

BASELINE

COPY

ENVIRONMENTAL CONSULTING

6 November 2000
98381-B0

Ce
Ms. Ann E. Johnston
COBLENTZ, PATCH, DUFFEY & BASS, LLP
222 Kearny Street, 7th Floor
San Francisco, California 94108-4510

Subject: Quarterly Groundwater Monitoring Report, 6623 San Pablo Avenue, Oakland, California - September 2000

ENVIRONMENTAL
PROTECTION
NOV - 7 PM 4:08

Dear Ann:

This report documents quarterly groundwater sampling activities conducted by BASELINE in September 2000 at 6623 San Pablo Avenue in Oakland (Figure 1). Quarterly groundwater monitoring was requested by the Alameda County Environmental Health Services, in a letter dated 17 July 2000.

FIELD ACTIVITIES

On 20 September 2000, groundwater samples were collected from the five monitoring wells on-site (Figure 2). The potential presence of free product was checked and water levels measured in the wells using a dual-interface probe prior to sampling activities. Water levels were measured and recorded to the nearest one-hundredth of a foot. No free product was measured in any of the wells.

The probe was decontaminated between wells by washing with a trisodium phosphate (TSP) solution and rinsing with deionized water. Groundwater was then slowly purged from each well using a peristaltic pump and clean disposable polyethylene tubing until each well was pumped dry or the temperature, pH, and electrical conductivity (EC) of the groundwater appeared to have stabilized.

Due to slow groundwater recovery, the purging of the wells was completed on 19 September 2000, and the samples collected on 20 September 2000. The purged groundwater and decontamination rinsate were stored on-site in sealed and labeled 55-gallon drums.

A peristaltic pump and clean polyethylene tubing was used to collect groundwater samples from each well. The samples were collected in VOA bottles directly from the tubing. The sample bottles were labeled, placed in a cooled container, and submitted under chain-of-custody procedures to Curtis and Tompkins, Ltd., of Berkeley, California, a California-certified laboratory for analysis. The groundwater samples were submitted for TPH as gasoline (EPA Method 8015M), and BTEX

Ms. Ann E. Johnston

6 November 2000

Page 2

and MTBE analyses (EPA Method 8021B). The presence of MTBE was confirmed using EPA Method 8260B. The groundwater sampling forms, which document the sampling activities, are included in Attachment A.

ANALYTICAL RESULTS

The analytical results for groundwater samples collected at the site are summarized in Table 1. The laboratory report for the September 2000 groundwater samples is included in Attachment B. The groundwater samples collected on 20 September 2000 were not analyzed for TPH as diesel. TPH as diesel, which was analyzed as part of the previous four monitoring events, does not appear to be a contaminant of concern for the project site. During the previous monitoring events, TPH as diesel was quantified by the laboratory (at less than 1.0 mg/L) in wells MW-1A, MW-2A, and MW-3A. However, review of the chromatograms for these analyses indicates that diesel is not present, and that the "diesel" quantified by the laboratory is associated with late-eluting gasoline.

Each of the three wells screened in the uppermost water-bearing zone (MW-1A, MW-2A, and MW-3A) was found to contain petroleum hydrocarbons above the laboratory reporting limits (up to 14 mg/L gasoline, 4.0 mg/L benzene, 0.13 mg/L toluene, 0.45 mg/L ethylbenzene, 3.09 mg/L xylenes, and 48 mg/L MTBE) during the September 2000 monitoring event.

The two wells screened in the lower water-bearing zone (MW-1B and MW-3B) did not contain any of the analyzed compounds above laboratory reporting limits, with the exception of 0.002 mg/L (laboratory reporting limit is 0.0005 mg/L) methyl-tert-butyl ether (MTBE) in MW-1B.

GROUNDWATER FLOW DIRECTION

Groundwater elevation data are summarized in Table 2. The groundwater data collected on 19 September 2000 from wells MW-1A, MW-2A, and MW-3A were used to calculate the groundwater flow direction and gradient magnitude using a three-point method. The calculated groundwater flow direction was S53°E with a gradient magnitude of 0.026.

CONCLUSIONS AND RECOMMENDATIONS

- Chemical quality of the uppermost water-bearing zone, characterized by samples collected from MW-1A, MW-2A, and MW-3A, has been impacted by a gasoline release. Based on November 1999 and September 2000 analytical data for samples collected from MW-1B and MW-3B, no significant impact appears to have occurred within the lower water-bearing zone.
- The shallow groundwater flow direction was S53°E with a gradient magnitude of 0.026, as calculated from the three shallow wells.

BASELINE

Ms. Ann E. Johnston

6 November 2000

Page 3

- Purge and decontamination water generated during field activities should be disposed of in accordance with applicable local, State, and Federal requirements.
- The next quarterly groundwater monitoring event should be conducted in December 2000. Groundwater samples should be analyzed for TPH as gasoline (EPA 8015M), BTEX, and MTBE (EPA 8021B). MTBE confirmation by EPA 8260B is not recommended because confirmation during the September 2000 monitoring event indicated that test Method 8021B provided representative results.

If you have any questions or comments, please do not hesitate to contact us.

Sincerely,



Bruce Abelli-Amen
Project Manager



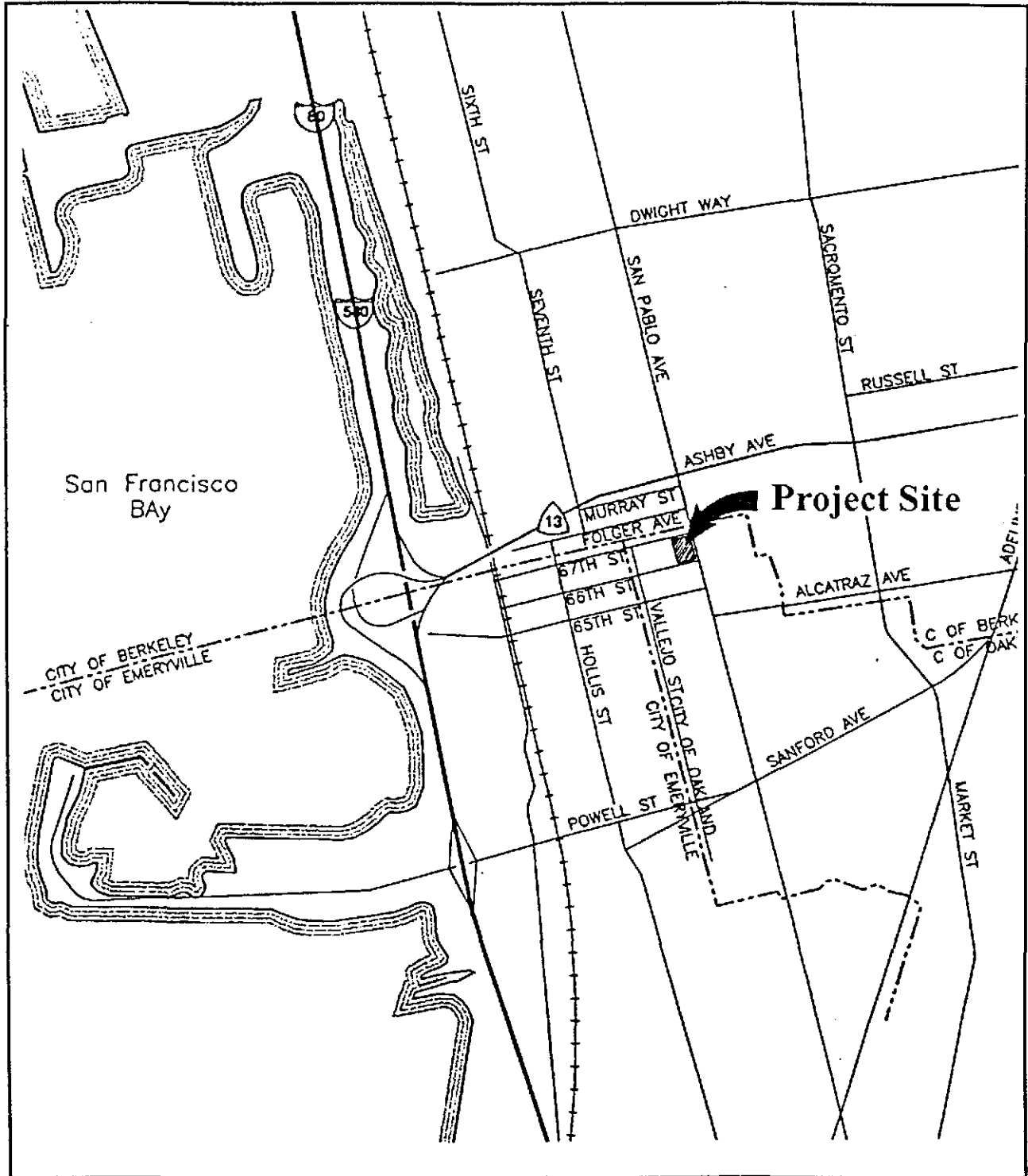
Yane Nordhav
Reg. Geologist #4009
Principal

BAA:YN:cr
Enclosure

cc: Helen Loreto, McDonalds Corporation
Larry Seto, Alameda County Environmental Health Services

REGIONAL LOCATION

Figure 1



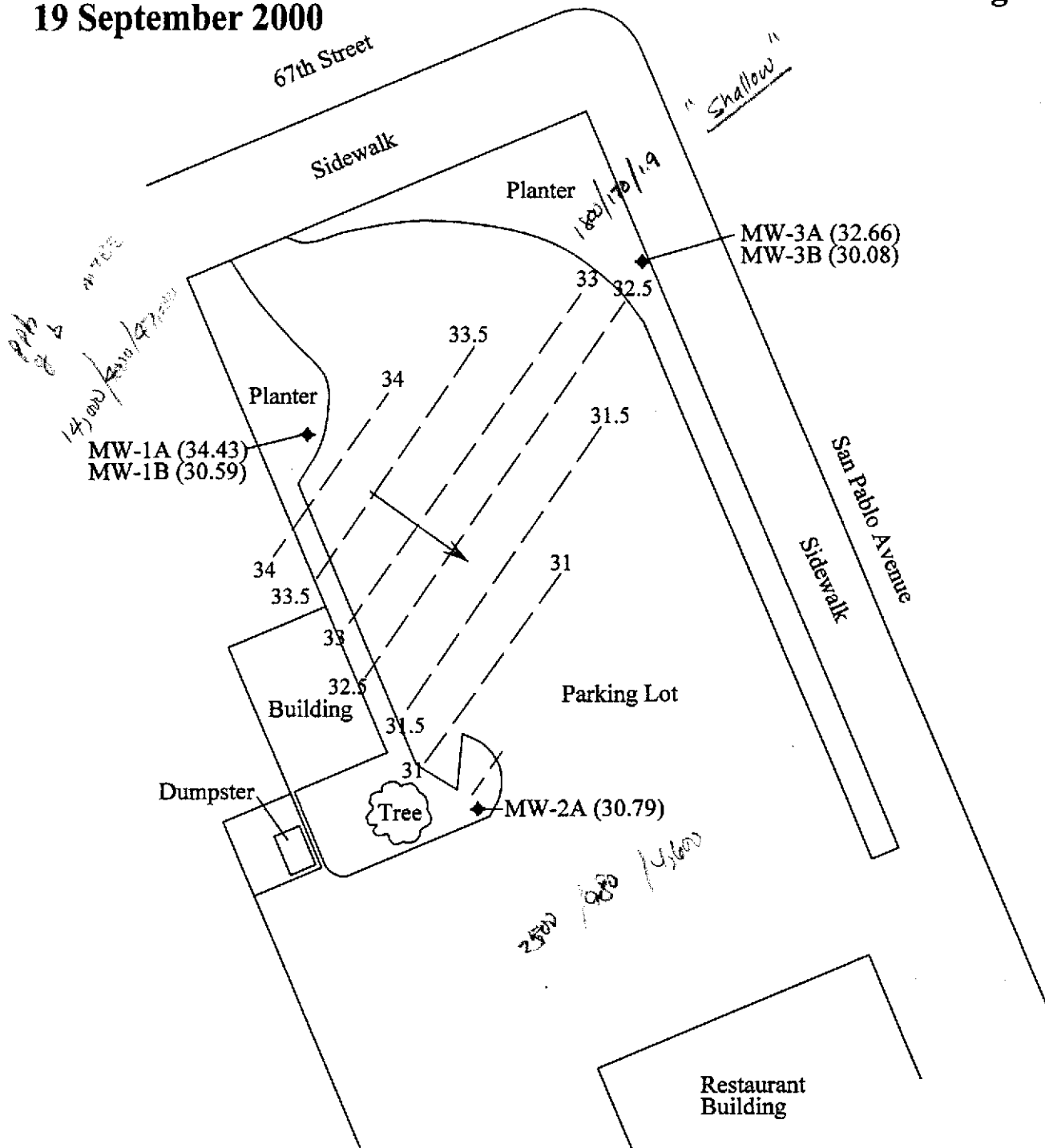
6623 San Pablo Avenue
Oakland, California



GROUNDWATER CONTOUR MAP

19 September 2000

Figure 2



Legend

- Groundwater Flow Direction, September 2000
- Groundwater Elevation Contour (contour interval = 0.5 feet)
- MW-2A ◆ Monitoring Well Location (BASELINE)
- 31.54 Groundwater Elvation from 9/19/00 in feet above City of Oakland datum

6623 San Pablo Avenue
Oakland, California



TABLE I
SUMMARY OF ANALYTICAL RESULTS, GROUNDWATER
6623 San Pablo Avenue, Oakland
(mg/L)

Sample ID	Date	Diesel ¹	Gasoline ¹	Total Lead ²	Benzene ³	Toluene ³	Ethyl-benzene ³	Xylenes ³	MTBE ³	MTBE Confirmation ⁴
<u>Grab Groundwater Samples from Borings:</u>										
KB-8	2/5/97	0.86	0.12	<0.003	0.0013	<0.0005	0.0021	0.001	--	--
KB-9	2/5/97	<0.05	0.47	<0.003	0.0048	<0.0005	0.011	0.0183	--	--
KB-10	2/5/97	3.1	0.45	<0.003	0.03	0.0036	0.013	0.071	--	--
KB-11	2/5/97	0.97	0.82	<0.003	0.1	0.0022	0.028	0.129	--	--
KB-12	2/5/97	0.20	0.096	<0.003	0.02	<0.0005	0.005	0.0122	--	--
<u>Groundwater Samples From Monitoring Wells</u>										
MW-1A	2/8/99 ⁵	--	--	--	--	--	--	--	--	--
	5/21/99	0.56 ⁶	19	--	6.7	0.12	1.2	3.28	38	--
	8/11/99	0.63 ⁶	14	--	3.9	<0.1	0.68	1.65	40	--
	11/8/99	0.36 ⁶	15	--	4.3	<0.13	0.78	1.3	42	--
	9/20/00	--	14	--	4.0	0.063	0.45	0.66	47	48
MW-1B	2/8/99	<0.049	0.059	--	0.0013	<0.0005	0.0055	0.14	0.033	--
	5/21/99	<0.05	<0.05	--	0.00066	<0.0005	<0.0005	<0.0005	0.0041	--
	8/11/99	<0.05	<0.05	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--
	11/8/99	<0.05	<0.05	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--
	9/20/00	--	<0.05	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0035	0.002
MW-2A	2/8/99	0.53 ⁷	3.6	--	0.87	0.079	0.14	0.58	5.1	--
	5/21/99	0.064 ⁶	0.91	--	0.62	0.018	0.038	0.078	4.0	--
	8/11/99	0.130 ⁶	1.4	--	0.96	0.032	0.065	0.093	4.0	--
	11/8/99	0.116	2.5	--	1.1	0.033	0.081	0.142	4.1	--
	9/20/00	--	2.5	--	0.98	0.033	0.073	0.178	6.6	4.6

Table 1 - *continued*

Sample ID	Date	Diesel ¹	Gasoline ¹	Total Lead ²	Benzene ³	Toluene ³	Ethyl-benzene ³	Xylenes ³	MTBE ³	MTBE Confirmation ⁴
MW-3A	2/8/99	0.21 ⁷	24	--	2.1	3.4	1.5	6.1	<0.05	--
	5/21/99	0.23 ⁶	17	--	3.5	3.1	0.85	3.6	0.077	--
	8/11/99	0.80 ⁶	68	--	7.4	6.8	2.9	11.6	<0.2	--
	11/8/99	0.47 ⁶	55	--	5.8	5.4	2.5	10.4	<0.08	--
	9/20/00	--	1.8	--	0.17	0.13	0.082	3.09	<0.002	0.0019
MW-3B	2/8/99	<0.047	0.08	--	0.0015	0.0048	0.0025	0.0061	0.00455	--
	5/21/99	<0.05	<0.05	--	<0.0005	<0.0005	<0.0005	0.00057	<0.002	--
	8/11/99	<0.05	<0.05	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	--
	11/8/99	<0.05	<0.05	--	<0.0005	<0.0005	0.00059	<0.0005	<0.002	--
	9/20/00	--	<0.05	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0005

Notes: <x.x = Compound not detected above laboratory reporting limit (e.g., <0.05 indicates that the constituent was not present in the sample above 0.05 mg/L)
x.x = Compound detected at indicated concentration.
-- = Not analyzed.
Groundwater sampling locations are shown on Figure 2.
Laboratory reports for November 1999 sampling event are included in Appendix B.

¹ Analyzed using EPA Method 8015M.

² Analyzed using EPA Method 6010A.

³ Analyzed using EPA Method 8020 or 8021B.

⁴ Analyzed using EPA Method 8260B.

⁵ Insufficient groundwater in well to allow sample collection.

⁶ Sample exhibits a fuel pattern which does not resemble standard; lighter hydrocarbons were exhibited than the indicated standard.//

⁷ The chromatograms for these samples suggest that the concentrations quantified as diesel may be in the gasoline range of hydrocarbons; the laboratory also indicates that the samples exhibit lighter than diesel patterns.

TABLE 2
GROUNDWATER ELEVATIONS AND GRADIENT MAGNITUDES
6623 San Pablo Avenue, Oakland

Date	MW-1A ¹			MW-1B ²			MW-2A ³			MW-3A ⁴			MW-3B ⁵			Gradient ⁸ ft/ft
	Time	Depth to Ground-water ⁶	Ground-water Elevation ⁷	Time	Depth to Ground-water ⁶	Ground-water Elevation ⁷	Time	Depth to Ground-water ⁶	Ground-water Elevation ⁷	Time	Depth to Ground-water ⁶	Ground-water Elevation ⁷	Time	Depth to Ground-water ⁶	Ground-water Elevation ⁷	
1/15/99	12:44	Dry	--	12:44	21.60	18.35	12:52	7.15	31.77	12:50	7.0	32.76	12:50	22.50	17.29	--
1/19/99	8:11	Dry	--	8:11	9.10	30.85	8:17	7.32	31.60	8:13	7.27	32.49	8:14	8.77	31.02	--
1/19/99	16:58	Dry	--	16:55	26.81 ⁹	13.14	17:82	7.05 ⁹	31.87	17:08	7.79 ⁹	31.97	17:11	26.71 ⁹	13.08	--
1/20/99	8:46	Dry	--	8:43	16.76	23.19	8:50	6.94	31.98	8:55	7.18	32.58	8:58	15.40	24.39	--
1/20/99	17:48	Dry	--	17:44	13.48	26.47	17:51	6.89	32.03	17:56	7.04	32.72	17:58	12.50	27.29	--
2/8/99	7:45	Dry	--	7:42	10.74	29.21	7:50	6.80	32.12	6:48	5.45	34.31	6:45	6.82	32.97	--
2/12/99	6:54	9.10	30.86	--	--	--	6:58	6.90	32.02	7:04	5.94	33.82	--	--	--	--
5/18/99	12:05	8.42	31.54	12:24	9.09	30.86	12:25	7.77	31.15	12:02	6.78	32.98	12:03	8.65	31.14	S52°W@0.02
8/9/99	11:09	4.69	35.27	11:10	9.10	30.85	11:18	7.34	31.58	11:14	4.30	35.46	11:13	8.23	31.56	S23°E@0.0038
11/5/99	8:00	5.23	34.73	8:02	9.15	30.80	8:10	7.43	31.49	8:06	5.87	33.89	8:08	8.37	31.42	S40°E@0.042
9/19/00	10:30	5.53	34.43	10:33	9.36	30.59	9:55	8.13	30.79	10:50	7.10	32.66	10:49	9.71	30.08	S53°E@0.026

Notes: Monitoring well locations are shown on Figure 2.

-- = Not collected / Not determined.

The water level data collected on 20 January and 8 and 12 February 1999 indicate that the water levels had not stabilized in either the shallow or deeper wells on the site.

¹ Top of well casing elevation = 39.96 feet above City of Oakland datum.

² Top of well casing elevation = 39.95 feet above City of Oakland datum.

³ Top of well casing elevation = 38.92 feet above City of Oakland datum.

⁴ Top of well casing elevation = 39.76 feet above City of Oakland datum.

⁵ Top of well casing elevation = 39.79 feet above City of Oakland datum.

⁶ Depths are in feet below top of casing.

⁷ Elevations are in feet above City of Oakland datum.

⁸ Gradient direction and magnitude based on MW-1A, MW-2A, MW-3A

⁹ Water level measurements were collected after removal of one well volume on 19 January 1999.

ATTACHMENT A
GROUNDWATER SAMPLING FORMS

GROUNDWATER SAMPLING

Project no.:	98381	Well no.:	MW-2A	Date:	9/19/00
Project name:	McDonald's	Depth of well from TOC (feet):	14.72		
Location:	6623 San Pablo Ave.	Well diameter (inch):	1 inch		
	Oakland	Screened interval from TOC (feet):	5-10		
Recorded by:	WKS	TOC elevation (feet):	38.92		
Weather:	Sunny, warm	Water level from TOC (feet):	8.13	Time:	9:55 (9/18/00)
Precip in past 5 days (inch):	0	Product level from TOC (feet):	None	Time:	9:55 (9/18/00)
		Water level measurement device:	Dual-interface probe		

CALCULATION OF WELL VOLUME:

$$\begin{array}{r}
 [(14.72 \text{ ft}) - (5.53 \text{ ft})] \times (0.042 \text{ ft})^2 \times 3.14 \times 7.48 = \frac{0.26}{1.5} \text{ gallons in one well volume} \\
 \text{well depth} \quad \text{water level} \quad \text{well radius}
 \end{array}$$

CALIBRATION

	Time	Temp (° C)	pH	EC (µmho/cm)	NTU
Calibration Standard:	--	--	7.00/10.01	1,000	0/5.0
Before Purging:	9:50	24.5	7.00/10.01	1,000	0/5.0
After Purging:	12:00	24.0	7.09/10.05	1,028	0/4.97

FIELD MEASUREMENTS:

Time	Temp (° C)	pH	EC (µmho/cm)	Cumulative Gallons Removed	Appearance	NTU
10:24	22.9	6.56	1226	0.2	Clear, petroleum odor	2.60
10:29	22.1	6.57	1144	1.0	Clear, petroleum odor	2.21
10:36	22.4	6.57	1150	1.5	Clear, petroleum odor	1.46

Water level after purging prior to sampling (feet):	8.14	Time:	13:15 (9/20/00)
Appearance of sample:	Clear	Time:	13:15 (9/20/00)
Duplicate/blank number:	--	Time:	--
Purge method:	Peristaltic pump and disposable polyethylene tubing		
Sampling equipment:	Peristaltic pump and disposable polyethylene tubing	VOC attachment:	None required
Sample containers:	Three 40 ml VOAs		
Sample analyses:	TPHg, BTEX, MTBE	Laboratory:	Curtis & Tompkins
Decontamination method:	TSP and water, DI water rinse	Rinsate disposal:	On-site drum

98381.gw.900.wpd-9/29/00

GROUNDWATER SAMPLING

Project no.:	98381	Well no.:	MW-3A	Date:	9/19/00
Project name:	McDonald's	Depth of well from TOC (feet):	10.02		
Location:	6623 San Pablo Ave. Oakland	Well diameter (inch):	3/4		
Recorded by:	WKS	Screened interval from TOC (feet):	7-10.02		
		TOC elevation (feet):	39.76		
Weather:	Sunny, warm	Water level from TOC (feet):	7.10	Time:	10:50 (9/19/00)
Precip in past 5 days (inch):	0	Product level from TOC (feet):	None	Time:	10:50 (9/19/00)
		Water level measurement device:	Dual-interface probe		

CALCULATION OF WELL VOLUME:

$$[(10.02 \text{ ft}) - (7.10 \text{ ft})] \times (0.003 \text{ ft})^2 \times 3.14 \times 7.48 = \frac{0.06}{1.15} \begin{matrix} \text{gallons in one well volume} \\ \text{total gallons removed} \end{matrix}$$

CALIBRATION

	Time	Temp (° C)	pH	EC (µmho/cm)	NTU
Calibration Standard:	--	--	7.00/10.01	1,000	0/5.0
Before Purging:	9:50	24.5	7.00/10.01	1,000	0/5.0
After Purging:	12:00	24.0	7.09/10.05	1,028	0/4.97

FIELD MEASUREMENTS:

Time	Temp (° C)	pH	EC (µmho/cm)	Cumulative Gallons Removed	Appearance	NTU
------	------------	----	--------------	----------------------------	------------	-----

No field measurements collected due to presence of abundant white precipitate in purge water. This condition did not clear up before well was pumped dry at the removal of 0.15 gallons.

Water level after purging prior to sampling (feet):	7.66	Time:	13:50 (9/20/00)
Appearance of sample:	Clear - very slightly turbid	Time:	13:50 (9/20/00)
Duplicate/blank number:	--	Time:	--
Purge method:	Peristaltic pump and disposable polyethylene tubing		
Sampling equipment:	Peristaltic pump and disposable polyethylene tubing	VOC attachment:	None required
Sample containers:	Two 40 ml VOAs		
Sample analyses:	TPHg, BTEX, MTBE	Laboratory:	Curtis & Tompkins
Decontamination method:	TSP and water, DI water rinse	Rinsate disposal:	On-site drum

98381.gw.900.wpd-9/29/00

GROUNDWATER SAMPLING

Project no.:	98381	Well no.:	MW-3B	Date:	9/19/00
Project name:	McDonald's	Depth of well from TOC (feet):	31.31		
Location:	6623 San Pablo Ave. Oakland	Well diameter (inch):	3/4		
Recorded by:	WKS	Screened interval from TOC (feet):	26.3-31.3		
Weather:	Sunny, warm	TOC elevation (feet):	39.79		
Precip in past 5 days (inch):	0	Water level from TOC (feet):	9.71	Time:	10:49 (9/19/00)
		Product level from TOC (feet):	None	Time:	12:03 (9/19/00)
		Water level measurement device:	Dual-interface probe		

CALCULATION OF WELL VOLUME:

$$[(31.31 \text{ ft}) - (9.71 \text{ ft})] \times (0.03 \text{ ft})^2 \times 3.14 \times 7.48 = \frac{0.43}{1.1} \begin{matrix} \text{gallons in one well volume} \\ \text{total gallons removed} \end{matrix}$$

CALIBRATION

	Time	Temp (° C)	pH	EC (µmho/cm)	NTU
Calibration Standard:	--	--	7.00/10.01	1,000	0/5.0
Before Purging:	9:50	24.5	7.00/10.01	1,000	0/5.0
After Purging:	12:00	24.0	7.09/10.05	1,028	0/4.97

FIELD MEASUREMENTS:

Time	Temp (° C)	pH	EC (µmho/cm)	Cumulative Gallons Removed	Appearance	NTU
11:44	21.5	7.22	872	0.1	Clear, petroleum odor	3.02
11:52	21.7	7.06	911	0.75	Clear, petroleum odor	7.83
11:59	21.9	7.07	918	1.1	Clear, petroleum odor	8.23

Well ran dry

Water level after purging prior to sampling (feet):	12.71	Time:	14:05 (9/20/00)
Appearance of sample:	Clear	Time:	14:05 (9/20/00)
Duplicate/blank number:	--	Time:	--
Purge method:	Peristaltic pump and disposable polyethylene tubing		
Sampling equipment:	Peristaltic pump and disposable polyethylene tubing	VOC attachment:	None required
Sample containers:	Three 40 ml VOAs		
Sample analyses:	TPHg, BTEX, MTBE	Laboratory:	Curtis & Tompkins
Decontamination method:	TSP and water, DI water rinse	Rinsate disposal:	On-site drum

98381.gw.900.wpd-9/29/00

GROUNDWATER SAMPLING

Project no.:	98381	Well no.:	MW-1B	Date:	9/19/00
Project name:	McDonald's	Depth of well from TOC (feet):	30.32		
Location:	6623 San Pablo Ave. Oakland	Well diameter (inch):	3/4		
Recorded by:	WKS	Screened interval from TOC (feet):	25-30		
Weather:	Sunny, warm	TOC elevation (feet):	39.95		
Precip in past 5 days (inch):	0	Water level from TOC (feet):	9.36	Time:	10:33
		Product level from TOC (feet):	None	Time:	10:33
		Water level measurement device:	Dual-interface probe		

CALCULATION OF WELL VOLUME:

$$[(30.32 \text{ ft}) - (9.36 \text{ ft})] \times (0.003 \text{ ft})^2 \times 3.14 \times 7.48 = \frac{0.4}{1.0} \begin{matrix} \text{gallons in one well volume} \\ \text{total gallons removed} \end{matrix}$$

CALIBRATION

	Time	Temp (° C)	pH	EC (umho/cm)	NTU
Calibration Standard:	--	--	7.00/10.01	1,000	0/5.0
Before Purging:	9:50	24.5	7.00/10.01	1,000	0/5.0
After Purging:	12:00	24.0	7.09/10.05	1,028	0/4.97

FIELD MEASUREMENTS:

Time	Temp (° C)	pH	EC (umho/cm)	Cumulative Gallons Removed	Appearance	NTU
10:54	21.6	6.97	892	0.4	Clear	6.0
11:02	21.4	7.02	913	1.0	Clear	3.11

Water level after purging prior to sampling (feet):	12.74	Time:	13:35 (9/20/00)
Appearance of sample:	Clear - very slightly turbid	Time:	13:35 (9/20/00)
Duplicate/blank number:	--	Time:	--
Purge method:	Peristaltic pump and disposable polyethylene tubing		
Sampling equipment:	Peristaltic pump and disposable polyethylene tubing	VOC attachment:	None required
Sample containers:	Three 40 ml VOAs		
Sample analyses:	TPHg, BTEX, MTBE	Laboratory:	Curtis & Tompkins
Decontamination method:	TSP and water, DI water rinse	Rinsate disposal:	On-site drum

98381.gw.900.wpd-9/29/00

ATTACHMENT B

**LABORATORY REPORT AND
CHAIN-OF-CUSTODY FORM**

Quality Control Checklist
for Review of Laboratory Report

Job No.: 90381-00
 Laboratory: Curtis & Tompkins
 Report Date: 9-28-00

Site: McDonalds, 6623 San Pablo
 Laboratory Report No: 147623
 BASELINE Review By: Wts

	Yes	No	NA
GENERAL QUESTIONS (Describe "no" responses below in "comments" section. Contact the laboratory, as required, for further explanation or action on "no" responses; document discussion in comments section.)			
1a. Does the report include a case narrative? (A case narrative MUST be prepared by the lab for all analytical work requested by BASELINE)	X		X
1b. Is the number of pages for the lab report as indicated on the case narrative/lab transmittal consistent with the number of pages that are included in report?	X		X
1c. Does the case narrative indicate which samples were analyzed by a subcontractor and the subcontractor's name?			X
1d. Does the case narrative summarize subsequent requests not shown on the chain-of-custody (e.g., additional analyses requested, release of "hold" samples)?	X		X
1e. Does the case narrative explain why requested analyses could not be performed by laboratory (e.g., insufficient sample)?			X
1f. Does the case narrative explain all problems with the QA/QC data as identified in the checklist (as applicable)?			X
2a. Is the laboratory report format consistent and legible throughout the report?	X		X
2b. Are the sample and reported dates shown in the laboratory report correct?	X		X
3a. Does the lab report include the original chain-of-custody form?		copy X	X
3b. Were all samples appropriately analyzed as requested on the chain-of-custody form?	X		X
4. Was the lab report signed and dated as being reviewed by the laboratory director, QA manager, or other appropriate personnel? (Some lab reports have signature spaces for each page). (This requirement also applies to any analyses subcontracted out by the laboratory)	X		X
5a. Are preparation methods, cleanup methods (if applicable), and laboratory methods indicated for all analyses?	X		X
5b. If additional analytes were requested as part of the reporting of the data for an analytical method, were these included in the lab report?	X		
6. Are the units in the lab report provided for each analysis consistent throughout the report?	X		X
7. Are the detection limits (DL) appropriate based on the intended use of the data? (e.g., DL below applicable MCLs for water quality issues?)	X		X
8a. Are detection limits appropriate based on the analysis performed? (i.e., not elevated due to dilution effects)	X		X
8b. If no, is an explanation provided by the laboratory?			X
9a. Were the samples analyzed within the appropriate holding time? (generally 2 weeks for volatiles, and up to 6 months for total metals)	X		X

Laboratory Quality Control Checklist

Page 2

	Yes	No	NA
9b. If no, was it flagged in the report?			X
10. If samples were composited prior to analysis, does the lab report indicate which samples were composited for each analysis?			X
11a. Do the chromatograms confirm quantitative laboratory results? (petroleum hydrocarbons)	X		
11b. Is a standard chromatogram(s) included in the laboratory report?	X		
11c. Do the chromatograms confirm laboratory notes, if present (e.g., sample exhibits lighter hydrocarbon than standard)			X
12. Are the results consistent with previous analytical results from the site? (If no, contact the lab and request review/reanalysis of data, as appropriate)	X		
13a. REVISED LAB REPORTS ONLY. Is the revised lab report or revised pages to a lab report signed and dated as being reviewed by the laboratory director, QA manager, or other appropriate personnel?			X
13b. REVISED LAB REPORTS ONLY. Does the case narrative indicate the date of revision and provide an explanation for the revision?			X
13c. REVISED LAB REPORTS ONLY. Does the revised lab report adequately address the problem(s) which triggered the need for a revision?			X
13d. REVISED LAB REPORTS ONLY. Are the data included in the revised report the same as data reported in the original report, except where the report was revised to correct incorrectly reported data?			X
QA/QC Questions			
Field/Laboratory Quality Control - Groundwater Analyses			
14. Are field blanks reported as "ND"? (groundwater samples) <i>A field blank is a sample of DI water which is prepared in the field using the same collection and handling procedures as the other samples collected, and used to demonstrate that the sampling procedure has not contaminated the sample.</i>			X
15. Are trip blanks reported as "ND"? (groundwater samples/volatile analyses) <i>A trip blank is a sample of contaminant-free matrix placed in an appropriate container by the lab and transported with the field samples collected. Provides information regarding positive interference introduced during sample transport, storage, preservation, and analysis. The sample is NOT opened in the field.</i>			X
16. Are duplicate sample results consistent with the original sample? (groundwater samples) <i>Field duplicates consist of two independent samples collected at the same sampling location during a single sampling event. Used to evaluate precision of the analytical data and sampling technique. (Differences between the duplicate and sample results may also be attributed to environmental variability).</i>			X

Laboratory Quality Control Checklist

Page 3

	Yes	No	NA
<p>Batch Quality Control (Samples are batched together by matrix [soil, water] and analyses requested. A batch generally consists of 20 or fewer samples of the same matrix type, and is prepared using the same reagents, standards, procedures, and time frame as the samples. QC samples are run with each batch to assess performance of the entire measurement process.)</p>			
17. Do the sample batch numbers and corresponding laboratory QA/QC batch numbers match?			
18a. Are method blanks (MB) for the analytical method(s) below the laboratory reporting limits? <i>Used to assess lab contamination and prevent false positive results. MBs should be "ND."</i>	X		
18b. If no, is an explanation provided in the case narrative to validate the data?			X
18c. Are analytes which may be considered laboratory contaminants reported below the laboratory reporting limit? <i>Common lab contaminants include acetone, methylene chloride, diethylhexyl phthalate, and di-n-octyl phthalate.</i>	X		
18d. If no, was the laboratory contacted to determine whether reported analyte could be a potential laboratory contaminant and was an explanation included in the case narrative?			X
19. Are laboratory control samples (LCS) and LCS duplicate (LCSD) [a.k.a., Blank Spike (BS) and BS duplicates (BSD)] within laboratory reporting limits? Limits should be provided on the report. <i>LCS is a reagent blank spike with a representative selection of target analyte(s) and prepared in the same manner as the samples analyzed. The LCS should be spiked with the same analytes as the matrix spike (below). The LCS is free from interferences from the sample matrix and demonstrates the ability of the lab instruments to recover the target analytes. Accuracy (recovery information) is generally reported as % spike recovery; precision (reproducibility of results) between the LCS and LCSD is generally reported as the relative percent difference (RPD). LCS/LCSD can be run in addition to or in lieu of, matrix QC data.</i>	X		
20a. Are the Matrix QC data (i.e., MS/MSD) within laboratory limits? Limits should be provided on the lab report. <i>The lab selects a sample from the batch and analyzes a spike and a spike duplicate of that sample. Matrix QC data is used to obtain precision and accuracy information and is reported in the same manner as LCS/LCSD. If the MS/MSD fails, the results may still be considered valid if the MB and either the LCS/LCSD or BS/BSD is within the lab's limits (failure is probably due to matrix interference).</i>	X		
20b. If no, is the MB and either LCS/LCSD or BS/BSD within lab limits to validate the data?			X

Laboratory Quality Control Checklist

Page 4

	Yes	No	NA
Sample Quality Control			
21a. Are the surrogate spikes reported within the lab's acceptable recovery limits? <i>A surrogate is a non-target analyte, which is similar in chemical structure to the analyte(s) being analyzed for, and which is not commonly found in environmental samples. A known concentration of the surrogate is spike into the sample or QA "sample" prior to extraction or sample preparation. Results are usually reported as % recovery of the spike. Failure to meet lab's limits for primary and secondary surrogates results in rebatching and reanalysis of the sample; failure of only the primary or the secondary surrogate may be acceptable under certain circumstances. Failure generally is due to coelution with the sample matrix.</i>	X		
21b. If no, is an explanation given in the case narrative to validate the data?			X

Comments:



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

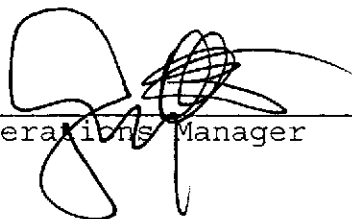
Prepared for:

Baseline Environmental
5900 Hollis Street
Suite D
Emeryville, CA 94608

Date: 28-SEP-00
Lab Job Number: 147623
Project ID: 98381
Location: McDonalds, 6623 San Pablo

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

This package may be reproduced only in its entirety.

Laboratory Number: 147623
Client: Baseline Environmental
Project ID: 98381-BO
Location: McDonalds, San Pablo Ave, Berkeley

Receipt Date: 09/20/00

CASE NARRATIVE

This hardcopy data package contains sample and QC results for five soil samples, which were received from the site referenced above on September 20, 2000.

TVH/BTXE: No analytical problems were encountered.

MTBE: All samples were analyzed by EPA Method 8260 to confirm the MTBE concentrations observed by EPA Method 8020. The MTBE concentrations were confirmed. No analytical problems were encountered.

BASELINE

5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

CHAIN OF CUSTODY RECORD

Lab
BASELINE Contact Person

Curtis + Tompkins
Bill Scott

Project No. 98381-80		Project Name and Location: McDonalds, San Pablo Ave, Berkeley																		
Samplers: (Signature) <i>William K Scott</i>				Containers																
Sample ID No. Station	Date:	Time:	Media	Preservative					Other:	TPH as Gasolin	MTBE + BTEX									Remarks/ Composite
				No.	Type	None	HCl	NO ₃				SO ₄								
MW-1A	9-20-00	13:20	W	3	VOAS		X				X	X								MW-1A 1 VOA
MW-1B	↓	13:35	W	3	↓		X				X	X								has a bubble
MW-2A	↓	13:15	W	3	↓		X				X	X								
MW-3A	↓	13:50	W	2	↓		X				X	X								
MW-3B	↓	14:05	W	3	↓		X				X	X								
Relinquished by: (Signature) <i>William K Scott</i>		Date/Time 9-20-00/13:20		Received by: (Signature) <i>[Signature]</i>				Date/Time		Conditions of Samples Upon Arrival at Laboratory:										
Relinquished by: (Signature) <i>[Signature]</i>		Date/Time		Received by: (Signature) <i>[Signature]</i>				Date/Time		Remarks: IF MTBE present in cooler we confirm w/ 8260 <i>Received in cooler</i> <i>Bill Scott</i>										
Relinquished by: (Signature)		Date/Time		Received by: (Signature) <i>[Signature]</i>				Date/Time 9-20-00/13:20												

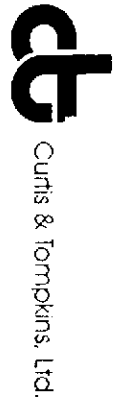
Baseline Environmental

CURTIS & TOMPKINS, LTD. BERKELEY

LOGIN CHANGE FORM

Reason for change: _____ Client Request By: Anna/Bruce A. Date/Time: 9/22/00 Initials: _____
 _____ Login Review Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Due date
147623 -001	/	MW-1A	Water	Confirm	MTBE by 8260	9/
-002		MW-1B			}	/26
-003		MW-2A				
-004		MW-3A				
-005		MW-3B				





Gasoline by GC/FID CA LUFT

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8015M
Matrix:	Water	Sampled:	09/20/00
Units:	ug/L	Received:	09/20/00

Field ID:	MW-1A	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	58459
Lab ID:	147623-001	Analyzed:	09/23/00

Analyte	Result	RL
Gasoline C7-C12	14,000	1,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	72	59-135
Bromofluorobenzene (FID)	67	60-140

Field ID:	MW-1B	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	58422
Lab ID:	147623-002	Analyzed:	09/21/00

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	59-135
Bromofluorobenzene (FID)	92	60-140

Field ID:	MW-2A	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	58459
Lab ID:	147623-003	Analyzed:	09/23/00

Analyte	Result	RL
Gasoline C7-C12	2,500	250

Surrogate	%REC	Limits
Trifluorotoluene (FID)	70	59-135
Bromofluorobenzene (FID)	67	60-140

Field ID:	MW-3A	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	58422
Lab ID:	147623-004	Analyzed:	09/22/00

Analyte	Result	RL
Gasoline C7-C12	1,800	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	59-135
Bromofluorobenzene (FID)	93	60-140

Chromatogram

Sample Name : 145623-001.58459

Sample #:

Page 1 of 1

File Name : G:\GC05\DATA\266G032.raw

Date : 9/25/00 10:40 AM

Method : TVHBTXE

Time of Injection: 9/23/00 08:35 AM

Start Time : 0.00 min

End Time : 26.80 min

Low Point : -29.89 mV

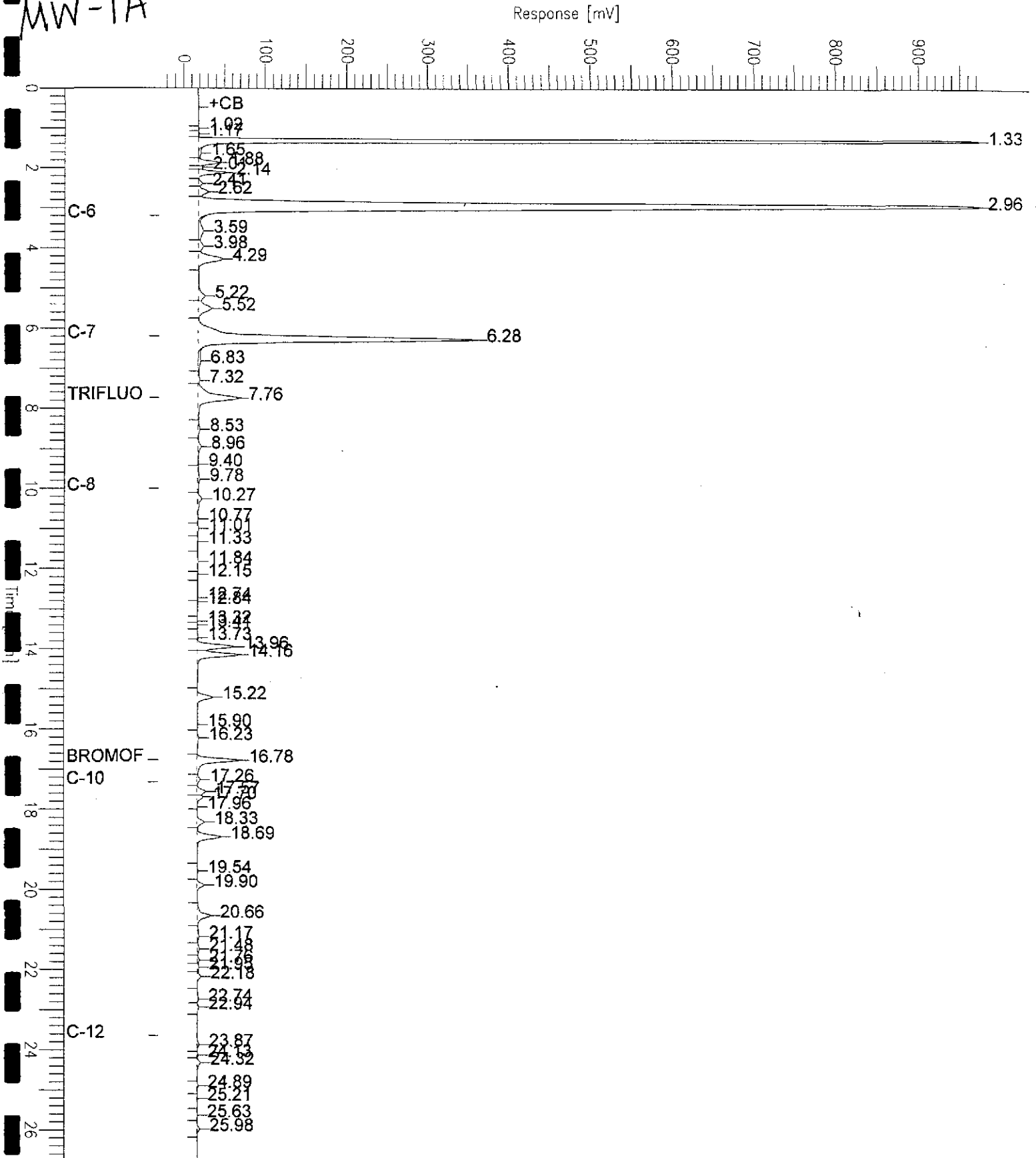
High Point : 972.73 mV

Scale Factor: 1.0

Plot Offset: -30 mV

Plot Scale: 1002.6 mV

MW-1A



Chromatogram

Sample Name : 145623-003,58459

Sample #:

Page 1 of 1

FileName : G:\GC05\DATA\266G031.raw

Date : 9/25/00 10:39 AM

Method : TVHBTXE

Time of Injection: 9/23/00 07:59 AM

Start Time : 0.00 min

End Time : 26.80 min

Low Point : -30.02 mV

High Point : 972.74 mV

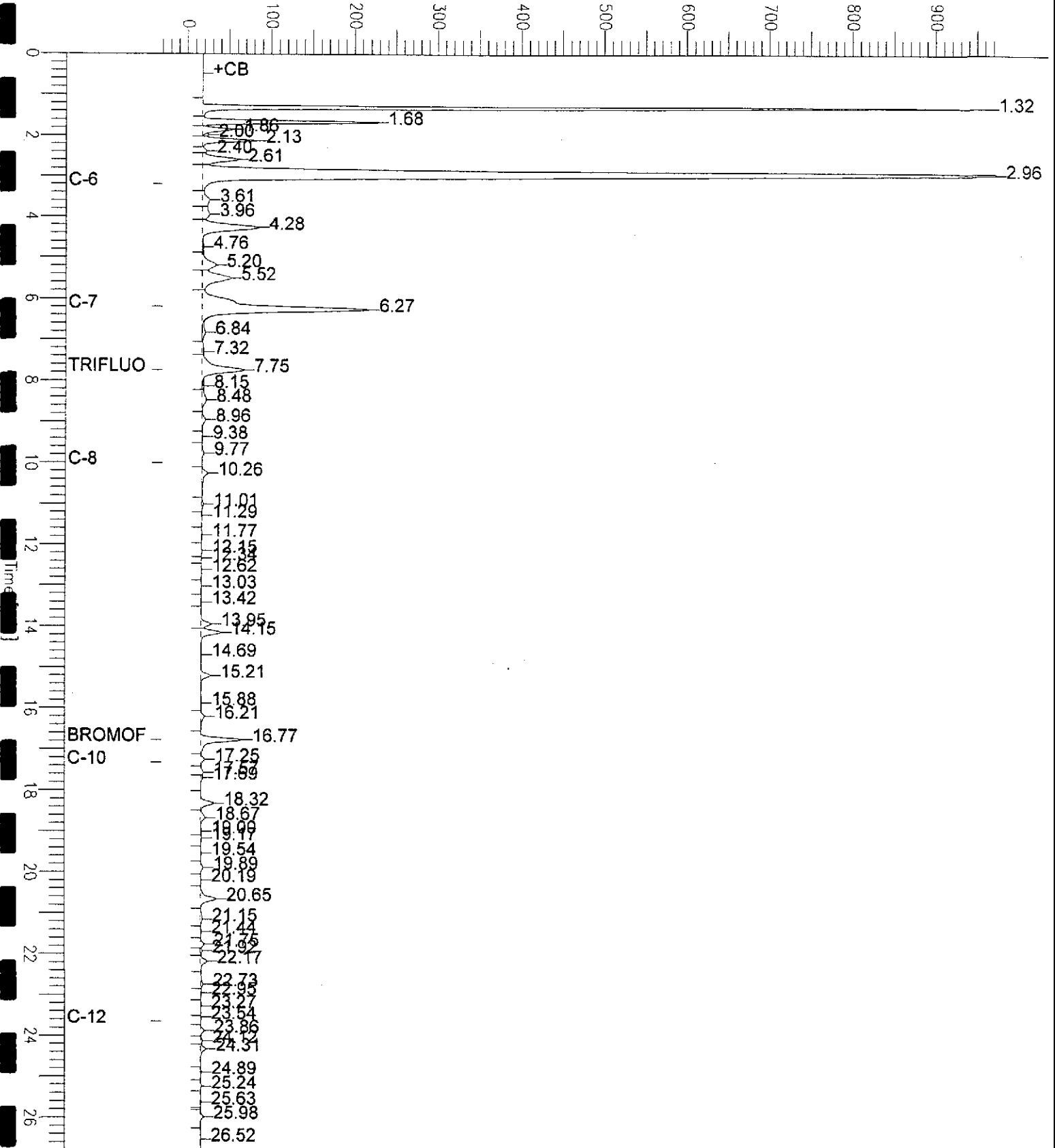
Scale Factor: 1.0

Plot Offset: -30 mV

Plot Scale: 1002.8 mV

MW-2A

Response [mV]



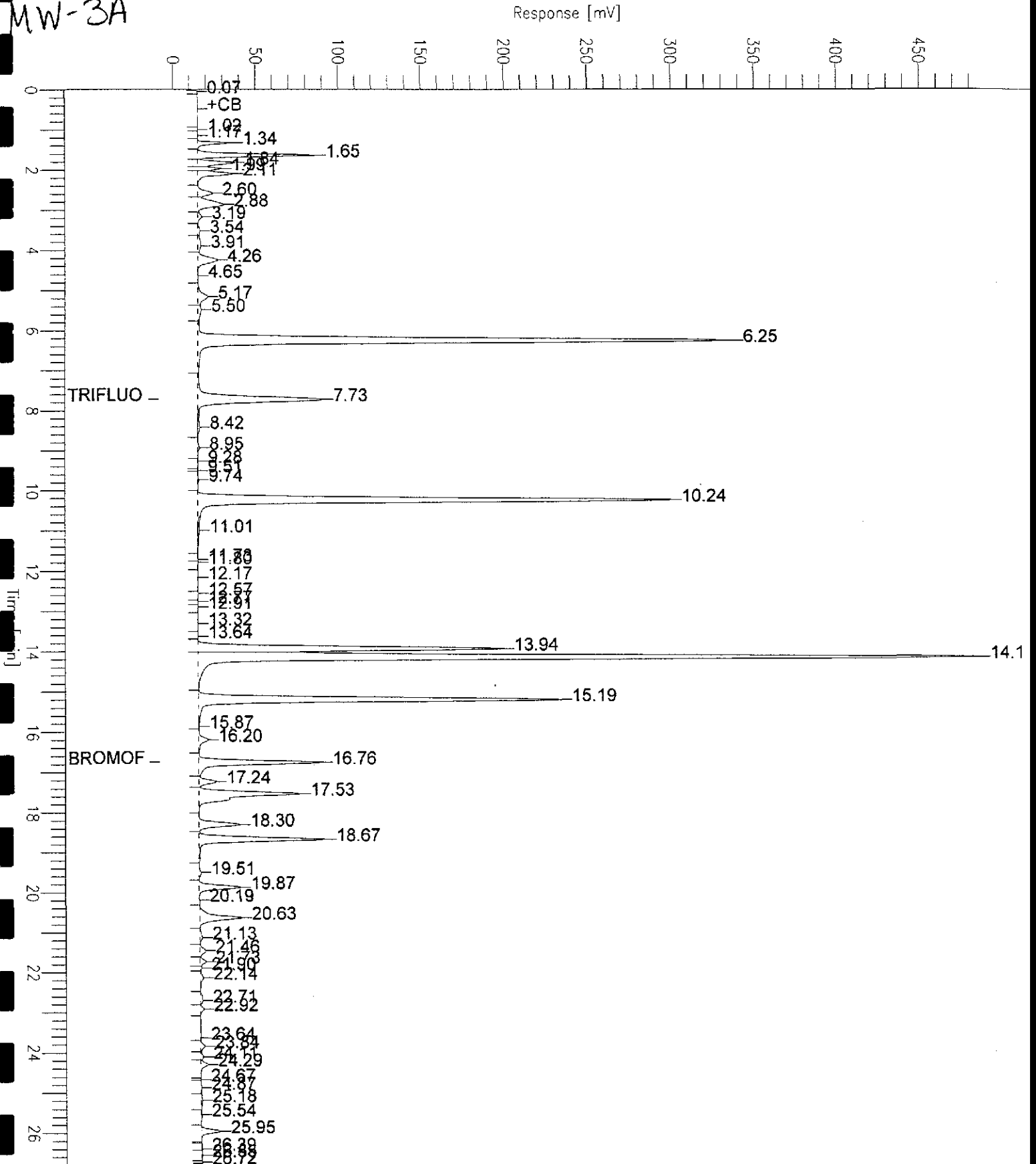
Chromatogram

Sample Name : 147623-004,58422
File Name : G:\GC05\DATA\265G021.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor : 1.0 Plot Offset : -9 mV

Sample # :
Date : 9/22/00 12:48 AM
Time of Injection : 9/22/00 12:21 AM
Low Point : -8.94 mV High Point : 486.60 mV
Plot Scale : 495.5 mV

Page 1 of 1

MW-3A

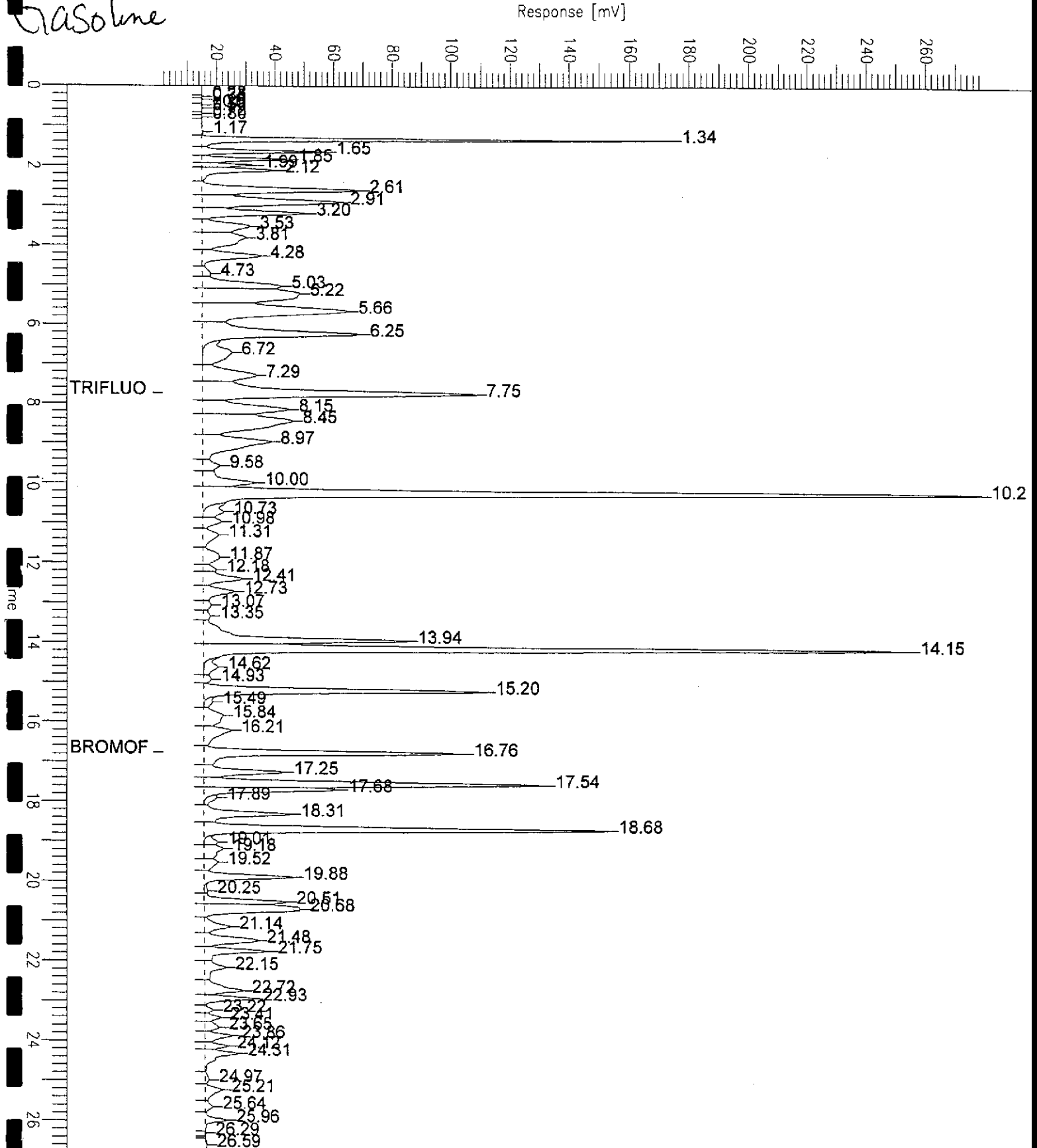


Chromatogram

Sample Name : CCV/LCS, QC125660, 58422, 00WS9465, 5/5000
FileName : G:\GC05\DATA\265G003.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: 2 mV

Sample #:
Date : 9/21/00 12:13 PM Page 1 of 1
Time of Injection: 9/21/00 11:46 AM
Low Point : 1.66 mV High Point : 279.59 mV
Plot Scale: 277.9 mV

Gasoline



Gasoline by GC/FID CA LUFT

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8015M
Matrix:	Water	Sampled:	09/20/00
Units:	ug/L	Received:	09/20/00

Field ID:	MW-3B	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	58422
Lab ID:	147623-005	Analyzed:	09/22/00

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	69	59-135
Bromofluorobenzene (FID)	77	60-140

Type:	BLANK	Batch#:	58422
Lab ID:	QC125663	Analyzed:	09/21/00
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	59-135
Bromofluorobenzene (FID)	104	60-140

Type:	BLANK	Batch#:	58459
Lab ID:	QC125793	Analyzed:	09/22/00
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	63	59-135
Bromofluorobenzene (FID)	72	60-140

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8021B
Matrix:	Water	Sampled:	09/20/00
Units:	ug/L	Received:	09/20/00
Batch#:	58484	Analyzed:	09/25/00

Field ID:	MW-1A	Lab ID:	147623-001
Type:	SAMPLE	Diln Fac:	50.00

Analyte	Result	RL
MTBE	47,000	100
Benzene	4,000	25
Toluene	63	25
Ethylbenzene	450	25
m,p-Xylenes	490	25
o-Xylene	170	25

Surrogate	%REC	Limits
Trifluorotoluene (PID)	89	56-142
Bromofluorobenzene (PID)	93	55-149

Field ID:	MW-1B	Lab ID:	147623-002
Type:	SAMPLE	Diln Fac:	1.000

Analyte	Result	RL
MTBE	3.5	2.0
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	86	56-142
Bromofluorobenzene (PID)	92	55-149

Field ID:	MW-2A	Lab ID:	147623-003
Type:	SAMPLE	Diln Fac:	10.00

Analyte	Result	RL
MTBE	6,600	20
Benzene	980	5.0
Toluene	33	5.0
Ethylbenzene	73	5.0
m,p-Xylenes	120	5.0
o-Xylene	58	5.0

Surrogate	%REC	Limits
Trifluorotoluene (PID)	92	56-142
Bromofluorobenzene (PID)	93	55-149



Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8021B
Matrix:	Water	Sampled:	09/20/00
Units:	ug/L	Received:	09/20/00
Batch#:	58484	Analyzed:	09/25/00

Field ID:	MW-3A	Lab ID:	147623-004
Type:	SAMPLE	Diln Fac:	1.000

Analyte	Result	RL
MTBE	ND	2.0
Benzene	170	0.50
Toluene	130	0.50
Ethylbenzene	82	0.50
m,p-Xylenes	210	0.50
o-Xylene	99	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	87	56-142
Bromofluorobenzene (PID)	92	55-149

Field ID:	MW-3B	Lab ID:	147623-005
Type:	SAMPLE	Diln Fac:	1.000

Analyte	Result	RL
MTBE	ND	2.0
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	87	56-142
Bromofluorobenzene (PID)	95	55-149

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC125895		

Analyte	Result	RL
MTBE	ND	2.0
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	88	56-142
Bromofluorobenzene (PID)	93	55-149

Gasoline by GC/FID CA LUFT

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8015M
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC125660	Batch#:	58422
Matrix:	Water	Analyzed:	09/21/00
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,883	94	73-121

Surrogate	%REC	Limits
Trifluorotoluene (FID)	129	59-135
Bromofluorobenzene (FID)	115	60-140



Gasoline by GC/FID CA LUFT

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8015M
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC125790	Batch#:	58459
Matrix:	Water	Analyzed:	09/22/00
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,878	94	73-121

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	59-135
Bromofluorobenzene (FID)	81	60-140

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC125894	Batch#:	58484
Matrix:	Water	Analyzed:	09/25/00
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	16.55	83	51-125
Benzene	20.00	17.88	89	67-117
Toluene	20.00	18.25	91	69-117
Ethylbenzene	20.00	18.00	90	68-124
m,p-Xylenes	40.00	36.36	91	70-125
o-Xylene	20.00	17.70	88	65-129

Surrogate	%REC	Limits
Trifluorotoluene (PID)	87	56-142
Bromofluorobenzene (PID)	92	55-149



Gasoline by GC/FID CA LUFT

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8015M
Field ID:	MW-3B	Batch#:	58422
MSS Lab ID:	147623-005	Sampled:	09/20/00
Matrix:	Water	Received:	09/20/00
Units:	ug/L	Analyzed:	09/22/00
Diln Fac:	1.000		

Type: MS Lab ID: QC125664

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	24.12	2,000	1,889	93	65-131
Surrogate	%REC	Limits			
Trifluorotoluene (FID)	91	59-135			
Bromofluorobenzene (FID)	77	60-140			

Type: MSD Lab ID: QC125665

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,641	81	65-131	14	20
Surrogate	%REC	Limits				
Trifluorotoluene (FID)	87	59-135				
Bromofluorobenzene (FID)	77	60-140				

Gasoline by GC/FID CA LUFT

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8015M
Field ID:	ZZZZZZZZZZ	Batch#:	58459
MSS Lab ID:	147619-004	Sampled:	09/18/00
Matrix:	Water	Received:	09/19/00
Units:	ug/L	Analyzed:	09/23/00
Diln Fac:	1.000		

Type:	MS	Lab ID:	QC125794
-------	----	---------	----------

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	30.70	2,000	1,731	85	65-131
Surrogate	%REC	Limits			
Trifluorotoluene (FID)	97	59-135			
Bromofluorobenzene (FID)	83	60-140			

Type:	MSD	Lab ID:	QC125795
-------	-----	---------	----------

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,729	85	65-131	0	20
Surrogate	%REC	Limits				
Trifluorotoluene (FID)	94	59-135				
Bromofluorobenzene (FID)	80	60-140				

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8021B
Field ID:	MW-3B	Batch#:	58484
MSS Lab ID:	147623-005	Sampled:	09/20/00
Matrix:	Water	Received:	09/20/00
Units:	ug/L	Analyzed:	09/25/00
Diln Fac:	1.000		

Type: MS Lab ID: QC125896

Analyte	MSS Result	Spiked	Result	%REC	Limits
MTBE	1.888	20.00	23.09	106	33-131
Benzene	<0.06300	20.00	17.15	86	65-123
Toluene	<0.05100	20.00	17.79	89	73-122
Ethylbenzene	<0.07200	20.00	16.67	83	59-137
m,p-Xylenes	<0.1100	40.00	35.67	89	68-132
o-Xylene	<0.1300	20.00	17.13	86	61-140

Surrogate	%REC	Limits
Trifluorotoluene (PID)	88	56-142
Bromofluorobenzene (PID)	96	55-149

Type: MSD Lab ID: QC125897

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	20.00	24.44	113	33-131	6	20
Benzene	20.00	18.65	93	65-123	8	20
Toluene	20.00	19.24	96	73-122	8	20
Ethylbenzene	20.00	18.35	92	59-137	10	20
m,p-Xylenes	40.00	38.91	97	68-132	9	20
o-Xylene	20.00	18.82	94	61-140	9	20

Surrogate	%REC	Limits
Trifluorotoluene (PID)	88	56-142
Bromofluorobenzene (PID)	95	55-149

**Purgeable Aromatics by GC/MS**

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8260B
Field ID:	MW-1A	Batch#:	58508
Lab ID:	147623-001	Sampled:	09/20/00
Matrix:	Water	Received:	09/20/00
Units:	ug/L	Analyzed:	09/26/00
Diln Fac:	500.0		

Analyte	Result	RL
MTBE	48,000	250

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	105	80-115

**Purgeable Aromatics by GC/MS**

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8260B
Field ID:	MW-1B	Batch#:	58508
Lab ID:	147623-002	Sampled:	09/20/00
Matrix:	Water	Received:	09/20/00
Units:	ug/L	Analyzed:	09/26/00
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	2.0	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	104	80-115

Purgeable Aromatics by GC/MS

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8260B
Field ID:	MW-2A	Batch#:	58508
Lab ID:	147623-003	Sampled:	09/20/00
Matrix:	Water	Received:	09/20/00
Units:	ug/L	Analyzed:	09/26/00
Diln Fac:	200.0		

Analyte	Result	RL
MTBE	4,600	100

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	105	80-115

**Purgeable Aromatics by GC/MS**

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8260B
Field ID:	MW-3A	Batch#:	58508
Lab ID:	147623-004	Sampled:	09/20/00
Matrix:	Water	Received:	09/20/00
Units:	ug/L	Analyzed:	09/26/00
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	1.9	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	102	80-115

**Purgeable Aromatics by GC/MS**

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8260B
Field ID:	MW-3B	Batch#:	58476
Lab ID:	147623-005	Sampled:	09/20/00
Matrix:	Water	Received:	09/20/00
Units:	ug/L	Analyzed:	09/23/00
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	104	80-115

ND = Not Detected

RL = Reporting Limit



Purgeable Aromatics by GC/MS

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC125863	Batch#:	58476
Matrix:	Water	Analyzed:	09/23/00
Units:	ug/L		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	101	80-115



Purgeable Aromatics by GC/MS

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC125981	Batch#:	58508
Matrix:	Water	Analyzed:	09/26/00
Units:	ug/L		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	103	80-115



Purgeable Aromatics by GC/MS

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	58476
Units:	ug/L	Analyzed:	09/23/00
Diln Fac:	1.000		

Type: BS Lab ID: QC125861

Analyte	Spiked	Result	%REC	Limits
MTBE	50.00	51.01	102	50-150

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	78-123
Toluene-d8	95	80-110
Bromofluorobenzene	91	80-115

Type: BSD Lab ID: QC125862

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	50.00	50.93	102	50-150	0	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	97	80-115



Purgeable Aromatics by GC/MS

Lab #:	147623	Location:	McDonalds, 6623 San Pablo
Client:	Baseline Environmental	Prep:	EPA 5030
Project#:	98381	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	58508
Units:	ug/L	Analyzed:	09/26/00
Diln Fac:	1.000		

Type: BS Lab ID: QC125979

Analyte	Spiked	Result	%REC	Limits
MTBE	50.00	48.00	96	50-150

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	98	80-115

Type: BSD Lab ID: QC125980

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	50.00	49.79	100	50-150	4	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	98	80-115