ -   -   -   -   -   -   -   -   -   </del>			<u> </u>	+
K   1   040807-M-DOIO	*   "    *    =    *	B-1 P405097-0	_ 1 1 [ 11 ]	<del>-                                     </del>	<del></del>
K 1 040807-N-0020		B-4	13.5		<del></del>
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		·			
ADDITIONAL INFORMATION			CHAIN OF CUSTOD	V BECORD	
			CHAIR OF COSTOD	: NECOND	Deta/Tune
SAMPLE NUMBER  TURNAROUND TIM	E/DEMARKS	William !	MATT WALRAVEN	MACTEC.	8/7/64 121
YR SEQ TONNANOUND TIME	DITENSATIVO	Minguisted By. (signature)	Steve Korbay	(Company) Mactec	8/9/04 De
111111 x, Telf d & mo	yse	Received By (signature)	(Print Name)	(Company)	Date/Sime
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	48	Relinduished By: (signature)	Steve Borbay	Mactec (Company)	8/9/04 90 Date/Time
	1	Received By. (signaftyle)	Altredo Lorenzo	SCO. (Company)	8/9/04 906 Patertine
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	/	Relinquished By (signature)	(Print Name)		
COOLER CUSTODY SEALS INTACT			(r'nni riame)	(Company)	Date/Time
NOTANTACE		Received By: (signature)	(Print Name)	(Company)	Date/Time
OMER TO THE HIS OF	All	Received By: (signature)	(Print Name)	(Company)	Date/Time
		Method of Shipment:			
Laboratory Copy White	Project Office Copy Yellow	Fleid or Office Copy Plnk			00291 1

# SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	MACTEC 1405097	<u></u>		DATE Received at Lab: TIME Received at Lab: LOG IN DATE:	8-9-04 905 6/9/04	- -	(Drinking w regulatory p (Wastewater regulatory p	nurposes; VES/NO
CIRCLE THE APPRO	PRIATE RESPONSE	LAB				SAMPLE		Telegram
		SAMPLE#	#	CLIENT ID	DESCRIPTION	1	SAMPLED	COMPITION (ETC.)
1. Custody Scal(s)	Present Absort			34-807-m-001	pc	S	08-07-94	401d
2 Obstance	Intact / Broken*		· · · · · · · · · · · · · · · · · · ·	002	1	1		V
2. Chain-of-Custody	Present / Absent*			<u> </u>	X3PV	4		THE PARTY OF THE P
3. Traffic Reports or Packing List:	Burnant		<del></del> -	· - L	XZICA	1		7,411
4. Airbill:	Present / Absert Airbill / Sticker							
	Present / Auseur							·
5. Airbill #:	_		<del></del>					The second secon
6. Sample Labels:	Present / Absent							The second secon
7. Sample IDs:	Listed / Not Listed		*****	7				***
	on Chain-of-Custody				+			
8. Sample Condition:	Intact / Broken*/		<del></del> -		X			BARTAN
	Leaking*					· · · · · · · · · · · · · · · · · · ·		
9. Does information on			<del></del> -		1/2			
custody reports, traific						1		a mark of the control
reports and sample					7	-	<u> </u>	
labels agree?	Yes/No*							
10. Sample received within								
hold time:	Yes / No*						7	And the second s
11. Proper Preservatives	~							
used:	Nes/No*							The state of the s
12. Temp Rec, at Lab:	4.3							the state of the s
(Acceptance range for sample	es O						——————————————————————————————————————	
requiring thermal pres.:44/-2	°C) (36/110*.					· · · · · · · · · · · · · · · · · · ·		
CONTRACTOR CONTRACTOR OF THE C		*If Circle	d, cor	itact Project Manager	and attach recor	d of resol	ation.	

**June 2004 Monitoring Results** 



1455 McDowell Blvd, North Ste D Petaluma, CA 94954 (707) 792-1865 FAX (707) 792-0342 www.sequoialabs.com

16 July, 2004

Gary Lieberman MACTEC E&C - Petaluma 5341 Old Redwood Highway, Suite 300 Petaluma, CA 94954

RE: General Commercial Work Order: P406444

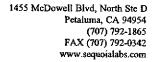
Enclosed are the results of analyses for samples received by the laboratory on 06/23/04 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerety,

stay P. Hoch

Stacy P. Hoch Dept Manager - Client Services

CA ELAP Certificate #2374



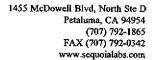


Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0428CH0201	P406444-01	Water	06/23/04 07:10	06/23/04 15:40
0428CH0302	P406444-02	Water	06/23/04 08:25	06/23/04 15:40
0428MW0103	P406444-03	Water	06/23/04 10:15	06/23/04 15:40
0428MW0204	P406444-04	Water	06/23/04 11:25	06/23/04 15:40
0428MW0305	P406444-05	Water	06/23/04 12:20	06/23/04 15:40
0428MW0406	P406444-06	Water	06/23/04 13:20	06/23/04 15:40
0428MW0507	P406444-07	Water	06/23/04 13:45	06/23/04 15:40
0428MW0608	P406444-08	Water	06/23/04 14:15	06/23/04 15:40



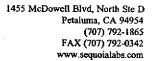


Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

# Purgeable Hydrocarbons by EPA 8015B Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0428MW0103 (P406444-03) Water	Sampled: 06/23/04	10:15 Rece	ived: 06	/23/04 15:4	10	*	•		
Gasoline Range Organics (C6-C10)	530	50	ug/l	1	4060651	06/30/04	06/30/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene	<del></del> `	92 %	65-	135	4	*	#	N	
0428MW0204 (P406444-04) Water	Sampled: 06/23/04	11:25 Rece	ived: 06	/23/04 15:4	10				
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	4060651	06/30/04	06/30/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		85 %	65-	135	,	,,	*	n	
0428MW0305 (P406444-05) Water	Sampled: 06/23/04	12:20 Rece	ived: 06	/23/04 15:4	t0				
Gasoline Range Organics (C6-C10)	33000	250	ug/l	5	4060651	06/30/04	06/30/04	EPA 8015B-VOA	· <u>-</u>
Surrogate: 4-Bromofluorobenzene		200 %	65-	135	"	"	"	n	S04
0428MW0406 (P406444-06) Water	Sampled: 06/23/04	13:20 Rece	ived: 06	/23/04 15:4	10				
Gasoline Range Organics (C6-C10)	1700	50	ug/l	1	4060651	06/30/04	06/30/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		98 %	65-	135	,,	"	"	"	
0428MW0507 (P406444-07) Water	Sampled: 06/23/04	13:45 Rece	ived: 06	/ <b>23/04 15:</b> 4	10				
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	4060651	06/30/04	06/30/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		88 %	65-	135	#	"	"	*	
0428MW0608 (P406444-08) Water	Sampled: 06/23/04	14:15 Rece	ived: 06	/23/04 15:4	10				
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	4060651	06/30/04	06/30/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		88 %	65-	135	,,	*	"	*	





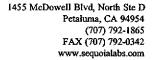
Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

# Extractable Hydrocarbons by EPA 8015B

### Sequoia Analytical - Petaluma

		quoia 11						<del>.</del>	-
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0428CH0201 (P406444-01) Water Sar	npled: 06/23/04 0	7:10 Rece	ived: 06/2	3/04 15:40	)				
Diesel Range Organics (C10-C28)	0.11	0.052	mg/l	1	4060548	06/25/04	06/28/04	EPA 8015B-SVOA	<del>5</del>
Motor Oil Range Organics (C24-C36)	ND	0.26		н	н	#		11	
Surrogate: Octacosane		55 %	54-	141	n	"	"	*	
0428CH0302 (P406444-02) Water Sag	npled: 06/23/04 0	8:25 Rece	ived: 06/2	3/04 15:40	)				
Diesel Range Organics (C10-C28)	1.2	0.056	mg/l	1	4060548	06/25/04	06/28/04	EPA 8015B-SVOA	· ·
Motor Oil Range Organics (C24-C36)	ND	0.28	Ħ	11	11	н	#	н	
Surrogate: Octacosane		100 %	54-	141	,,	#	"	<b>"</b>	
0428MW0103 (P406444-03) Water Sa	mpled: 06/23/04	10:15 Rec	eived: 06/	23/04 15:4	0				
Diesel Range Organics (C10-C28)	0.33	0.050	mg/l	1	4060548	06/25/04	06/28/04	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	ND	0.25		*	Ħ	н	n	π	
Surrogate: Octacosane		88 %	54-	141	"	"	W	#	
0428MW0204 (P406444-04) Water Sa	mpled: 06/23/04	11:25 Rec	eived: 06/	23/04 15:4	0				
Diesel Range Organics (C10-C28)	0.056	0.056	mg/l	1	4060548	06/25/04	06/29/04	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	ND	0.28	#		"	**	11	*	
Surrogate: Octacosane		56 %	54-	141	"	#	**	"	
0428MW0305 (P406444-05) Water Sa	mpled: 06/23/04	12:20 Rec	eived: 06/	23/04 15:4	0				
Diesel Range Organics (C10-C28)	0.60	0.056	mg/l	1	4060548	06/25/04	06/29/04	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	ND	0.28		11	n	#	*	н	
Surrogate: Octacosane		46 %	54-	141	a	"	"	"	S02
0428MW0305 (P406444-05RE1) Water	Sampled: 06/23	/04 12:20	Received:	: 06/23/04	15:40				HT-RE
Diesel Range Organics (C10-C28)	0.64	0.048	mg/l	1	4070005	07/01/04	07/02/04	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	ND	0.24		11	н	H	H	11	
Surrogate: Octacosane		49 %	54-	141	"	, pt	"	#	\$05





Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

### Extractable Hydrocarbons by EPA 8015B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0428MW0406 (P406444-06) Water	Sampled: 06/23/04	13:20 Rece	ived: 06/	23/04 15:4	10				
Diesel Range Organics (C10-C28)	1.1	0.049	mg/l	1	4060548	06/25/04	06/28/04	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	ND	0.25	"	п	н	n	#	н	
Surrogate: Octacosane		87 %	54-	141	"	"	#	B	
0428MW0507 (P406444-07) Water	Sampled: 06/23/04	13:45 Rece	ived: 06/	23/04 15:4	10				.=-
Diesel Range Organics (C10-C28)	ND	0.048	mg/l	1	4060548	06/25/04	06/28/04	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	ND	0.24	**	**	H		4	"	
Surrogate: Octacosane		88 %	54-	141	п	п	B	п	





Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

## Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Petaluma

#### Reporting Analyte Result Analyzed Method Notes Limit Units Dilution Ratch Prepared 0428MW0103 (P406444-03RE1) Water Sampled: 06/23/04 10:15 Received: 06/23/04 15:40 ND 1.0 4070093 07/07/04 07/07/04 **EPA 8260B** Tert-amyl methyl ether ug/I 0.50 Benzene ND Tert-butyl alcohol ND 20 ND 1.0 Di-isopropyl ether 1,2-Dibromoethane (EDB) ND 0.50 1,2-Dichloroethane ND 0.50 Ethanol ND 100 Ethylbenzene ND 0.50 Ethyl tert-butyl ether ND 1.0 Methyl tert-butyl ether ND 0.50 Toluene ND 0.50 Xylenes (total) ND 0.50 Surrogate: Dibromofluoromethane 119% 84-122 Surrogate: 1,2-Dichloroethane-d4 74-135 118% Surrogate: Toluene-d8 121% 84-119 S01 Surrogate: 4-Bromofluorobenzene 116% 86-119 0428MW0204 (P406444-04) Water Sampled: 06/23/04 11:25 Received: 06/23/04 15:40 1.0 4070046 07/02/04 07/02/04 EPA 8260B Tert-amyl methyl ether ND ug/l ND 0.50 Benzene Tert-butyl alcohol ND 20 ND Di-isopropyl ether 1.0 1,2-Dibromoethane (EDB) ND0.50 1,2-Dichloroethane ND 0.50 Ethanol ND 100 Ethylbenzene ND 0.50 Ethyl tert-butyl ether ND 1.0 Methyl tert-butyl ether ND 0.50 Toluene ND 0.50 Xylenes (total) ND 0.50 Surrogate: Dibromofluoromethane 118% 84-122

119%

113 %

109 %

74-135

84-119

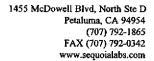
86-119

Sequoia Analytical - Petaluma

Surrogate: 1,2-Dichloroethane-d4

Surrogate: 4-Bromofluorobenzene

Surrogate: Toluene-d8





Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

# Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0428MW0305 (P406444-05RE1) Water	Sampled: 06/2	3/04 12:20	Received:	06/23/04	15:40				R-0
Tert-amyl methyl ether	ND	10	ug/l	10	4070094	07/07/04	07/07/04	EPA 8260B	
Benzene	ND	5.0	**	u	rı	-	"	11	
Tert-butyl alcohol	NĐ	200	¥		п	n	n	11	
Di-isopropyl ether	ND	10	77	"	п	π	**	н	
1,2-Dibromoethane (EDB)	ND	5.0	77	"	Ħ	π	"	"	
1,2-Dichloroethane	ND	5.0	**	"	Ħ	**	π	71	
Ethanol	ND	1000	₹₹	"	ħ	4	Ħ.	"	
Ethylbenzene	ND	5.0	Ħ	"	u	*	Ħ	"	
Ethyl tert-butyl ether	ND	10	**	**	Ħ	"	н	*1	
Methyl tert-butyl ether	ND	5.0	**	"	ti	**	H	**	
Toluene	ND	5.0	**	n	н	H	н	"	
Xylenes (total)	5.6	5.0	*1	*	н	"	н	11	
Surrogate: Dibromofluoromethane		98 %	84-j	122	н	rr	n	"	
Surrogate: 1,2-Dichloroethane-d4		109 %	74-1	135	n	#	"	"	
Surrogate: Toluene-d8		121 %	84-7	119	**	"	u	"	50
Surrogate: 4-Bromofluorobenzene		106 %	86-1	119	n	fr	n	"	
0428MW0406 (P406444-06RE1) Water	Sampled: 06/2	23/04 13:20			15:40				
Tert-amyl methyl ether	ND	1.0	ug/l	1	4070094	07/07/04	07/07/04	EPA 8260B	
Benzene	ND	0.50	77	**	п	•	U	π	
Tert-butyl alcohol	ND	20	स	н	11	4	н	π	
Di-isopropyl ether	ND	1.0	π	**	Ħ	"	н	**	
1,2-Dibromoethane (EDB)	ND	0.50	**	**	11	**	11	я	
1,2-Dichloroethane	ND	0.50	Ħ	**	. н	"	п	n	
Ethanol	ND	100	**	**	ń	"	11	**	
Ethylbenzene	0.67	0.50	Ħ	Ħ	n	**	п	**	
Ethyl tert-butyl ether	ND	1.0	n	"	п	**	11	**	
Methyl tert-butyl ether	ND	0.50	Ħ	**	н	FF	н	**	
Toluene	ND	0.50	#	н	н		11	11	
Xylenes (total)	1.2	0.50	**	*	"	,,,	и	**	
Surrogate: Dibromofluoromethane		97%	84-1	122	н	п	п	F#	
		107 %	74-1		n	#	,,	н	
Surrogate: 1,2-Dichloroethane-d4									
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8		145 %	84-1		n	"	"	"	SO

Sequoia Analytical - Petaluma



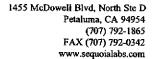


Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

# Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Petaluma

Analyte	•	orting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
0428MW0507 (P406444-07) Water	Sampled: 06/23/04 13:45	Rece	ived: 06/2	3/04 15:4	iO			•	
Tert-amyl methyl ether	ND	1.0	ug/l	1	4070046	07/02/04	07/02/04	EPA 8260B	
Benzene	ND	0.50	**		w	*	H	11	
Tert-butyl alcohol	ND	20	10		π	#	H	н	
Di-isopropyl ether	ND	1.0	*	**	#	10	"	rr	
1,2-Dibromoethane (EDB)	ND	0.50	स	-	*	11	"	tt	
1,2-Dichloroethane	ND	0.50	π	н	#	H	"	**	
Ethanol	ND	100	**	**	*	ø	"	**	
Ethylbenzene	ND	0.50	**	**	•	*	"	**	
Ethyl tert-butyl ether	ND	1.0	π	#	**	#	я	**	
Methyl tert-butyl ether	ND	0.50	"	**	*	u	π	11	
Toluene	ND	0.50	19	"	н	11	47	*	
Xylenes (total)	ND	0.50	н	"	11	11	π	"	
Surrogate: Dibromofluoromethane	12	21 %	84-1.	22	"	"	*	п	
Surrogate: 1,2-Dichloroethane-d4	I	20 %	74-1.	3 <i>5</i>	**		*	"	
Surrogate: Toluene-d8	1.	13 %	84-1	19	"	1¢	*	ff	
Surrogate: 4-Bromofluorobenzene	10	09 %	86-1	19	*	"	"	•	



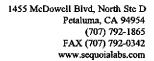


Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

# Purgeable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Petaluma

İ		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4060651 - EPA 5030B, waters	-									
Blank (4060651-BLK1)				Prepared	& Analyzo	ed: <b>0</b> 6/30/	04			
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Surrogate: 4-Bromosluorobenzene	283		n	300		94	65-135			
Laboratory Control Sample (4060651-B	S1)			Prepared	& Analyze	d: 06/30/	04			
Gasoline Range Organics (C6-C10)	2170	- 50	ug/l	2750		79	65-135			
Surrogate: 4-Bromofluorobenzene	274		"	300		91	65-135			
Matrix Spike (4060651-MS1)	Source: P4	106451-07		Prepared	& Analyz	ed: 06/30/	04			
Gasoline Range Organics (C6-C10)	2110	50	ug/l	2750	14	76	65-135			
Surrogate: 4-Bromofluorobenzene	277		#	300		92	65-135			
Matrix Spike Dup (4060651-MSD1)	Source: P406451-07 Prepared & Analyzed: 06/30/04									
Gasoline Range Organics (C6-C10)	2130	50	ug/l	2750	14	77	65-135	0.9	20	
Surrogate: 4-Bromofluorobenzene	281		"	300		94	65-135			



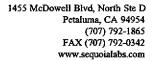


Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

# Extractable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4060548 - EPA 3510C					_					
Blank (4060548-BLK1)				Prepared:	06/25/04	Analyzed	l: 06/29/04			
Diesel Range Organics (C10-C28)	ND	0.050	mg/l							
Motor Oil Range Organics (C24-C36)	ND	0.25	**							
Surrogate: Octacosane	0.0457		*	0.0500		91	54-141			
Laboratory Control Sample (4060548-B	S1)			Prepared:	06/25/04	Analyzed	1: 06/28/04			
Diesel Range Organics (C10-C28)	0.847	0.050	mg/l	1.00		85	49-102			
Surrogate: Octacosane	0.0547		"	0.0500		109	54-141			
Laboratory Control Sample Dup (40605	548-BSD1)			Prepared:	06/25/04	Analyzed	I: 06/28/04			
Diesel Range Organics (C10-C28)	0.785	0.050	mg/l	1.00		78	49-102	8	20	
Surrogate: Octacosane	0.0498		"	0.0500		100	54-141			
Batch 4070005 - EPA 3510C										
Blank (4070005-BLK1)				Prepared:	07/01/04	Analyzed	1: 07/02/04			
Diesel Range Organics (C10-C28)	ND	0.050	mg/l	-						
Motor Oil Range Organics (C24-C36)	ND	0.25	n							
Surrogate: Octacosane	0.0434		μ	0.0500		87	54-141			
Laboratory Control Sample (4070005-E	BS1)			Prepared:	07/01/04	Analyzed	1: 07/02/04			
Diesel Range Organics (C10-C28)	0.928	0.050	mg/l	1.00		93	49-102			
Surrogate: Octacosane	0.0495		**	0.0500		99	54-141			
Laboratory Control Sample Dup (40700	005-BSD1)			Prepared:	07/01/04	Analyzed	l: 07/02/04			
Diesel Range Organics (C10-C28)	0.908	0.050	mg/l	1.00		91	49-102	2	20	
Surrogate: Octacosane	0.0500		"	0.0500		100	54-141			





Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

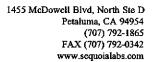
P406444 Reported: 07/16/04 16:22

# **Volatile Organic Compounds by EPA Method 8260B - Quality Control**

### Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4070046 - EPA 5030B waters										
Blank (4070046-BLK1)				Prepared	& Analyze	d: 07/02/0	)4		_	
Tert-amyl methyl ether	ND	1.0	ug/l	-						
Benzene	ND	0.50	11							
Tert-butyl alcohol	ND	20	н							
Di-isopropyl ether	ND	1.0	Ħ							
1,2-Dibromoethane (EDB)	ND	0.50	ti							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	**							
Ethylbenzene	ND	0.50	**							
Ethyl tert-butyl ether	ND	1.0	**							
Methyl tert-butyl ether	ND	0.50	**							
Toluene	ND	0.50	**							
Xylenes (total)	ND	0.50	"							
Surrogate: Dibromofluoromethane	5.90		n	5.00		118	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.89		•	5.00		118	74-135			
Surrogate: Toluene-d8	5.64		"	5.00		113	84-119			
Surrogate: 4-Bromofluorobenzene	5.45		•	5.00		109	86-119			
Laboratory Control Sample (4070046-BS1)				Prepared	& Analyz	ed: 07/02/0	)4			
Tert-amyl methyl ether	5.20	1.0	ug/l	5.00		104	78-117			
Benzene	5.04	0.50	**	5.00		101	81-118			
Tert-butyl alcohol	98.8	20	11	100		99	60-147			
Di-isopropyl ether	5.73	1.0	**	5.00		115	70-125			
1,2-Dibromoethane (EDB)	5.58	0.50	n	5.00		112	85-125			
1,2-Dichloroethane	5.48	0.50	11	5.00		110	77-126			
Ethanol	128	100	п	100		128	55-200			
Ethylbenzene	5.28	0.50	u	5.00		106	89-122			
Ethyl tert-butyl ether	5.26	1.0	н	5.00		105	71-120			
Methyl tert-butyl ether	5.27	0.50	n n	5.00		105	70-122			
Toluene	4.91	0.50	II .	5.00		98	84-119			
Xylenes (total)	16.4	0.50	n	15.0		109	86-132			
Surrogate: Dibromofluoromethane	5.96		"	5.00		119	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.79		H	5.00		116	74-135			
Surrogate: Toluene-d8	5.76		"	5.00		115	84-119			
Surrogate: 4-Bromofluorobenzene	5.37		"	5.00		107	86-119			

Sequoia Analytical - Petaluma





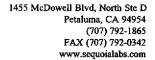
Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<u> </u>	Result	Linut	Omis	Level	RESUIT	70KEC	Linus	Kr D	Linin	Notes
Batch 4070046 - EPA 5030B waters								····		
Matrix Spike (4070046-MS1)	Source: P	406451-07		Prepared	& Analyze	ed: 07/02/0	04			
Tert-amyl methyl ether	5.03	1.0	ug/l	5.00	ND	101	78-117			
Benzene	4.98	0.50	PI	5.00	0.15	97	81-118			
Tert-butyl alcohol	107	20	Rt.	100	ND	107	60-147			
Di-isopropyl ether	5.48	1.0	**	5.00	ND	110	70-125			
1,2-Dibromoethane (EDB)	5.37	0.50	P	5.00	ND	107	85-125			
1,2-Dichloroethane	6.25	0.50	**	5.00	0.54	114	77-126			
Ethanol	101	100	17	100	ND	101	55-200			
Ethylbenzene	5.10	0.50	**	5.00	ND	102	89-122			
Ethyl tert-butyl ether	5.06	1.0	**	5.00	ND	101	71-120			
Methyl tert-butyl ether	6.20	0.50	#1	5.00	0.44	115	70-122			
Toluene	4.76	0.50	••	5.00	ND	95	84-119			
Xylenes (total)	15.9	0.50	"	15.0	ND	106	86-132			
Surrogate: Dibromofluoromethane	5.95		"	5.00		119	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.88		rr	5.00		118	74-135			
Surrogate: Toluene-d8	5.74		rr	5.00		115	84-119			
Surrogate: 4-Bromofluorobenzene	5.31		r	5.00		106	86-119			
Matrix Spike Dup (4070046-MSD1)	Source: P	406451-07		Prepared	& Analyze	ed: 07/02/0	04			
Tert-amyl methyl ether	5.06	1.0	ug/l	5.00	ND	101	78-117	0.6	20	
Benzene	4.87	0.50	"	5.00	0.15	94	81-118	2	20	
Tert-butyl alcohol	101	20	**	100	ND	101	60-147	6	20	
Di-isopropyl ether	5.44	1.0	*	5.00	ND	109	70-125	0.7	20	
1,2-Dibromoethane (EDB)	5.43	0.50	+r	5.00	ND	109	85-125	1	20	
1,2-Dichloroethane	6.20	0.50	••	5.00	0.54	113	77-126	0.8	20	
Ethanol	112	. 100	er	100	ND	112	55-200	10	20	
Ethylbenzene	5.00	0.50	n	5.00	ND	100	89-122	2	20	
Ethyl tert-butyl ether	5.15	1.0	**	5.00	ND	103	71-120	2	20	
Methyl tert-butyl ether	6.26	0.50	**	5.00	0.44	116	70-122	1	20	
Toluene	4.66	0.50	<b>er</b>	5.00	ND	93	84-119	2	20	
Xylenes (total)	15.3	0.50	**	15.0	ND	102	86-132	4	20	
Surrogate: Dibromofluoromethane	5.94		п	5.00		119	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.94		rr	5.00		119	74-135			
Surrogate: Toluene-d8	5.77		"	5.00		115	84-119			
Surrogate: 4-Bromofluorobenzene	5.30		er	5.00		106	86-119			

Sequoia Analytical - Petaluma





Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

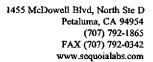
P406444 Reported: 07/16/04 16:22

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

I							•			
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (4070093-BLK1)		Prepared & Analyzed: 07/07/04							
Tert-amyl methyl ether	ND	1.0	ug/i						
Benzene	ND	0.50	*1						
Tert-butyl aicohol	ND	20	**						
Di-isopropyl ether	ND	1.0	**						
1,2-Dibromoethane (EDB)	ND	0.50	**						
1,2-Dichloroethane	ND	0.50	M				•		
Ethanol	ND	100	**						
Ethylbenzene	ND	0.50	*						
Ethyl tert-butyl ether	ND	1.0	47						
Methyl tert-butyl ether	ND	0.50	**						
Toluene	ND	0.50	**						
Xylenes (total)	ND	0.50	11						
Surrogate: Dibromofluoromethane	5.74		"	5.00	115	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.89		"	5.00	118	74-135			
Surrogate: Toluene-d8	5.76		**	5.00	115	84-119			
Surrogate: 4-Bromofluorobenzene	5.02		n	5.00	100	86-119			
Laboratory Control Sample (4070093-B	S1)			Prepared & Analyzed: 07/07/04					
Fert-amyl methyl ether	4.48	1.0	ug/l	5.00	90	78-117			
Benzene	5.17	0.50	**	5.00	103	81-118			
Tert-butyl alcohol	96.5	20	**	100	96	60-147			
Di-isopropyl ether	4.76	1.0	90	5.00	95	70-125			
1,2-Dibromoethane (EDB)	4.89	0.50	11	5.00	98	85-125			
1,2-Dichloroethane	5.96	0.50	"	5.00	119	77-126			
Ethanol	180	100	11	100	180	55-200			
Ethylbenzene	5.03	0.50	n	5.00	101	89-122			
Ethyl tert-butyl ether	4.77	1.0	11	5.00	95	71-120			
Methyl tert-butyl ether	5.01	0.50	11	5.00	100	70-122			
Toluene	5.21	0.50	n	5.00	104	84-119	•		
Xylenes (total)	14.8	0.50	17	15.0	99	86-132			
Surrogate: Dibromofluoromethane	6.11		,,	5.00	122	84-122			
Surrogate: 1,2-Dichloroethane-d4	6.32		. <b>n</b>	5.00	126	74-135			
Surrogate: Toluene-d8	5.79		n	5.00	116	84-119			
Surrogate: 4-Bromofluorobenzene	5,05		H	5.00	101	86-119			

Sequoia Analytical - Petaluma





Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

Spike

Source

%REC

P406444 Reported: 07/16/04 16:22

RPD

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

Reporting

		Keporung		Spike	зошес		MICLO		KID	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4070093 - EPA 5030B waters										
Matrix Spike (4070093-MS1)	Source: P4	106489-01		Prepared	& Analyze					
Tert-amyl methyl ether	96.6	20	ug/l	100	ND	97	78-117			
Benzene	104	10	Ħ	100	ND	104	81-118			
Tert-butyl alcohol	2050	400	Ħ	2000	ND	102	60-147			
Di-isopropyl ether	98.4	20	11	100	ND	98	70-125			
1,2-Dibromoethane (EDB)	100	10	11	100	ND	100	85-125			
1,2-Dichloroethane	125	10	н .	100	ND	125	77-126			
Ethanol	2560	2000	Ħ	2000	ND	128	55-200			
Ethylbenzene	110	10	н	100	3.1	107	89-122			
Ethyl tert-butyl ether	101	20	н	100	ND	101	71-120			
Methyl tert-butyl ether	113	10	Ħ	100	ND	113	70-122			
Toluene	109	10	tr	100	ND	109	84-119			
Xylenes (total)	312	10	**	300	ND	104	86-132			
Surrogate: Dibromofluoromethane	6.27		"	5.00		125	84-122	•		50
Surrogate: 1,2-Dichloroethane-d4	6.45		"	5.00		129	74-135			
Surrogate: Toluene-d8	5.86		п	5.00		117	84-119			
Surrogate: 4-Bromofluorobenzene	5.19		"	5.00		104	86-119			
Matrix Spike Dup (4070093-MSD1)	Source: P	106489-01		Prepared	& Analyzo	d: 07/07/	04			
Tert-amyl methyl ether	99.8	20	ug/l	100	ND	100	78-117	3	20	
Benzene	106	10	N	100	ND	106	81-118	2	20	
Tert-butyl alcohol	2130	400	**	2000	ND	106	60-147	4	20	
Di-isopropyl ether	103	20		100	ND	103	70-125	5	20	
1,2-Dibromoethane (EDB)	105	10	••	100	ND	105	85-125	5	20	
1,2-Dichloroethane	126	10	**	100	ND	126	77-126	0.8	20	
Ethanol	2660	2000	11	2000	ND	133	55-200	4	20	
Ethylbenzene	112	10	**	100	3.1	109	89-122	2	20	
Ethyl tert-butyl ether	106	20	**	100	ND	106	71-120	5	20	
Methyl tert-butyl ether	114	10	Ħ	100	ND	114	70-122	0.9	20	
Toluene	111	10	**	100	ND	111	84-119	2	20	
Xylenes (total)	325	10	1*	300	ND	108	86-132	4	20	
Surrogate: Dibromofluoromethane	6.19		н	5.00		124	84-122			SO
Surrogate: 1,2-Dichloroethane-d4	6.10		"	5.00		122	74-135			
Surrogate: Toluene-d8	5.77		"	5.00		115	84-119			
Surrogate: 4-Bromofluorobenzene	5.09		"	5.00		102	86-119			





Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

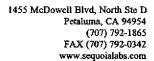
P406444 Reported: 07/16/04 16:22

# Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 4070094 - EPA 5030B waters									
Blank (4070094-BLK1)				Prepared & An	alyzed: 07/07/	04			
Tert-amyl methyl ether	ND	1.0	ug/l						
Benzene	ND	0.50	**						
Tert-butyl alcohol	ND	20							
Di-isopropyl ether	ND	1.0	**						
1,2-Dibromoethane (EDB)	ND	0.50	Ħ						
1,2-Dichloroethane	ND	0.50	н						
Ethanol	ND	100	π						
Ethylbenzene	ND	0.50	•						
Ethyl tert-butyl ether	ND	1.0	"						
Methyl tert-butyl ether	ND	0.50	n						
Toluene	ND	0.50	11						
Xylenes (total)	ND	0.50	и						
Surrogate: Dibromofluoromethane	5.18		"	5.00	104	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.57		n	5.00	111	74-135			
Surrogate: Toluene-d8	4.88		n	5.00	98	84-119			
Surrogate: 4-Bromofluorobenzene	5. <b>24</b>		"	5.00	105	86-119			
Laboratory Control Sample (4070094-E	S1)			Prepared & Analyzed: 07/07/04					
Tert-amyl methyl ether	4.75	1.0	ug/l	5.00	95	78-117			
Benzene	5.30	0.50	**	5.00	106	81-118			
Tert-butyl alcohol	103	20	**	100	103	60-147			
Di-isopropyl ether	4.88	1.0	*	5.00	98	70-125			
1,2-Dibromoethane (EDB)	5.12	0.50	*	5.00	102	85-125			
1,2-Dichloroethane	6.19	0.50	**	5.00	124	77-126			
Ethanol	106	100		100	106	55-200			
Ethylbenzene	4.83	0.50	Ħ	5.00	97	89-122			
Ethyl tert-butyl ether	4.70	1.0	**	5.00	94	71-120			
Methyl tert-butyl ether	4.59	0.50	11	5.00	92	70-122			
Toluene	5.54	0.50	н	5.00	111	84-119			
Xylenes (total)	15.7	0.50	н	15.0	105	86-132			
Surrogate: Dibromofluoromethane	5.38		r	5.00	108	84-122			
Surrogate: 1,2-Dichloroethane-d4	6.04		"	5.00	121	74-135			
Surrogate: Toluene-d8	5.24		"	5.00	105	84-119			
Surrogate: 4-Bromofluorobenzene	4.69		r#	5.00	94	86-119			





Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

Spike

Source

%REC

P406444 Reported: 07/16/04 16:22

RPD

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4070094 - EPA 5030B waters		,								
Matrix Spike (4070094-MS1)	Source: P4	06477-12		Prepared	& Analyze	ed: 07/07/0	04			
Tert-amyl methyl ether	48.5	10	ug/l	50.0	ND	97	78-117			
Benzene	99.5	5.0	₩	50.0	48	103	81-118			
Tert-butyl alcohol	977	200	*	1000	ND	98	60-147			
Di-isopropyl ether	50.6	10	"	50.0	ND	101	70-125			
1,2-Dibromoethane (EDB)	50.3	5.0	**	50.0	ND	101	85-125			
1,2-Dichloroethane	59.7	5.0	Ħ	50.0	ND	119	77-126			
Ethanol	1070	1000	19	1000	ND	107	55-200			
Ethylbenzene	46.0	5.0	11	50.0	ND	92	89-122			
Ethyl tert-butyl ether	48.2	10	н	50.0	ND	96	71-120			
Methyl tert-butyl ether	260	5.0	н	50.0	180	160	70-122			QM0
Toluene	51.2	5.0	u	50.0	ND	102	84-119			
Xylenes (total)	154	5.0	Ħ	150	ND	103	86-132			
Surrogate: Dibromofluoromethane	5.22		"	5.00		104	84-122	-	<u> </u>	
Surrogate: 1,2-Dichloroethane-d4	5.66		π	5.00		113	74-135			
Surrogate: Toluene-d8	4.76		11	5.00		95	84-119			
Surrogate: 4-Bromofluorobenzene	4.22		**	5.00		84	86-119			S02
Matrix Spike Dup (4070094-MSD1)	Source: P4	06477-12		Prepared	& Analyz	ed: 07/07/	04			
Tert-amyl methyl ether	52.4	10	ug/l	50.0	ND	105	78-117	8	20	
Benzene	101	5.0	**	50.0	48	106	81-118	1	20	
Tert-butyl aicohol	1070	200	•	1000	ND	107	60-147	9	20	
Di-isopropyl ether	53.0	10	"	50.0	ND	106	70-125	5	20	
1,2-Dibromoethane (EDB)	54.4	5.0	#	50.0	ND	109	85-125	8	20	
1,2-Dichloroethane	61.9	5.0	*	50.0	ND	124	77-126	4	20	
Ethanol	1190	1000	н	1000	ND	119	55-200	11	20	
Ethylbenzene	50.1	5.0	**	50.0	ND	100	89-122	9	20	
Ethyl tert-butyl ether	51.5	10		50.0	ND	103	71-120	7	20	
Methyl tert-butyl ether	273	5.0	#	50.0	180	186	70-122	5	20	QM0
Toluene	53.6	5.0	•	50.0	ND	107	84-119	5	20	
Xylenes (total)	165	5.0	**	150	ND	110	86-132	7	20	
Surrogate: Dibromofluoromethane	5.37		n	5.00	.,,-	107	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.70		"	5.00		114	74-135			
Surrogate: Toluene-d8	5.04		"	5.00		101	84-119			
Surrogate: 4-Bromofluorobenzene	4.64		*	5.00		93	86-119			



1455 McDowell Blvd, North Ste D Petahuma, CA 94954 (707) 792-1865 FAX (707) 792-0342 www.sequoialabs.com

MACTEC E&C - Petaluma 5341 Old Redwood Highway, Suite 300 Petaluma CA, 94954 Project:General Commercial
Project Number:Auto Pro-Oakland/4095041620.01
Project Manager:Gary Lieberman

P406444 Reported: 07/16/04 16:22

#### Notes and Definitions

HT-RE	This sample was re-extracted beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
QM01	The spike recovery was above control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
S01	The surrogate recovery was above control limits. The result may still be useful for its intended purpose.
S02	The surrogate recovery was below control limits. The result may still be useful for its intended purpose.
S04	The surrogate recovery for this sample is above control limits due to interference from the sample matrix.
S05	The surrogate recovery for this sample is below control limits due to interference from the sample matrix.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



### CHAIN OF CUSTODY FORM

Seq. No.: No.:

•			N ( B			
<b>X</b>	409504162010	Samplers:	David Brance		ANALYSIS REQUESTED	
Job Number: Name/Location: Project Manager:		uand	Davidator	Gasoline Range Organics 8015B Diesel Range Organics 8015B/ BTEX plus MTBE CCH Title 22 Metals (17)	EThenal	
MATRIX #CONTAIN & PRESE	IERS RV. SAMPLE NUMBER	DATE	STATION DESCRIPTION	Gasoline Range Org Dièsel Range Organ BTEX plus MTBE CCR Title 22 Metals	_ 5	W W W W W
Water Soli Air HrSO. HNO.	YR SEQ	YR MO DAY TIME	DEPTH DEPTH	Gasolina Dieset F BTEX p CCR Tit	EPA 80218 EPA 82608 EPA 82608 EPA 82608 TPH TPH TPH EPH EPH EPH EPH EPH EPH EPH EPH EPH E	TAME ETAK EDPE TOB
X 2 6	C42BCH030	2 0406230825	3		XXXXX	XXXXXX
X Z G	0428Mw020 0428Mw030 0428MW040		5		X X X X X	X
X Z 6 X Z	04284W060 04284W060		7		XXXX	XXXXXX
	ADDITIONAL INFORMA	TION :-	СН	AIN OF CUSTO	DY RECORD	
SAMPLE NUMBI	•	ROUND TIME/REMARKS	Retriguished By, (signature)	AVI & Brow (Pout Name)	(Company)	. Dute/Time
			Mill Hulliam 7 Neceived By. (signature)  Ruffinguistred By. (signature)	(Print Name)	(Company)	Date/Time
	STA,	WHILD 7HI	Received By. (signature)	(Print Name)	(Company)	Date/Titre
			Rekinquished By (signature)  Received By: (signature)	(Print Name)	(Company)	Date/Time Dake/Time
			Received By: (signature)  Method of Shipment:	(Print Name)	(Company)	Oate/fine

Laboratory Copy White Project Office Copy Yellow Field or Office Copy Pink

00291 1

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	P4004	actec plat yy		DATE Received at Lab: TIME Received at Lab: LOG IN DATE:	6/23/04 1540 6-24-04		(Drinking wa regulatory pu (Wastewater) regulatory pu	rposes: YES/NO for
CIRCLE THE APPRO	PRIATE RESPONSE	LAB SAMPLE#	#	CLIENT ID	DESCRIPTION	<u> </u>	SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent			0428CH0201	2411		6123	
2. Chain-of-Custody	Prescrit / Absent*			0428MW/0103	Byp. Zxila			
3. Traffic Reports or Packing List:	Present Absent			305				
4. Airbill:	Airbill / Sticker Present / Ausent			406	<b>1</b>			
5. Airbill #:				V 608	MARTIA	4	4	
6. Sample Labels:	Present / Absent		<u></u>					
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody							
8. Sample Condition;	Intact / Broken* / Leaking*							
9. Does information on					D//	<del>}</del>		
custody reports, traffic reports and sample						1		
labels agree?	Yes No*				$\times$			
10. Sample received within	- i				1	7	1/	
hold time:	Mes y No*	<u> </u>		1			1//	
11. Proper Preservatives used:	Res / No*		1	1				<u>/_/</u>
12. Temp Rec. at Lab:	3.6.			X			1	
(Acceptance range for samp	les						+	
requiring thermal pres.:4+/-						1		
		*If Circ	led, c	ontact Project Manag	er and attach rec	ord of res	olution.	

Sample Receipt Log Revision 2.1 (11/10/00) Replaces Revision 2 (11/06/00)

Page \_\_\_\_\_ of \_\_\_\_

Job Number: 409504 1620, 01
Date: 6(23/09
To: 650 Cy Liebering
Initials: DS6

Well Name	Date	Time	First Reading	Second Reading	Initials	Comments	
MWCh-2	0/23/04	0640	12.11	12,11	DSB		
mwch-3		0750	15,40	15.40			
MW-1		0850	12.55	12.55			
mw-7		09:00	11.90	11.90			
Mw - 3		0903	11,62	11.62			
Mus-4	1 1	0910	11,77	11,77			
Mw-5			_			In the street - No Christy I	box Lid
					4	day down 8" - Ho wall	was found
						·	
		<del> </del>					

**September 2004 Monitoring Results** 



1455 McDowell Blvd, North Ste D Petaluma, CA 94954 (707) 792-1865 FAX (707) 792-0342 www.sequoiałabs.com

7 October, 2004

Michael Burns MACTEC E&C - Petaluma 5341 Old Redwood Highway, Suite 300 Petaluma, CA 94954

RE: General Commercial Work Order: P409389

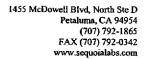
Enclosed are the results of analyses for samples received by the laboratory on 09/22/04 14:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stay P. Hoch

Stacy P. Hoch Dept Manager - Client Services

CA ELAP Certificate #2374

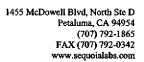




Project:General Commercial Project Number:Auto Pro / 4095041620.02 Project Manager:Michael Burns P409389 Reported: 10/07/04 11:08

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
043922001	P409389-01	Water	09/22/04 07:30	09/22/04 14:10
043922002	P409389-02	Water	09/22/04 09:15	09/22/04 14:10
043922003	P409389-03	Water	09/22/04 10:10	09/22/04 14:10
043922004	P409389-04	Water	09/22/04 11:00	09/22/04 14:10
043922005	P409389-05	Water	09/22/04 12:00	09/22/04 14:10
043922006	P409389-06	Water	09/22/04 11:30	09/22/04 14:10





Project:General Commercial
Project Number: Auto Pro / 4095041620.02
Project Manager: Michael Burns

P409389 Reported: 10/07/04 11:08

### Purgeable Hydrocarbons by EPA 8015B Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
043922002 (P409389-02) Water	Sampled: 09/22/04 09:15	Receive	d: 09/22	/04 14:10		•			
Gasoline Range Organics (C6-C1	0) 260	50	ug/l	1	4090730	09/29/04	09/29/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		99 %	80.4	4-110	7	*	~	"	
043922003 (P409389-03) Water	Sampled: 09/22/04 10:10	Receive	d: 09/22	/04 14:10					
Gasoline Range Organics (C6-C10	) ND	50	ug/l	1	4090730	09/29/04	09/29/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene	_	98 %	80.	4-110	"	w	•	#	
043922004 (P409389-04) Water	Sampled: 09/22/04 11:00	Receive	d: 09/22	/04 14:10					
Gasoline Range Organics (C6-C1	0) 13000	100	ug/l	2	4090730	09/29/04	09/29/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		187 %	80.	4-110	"	n	"	tt	201
043922005 (P409389-05) Water	Sampled: 09/22/04 12:00	Receive	d: 09/22	2/04 14:10					
Gasoline Range Organics (C6-C1	0) 1800	50	ug/l	1	4090730	09/29/04	09/29/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		106 %	80.	4-110	**	n		n	
043922006 (P409389-06) Water	Sampled: 09/22/04 11:30	Receive	d: 09/22	2/04 14:10					
Gasoline Range Organics (C6-C10	) ND	50	ug/l	1	4090730	09/29/04	09/29/04	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		101 %	80	4-110	н	rr	"	n	·





Project:General Commercial
Project Number:Auto Pro / 4095041620.02
Project Manager:Michael Burns

P409389 Reported: 10/07/04 11:08

### Extractable Hydrocarbons by EPA 8015B Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
043922001 (P409389-01) Water Sample	d: 09/22/04 07:30	Receive	ed: 09/22/	04 14:10					
Diesel Range Organics (C10-C28)	0.074	0.050	mg/i	1	4090595	09/23/04	10/02/04	EPA 8015B- SVOA	
Motor Oil Range Organics (C24-C36)	ND	0.25	н	u	tt	¥	Ħ	н	
Surrogate: Octacosane		85 %	54-	141	Ħ	"	"	n	
043922002 (P409389-02) Water Sample	d: 09/22/04 09:15	Receive	ed: 09/22/	04 14:10					
Diesel Range Organics (C10-C28)	0.41	0.051	mg/l	1	4090595	09/23/04	09/30/04	EPA 8015B- SVOA	
Motor Oil Range Organics (C24-C36)	ND	0.25	н	- 11	11	*	#		
Surrogate: Octacosane		96 %	54-	141	"	п	•	"	
043922003 (P409389-03) Water Sample	d: 09/22/04 10:10	Receive	ed: 09/22/	04 14:10					
Diesel Range Organics (C10-C28)	0.095	0.052	mg/l	1	4090595	09/23/04	10/02/04	EPA 8015B- SVOA	
Motor Oil Range Organics (C24-C36)	ND	0.26	**	**	*	n		"	
Surrogate: Octacosane		80 %	54-	141	• "	"	*	<i>p</i>	
043922004 (P409389-04) Water Sample	d: 09/22/04 11:00	Receive	d: 09/22/	04 14:10					
Diesel Range Organics (C10-C28)	2.5	0.053	mg/l	1	4090595	09/23/04	09/30/04	EPA 8015B- SVOA	
Motor Oil Range Organics (C24-C36)	ND ND	0.26	11		н	И	"	н	
Surrogate: Octacosane		94 %	54-	141	"	"	"	"	
043922005 (P409389-05) Water Sample	d: 09/22/04 12:00	Receive	:d: 09/22/	04 14:10					
Diesel Range Organics (C10-C28)	1.6	0.052	mg/l ·	1	4090595	09/23/04	10/01/04	EPA 8015B- SVOA	
Motor Oil Range Organics (C24-C36)	ND	0.26	. "	H			#		
Surrogate: Octacosane		125 %	54-	141	H	"	#	"	





Project:General Commercial
Project Number:Auto Pro / 4095041620.02
Project Manager:Michael Burns

P409389 Reported: 10/07/04 11:08

## Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
043922002 (P409389-02) Water	Sampled: 09/22/04 09:15	Receive	d: 09/22/04	14:10					R-0:
Tert-amyl methyl ether	ND	2.0	ug/l	2	4100086	10/05/04	10/05/04	EPA 8260B	
Benzene	ND	1.0	н		н	H	n	Ħ	
Tert-butyl alcohol	ND	40	п	11	11	*	n	Ħ	
Di-isopropyl ether	ND	2.0	п	**	**	**	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	rt	**	**	**	"	**	
1,2-Dichloroethane	ND	1.0	rr .	**	н	**	"	н	
Ethanol	ND	200	R	#		"	"	**	
Ethylbenzene	ND	1.0	rr	**	14	**	"	77	•
Ethyl tert-butyl ether	ND	2.0	"	*	"	"	W	77	
Methyl tert-butyl ether	ND	1.0		**	**	**	**	н	
Toluene	ND	1.0	**	**	*	**	**	41	
Xylenes (total)	ND	1.0	11	"	#	#	**		
Surrogate: Dibromofluoromethane		106 %	84-12	2	~	,,	~	**	
Surrogate: 1,2-Dichloroethane-d4		112%	74-13	5	"	"	rr	#	
Surrogate: Toluene-d8		122 %	84-11	9	~	"	"	n	SO.
Surrogate: 4-Bromofluorobenzene		113%	86-11	9	*	н	"	"	
043922003 (P409389-03) Water	Sampled: 09/22/04 10:10	Receive	ed: 09/22/04	14:10					
Tert-amyl methyl ether	ND	1.0	ug/l	1	4100086	10/05/04	10/05/04	EPA 8260B	
Benzene	ND	0.50	11	H	u		11	n	
Tert-butyl alcohoi	ND	20	11	н	41	10	11	н	
Di-isopropyl ether	ND	1.0	И	FF	ŧI		н	н	
1,2-Dibromoethane (EDB)	ND	0.50	11	**	11		11	н	
1,2-Dichloroethane	ND	0.50	н	*	#1	11	Ħ	н	
Ethanol	ND	100	п	•	**	H	н	n	
Ethylbenzene	ND	0.50	н	**	••	**	li .	**	
Ethyl tert-butyl ether	ND	1.0	n .	11	"	*	Iŧ	b+	
Methyl tert-butyl ether	ND	0.50	н	18	"		Ħ		
Toluene	ND	0.50	**	+	н	"	It	e	
Xylenes (total)	ND	0.50	**	#	**	#	"	**	
Surrogate: Dibromofluoromethane	?	107 %	84-12	?2	r	#	#	"	
Surrogate: 1,2-Dichloroethane-d4		111%	74-13	35	"	"	п	"	
Surrogate: Toluene-d8		117%	84-11	!9	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		109 %	86-11	19	*	w	n	n	
G									





Project:General Commercial
Project Number:Auto Pro / 4095041620.02
Project Manager:Michael Burns

P409389 Reported: 10/07/04 11:08

# Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
043922004 (P409389-04) Water	Sampled: 09/22/04 11:00	Receive	ed: 09/22/04	14:10		~			R-0:
Tert-amyl methyl ether	ND	20	ug/l	20	4100086	10/05/04	10/05/04	EPA 8260B	
Benzene	ND	10	**	"	u		**	•	
Tert-butyl alcohol	ND	400	н	"	н	Ð	40		
Di-isopropyl ether	ND	20	14	**	н	H	**	ħ	
1,2-Dibromoethane (EDB)	ND	10	14	"	н	*	**	tt.	
1,2-Dichloroethane	ND	10	11	#	11	*	*	II .	
Ethanol	ND	2000	11	*	11	tr	*	11	
Ethylbenzene	ND	10	11	*	11		**	n	
Ethyl tert-butyl ether	ND	20	#	*	11	"	**	"	
Methyl tert-butyl ether	ND	10	Ħ	18	11	*	**	11	
Toluene ·	ND	10	**	*	11	**	"	11	
Xylenes (total)	ND	10	#	17	"		n	44	
Surrogate: Dibromofluoromethane		108 %	84-12	2	ir	n	Ħ	п	
Surrogate: 1,2-Dichloroethane-d4		110 %	74-13	5	"	"	"	п	
Surrogate: Toluene-d8		124 %	84-11	9	*	"	#	п	SOL
Surrogate: 4-Bromofluorobenzene		124 %	86-11	9	Ħ	Ħ	"	u	SOL
043922005 (P409389-05) Water	Sampled: 09/22/04 12:00	Receive	d: 09/22/04	14:10					R-05
Tert-amyl methyl ether	ND	10	ug/l	10	4100086	10/05/04	10/05/04	EPA 8260B	
Benzene	ND	5.0	#	íı .	*	**	10	n	
Tert-butyl alcohol	ND	200	Ħ	II .	**	*		II .	
Di-isopropyl ether	ND	10	н	II .	**	*	#1	п	
1,2-Dibromoethane (EDB)	ND	5.0	и	11	tt	Ħ	11	н	
1,2-Dichloroethane	ND	5.0	н	11	Ħ	π	Ħ	н	
Ethanol	ND	1000	н	11	11	*	π	н	
Ethylbenzene	ND	5.0	11	11	fi	ff	Ħ	**	
Ethyl tert-butyl ether	ND	10	н	**	п		#	*	
Methyl tert-butyl ether	ND	5.0	)1	**	11	"	#		
Toluene	ND	5.0	"	**	11		77	**	
Xylenes (total)	ND	5.0	*			n	11	†ı	
Surrogate: Dibromofluoromethane		109 %	84-12	2	"	p	п	"	
Surrogate: 1,2-Dichloroethane-d4		109 %	74-13	5	*	,,	#	H	
Surrogate: Toluene-d8		121 %	84-11	9	•	H	u	н	S01
Surrogate: 4-Bromofluorobenzene		110%	86-11	o	"	,,	"	<i>μ</i>	





Project:General Commercial
Project Number:Auto Pro / 4095041620.02
Project Manager:Michael Burns

Spike

Source

P409389 Reported: 10/07/04 11:08

RPD

%REC

## Purgeable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Petaluma

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 4090730 - EPA 5030B, waters	/EPA 8015B-	VOA									
Blank (4090730-BLK1)				Prepared	& Analyz	ed: 09/29/	<b>'</b> 04				
Gasoline Range Organics (C6-C10)	ND	50	ug/l							•	
Surrogate: 4-Bromofluorobenzene	277		rr	300		92	80.4-110				
Laboratory Control Sample (4090730-B	S1)			Prepared & Analyzed: 09/29/04							
Gasoline Range Organics (C6-C10)	2190	50	ug/l	2750		80	65-135				
Surrogate: 4-Bromofluorobenzene	294		п	300		98	80.4-110			•	
Matrix Spike (4090730-MS1)	Source: P40	09434-03		Prepared	& Analyz	ed: 09/29/	<b>′</b> 04				
Gasoline Range Organics (C6-C10)	2190	50	ug/l	2750	17	79	65-135				
Surrogate: 4-Bromofluorobenzene	306		"	300		102	80.4-110				
Matrix Spike Dup (4090730-MSD1)	Source: P40	19434-03		Prepared .	& Analyz	ed: 09/29/	<b>'04</b>				
Gasoline Range Organics (C6-C10)	2190	50	ug/l	2750	17	79	65-135	0	20		
Surrogate: 4-Bromofluorobenzene	304		*	300		101	80.4-110				





Project:General Commercial Project Number:Auto Pro / 4095041620.02 Project Manager:Michael Burns P409389 Reported: 10/07/04 11:08

## Extractable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4090595 - EPA 3510C / EPA	8015B-SVOA									
Blank (4090595-BLK1)				Prepared:	09/23/04	Analyzed	: 09/30/04			
Diesel Range Organics (C10-C28)	ND	0.050	mg/l							
Motor Oil Range Organics (C24-C36)	ND	0.25	**							
Surrogate: Octacosane	0.0277		"	0.0360		77	54-141			-
Laboratory Control Sample (4090595-1	BS1)			Prepared:	09/23/04	Analyzed	: 09/30/04			
Diesel Range Organics (C10-C28)	0.939	0.050	mg/l	1.00		94	49-102			
Surrogate: Octacosane	0.0322		"	0.0360		89	54-141			
Laboratory Control Sample Dup (4090	595-BSD1)			Prepared:	09/23/04	Analyzed	: 09/30/04			
Diesel Range Organics (C10-C28)	0.990	0.050	mg/l	1.00		99	49-102	5	20	
Surrogate: Octacosane	0.0341		"	0.0360		95	54-141			





Project:General Commercial Project Number:Auto Pro / 4095041620.02 Project Manager:Michael Burns P409389 Reported: 10/07/04 11:08

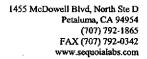
## Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

							<del></del>			
		Reporting		Spike	Source		%REC		RPD	į
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (4100086-BLK1)		Prepared & Analyzed: 10/05/04					
Tert-amyl methyl ether	ND	1.0	ug/l				
Benzene	ND	0.50	**				
Tert-butyl alcohol	ND	20	**				
Di-isopropyl ether	ND	1.0	H				
1,2-Dibromoethane (EDB)	ND	0.50	•				
1,2-Dichloroethane	ND	0.50	**				
Ethanol	ND	100	**				
Ethylbenzene	ND	0.50	**				
Ethyl tert-butyl ether	ND	1.0	**				
Methyl tert-butyl ether	ND	0.50	**				
Coluene	ND	0.50	**				
(Vylenes (total)	ND	0.50	"				
urrogate: Dibromofluoromethane	5.27		п	5.00	105	84-122	
urrogate: 1,2-Dichloroethane-d4	5.37		a.	5.00	107	74-135	
urrogate: Toluene-d8	5.87		N	5.00	117	84-119	
urrogate: 4-Bromofluorobenzene	5.43		r#	5.00	109	86-119	
Laboratory Control Sample (4100086-BS1)				Prepared & Analyzed: 10/05/04			
ert-amyl methyl ether	5.01	1.0	ug/l	5.00	100	78-117	
enzene	5.29	0.50	H.	5.00	106	81-118	
ert-butyl alcohol	82.4	20		100	82	60-147	
i-isopropyl ether	5.27	1.0	**	5.00	105	70-125	
2-Dibromoethane (EDB)	5.62	0.50	n	5.00	112	85-125	
,2-Dichloroethane	5.21	0.50	n	5.00	104	77-126	
thanol	151	100	P.	100	151	55-200	
thylbenzene	5.83	0.50	n	5.00	117	89-122	
hyl tert-butyl ether	4.99	1.0	n	5.00	100	71-120	
fethyl tert-butyl ether	5.05	0.50	**	5.00	101	70-122	
oluene	5,66	0.50	**	5.00	113	84-119	
(ylenes (total)	17.9	0.50	**	15.0	119	86-132	
urrogate: Dibromofluoromethane	5.53		n	5.00	111	84-122	
urrogate: 1,2-Dichloroethane-d4	5.29		ıπ	5.00	106	74-135	
Surrogate: Toluene-d8	5.89		*	5.00	118	84-119	
Surrogate: 4-Bromofluorobenzene	5.54		н	5.00	111	86-119	

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.





Project:General Commercial
Project Number:Auto Pro / 4095041620.02
Project Manager:Michael Burns

Spike

P409389 Reported: 10/07/04 11:08

RPD

%REC

### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Petaluma

Reporting

Analyte	Result	Reporting Limit	Units	Spike Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4100086 - EPA 5030B waters	/ EPA 8260B									
Matrix Spike (4100086-MS1)	Source: P4		Prepared & Analyzed: 10/05/04							
Tert-amyl methyl ether	25.2	5,0	սջ/I	25.0	ND	-101	78-117			
Benzene	27.2	2.5	#	25.0	3.4	95	81-118			
Cert-butyl alcohol	431	100	11	500	54	75	60-147			
Di-isopropyl ether	24.8	5.0	н	25.0	ND	99	70-125			
1,2-Dibromoethane (EDB)	26.2	2.5	н	25.0	ND	105	85-125			
,2-Dichloroethane	24.8	2.5	11	25.0	ND	99	77-126			
Ethanol	632	500	Ħ	500	ND	126	55-200			
Ethylbenzene	35.8	2.5	н	25.0	10	103	89-122			
Ethyl tert-butyl ether	24.6	5.0	н	25.0	ND	98	71-120			
Methyl tert-butyl ether	101	2.5	и	25.0	77	96	70-122	•		
Toluene	25.7	2.5	u	25.0	ND	103	84-119			
Xylenes (total)	89.7	2.5		75.0	9.5	107	86-132			
Surrogate: Dibromofluoromethane	5.61		"	5.00		112	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.55		"	5.00		111	74-135			
urrogate: Toluene-d8	5. <b>9</b> 5		"	5.00		119	84-119			
Surrogate: 4-Bromofluorobenzene	5.44		#	5.00		109	86-119			
Matrix Spike Dup (4100086-MSD1)	Source: P409440-01 Prepared & Analyzed: 10/05/04									
Cert-amyl methyl ether	24.1	5.0	ug/l	25.0	ND	96	78-117	4	20	
Benzene	25.4	2.5	tt	25.0	3.4	88	81-118	7	20	
Fert-butyl alcohol	406	100	н	500	54	70	60-147	6	20	
Di-isopropyl ether	23.6	5.0	Ħ	25.0	ND	94	70-125	5	20	
1,2-Dibromoethane (EDB)	25.7	2.5	н	25.0	ND	103	85-125	2	20	
,2-Dichloroethane	23.7	2.5	н	25.0	ND	95	77-126	5	20	
Ethanol	719	500	tt	500	ND	144	55-200	13	20	
Ethylbenzene	34.0	2.5	tr	25.0	10	96	89-122	5	20	
Ethyl tert-butyl ether	23.5	5.0	16	25.0	ND	94	71-120	5	20	
Methyl tert-butyl ether	95.4	2.5	TP.	25.0	77	74	70-122	6	20	
l'oluene	24.0	2.5	u	25.0	ND	96	84-119	7	20	
Xylenes (total)	84.4	2.5	u	75.0	9.5	100	86-132	6	20	
Surrogate: Dibromofluoromethane	5.56		н	5.00	-	111	84-122			
Surrogate: 1,2-Dichloroethane-d4	5.49		n	5.00		110	74-135			
Surrogate: Toluene-d8	5.95		н	5.00		119	84-119			
Surrogate: 4-Bromofluorobenzene	5.44		n	5.00		109	86-119			





Project:General Commercial
Project Number:Auto Pro / 4095041620.02
Project Manager:Michael Burns

P409389 Reported: 10/07/04 11:08

### Notes and Definitions

S01 The surrogate recovery was above control limits. The result may still be useful for its intended purpose.

R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

		(707)	1 300 Juma, CA 94954 3 793-3800 Sa	HAIN OF CUSTODY C		Lab: Regpuia		
S NI	ımber:	4095	041620.02					
ame/	Location:	Auto	Pro			<u> </u>	MALYSIS REQUEST	ED
``	t Manager:	Gory	<u>Leberman</u> R	Recorder: Dr. 11 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4	ne			
Water Soll	#CONTAINES #KSOV # HZSOV	SAMPLE NUMBER	DATE  YR MO DAY TIME	STATION DESCRIPTION	DEPTH TO DEP	THE TANK		
		174 7	977001	0409 220 336	P409389-01	X		
	12 6			0409720915	OZ		XXXXXX	
H	12 6	042	472003	0409 221010	23	XXXXX	XXXXX	
7		<del>▕</del>		0409721100	04	MXXXX	X X X X X	
X	Z 6			0409221200	05	XXXXX	XXXXXX	
X	7 6		\$\frac{7}{2}\frac{1}{2	0409221230	06			
X		043	12200Q	OHOTICE (ESP				
		<del>                                     </del>	<del>                                     </del>					
		<del>                                      </del>	<del>                                     </del>					
		<del>                                      </del>						
			DITIONAL INFORMATION			CHAIN OF CUSTODY F	RECORD	
	SAMPLE NUMBI	R	s.	,				⊘/ Date/Time
YR	SEQ			ID TIME/ REMARKS	Relinquished By (Signature)	(Print Name)  No. Dav. Cl. Bro	Company)  Company)  Company)	7/22/04
			STANDARD	, TV+T	Received By (Signature)	(Print Name)	(Company)	Dates ; min
					Relinquished By (Signature)	- C. Majnais (Print Name)	(Company)	9-22-001 Date/Time/ 4/
			COOLER CUSTO	DY SEALS INTACT	Received By (Signature)	(Print Name)	(Company)	Date/Time
			·	NOTINTACT	Relinquished By (Signature)	(Print Name)	(Company)	Date/Time
-			COOLSRIEME	RATURE	Received By (Signature)	(Print Name)	(Company)	Date/Time
			**		Method of Shipment:			
	100 P (5/0A)			ratory Copy Project Offic White Yellow		Сору		

France in 15/0/A

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: REC. BY (PRINT) WORKORDER:	Mactec CMI tel P40138	<u> </u>	DATE Received at Lab: TIME Received at Lab: LOG IN DATE:	9-22-04 1410 9-22-04	(Drinking water) for regulatory purposes: YES/NO (Wastewater) for regulatory purposes: YES/NO
CIRCLE THE APPRO	PRIATE RESPONSE	LAB Dash SAMPLE##		CONTAINER DESCRIPTION	pH MATRIX SAMPLED CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken* Present/ Absent*		0430/22001	2XILA 6xpv,2XLA	W   4-22
2. Chain-of-Custody 3. Airbill:	Airbill / Sticker Present / Stosent)		156	DV	
4. Airbill #:					
5. Sample Labels:	Present / Absent				
6. Sample IDs:	Listed / Not Listed	<u> </u>			
7. Sample Condition:	on Chain-of-Custody Intact / Broken* / Leaking*				
8. Does information on cu	stody reports,			1	
traffic reports, and samplabels agree?	(Yas)/ No*				
9. Sample received within hold time:	(e) / No*			XA	AL (/IIII
10. Proper Preservatives used:	Vel/No*		1-1-1		
11. Temperature Blank Rec					
12. Temp Rec. at Lab:	5-2 degrees (			1//	
(Acceptance range for sam					
requiring thermal pres.:4+/-				<u> </u>	
13. Samples collected more	e				
than 4 days ago?	Yes *//No				
	which are the desired and the second and the second of the	*If Circled	, contact Project Mana	ger and attach reco	ord of resolution.

Sample Receipt Log Revision 2.2 (8/30/04) Replaces Revision 2.1 (11/10/00) Effective 9/1/04

Page \_\_\_\_\_ of \_\_\_\_