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Clayton GROUP SERVICES

R0334

November 11, 2002

Alameda County
NOV 14 2002
Environmental Health

Mr. Barney Chan
Hazardous Materials Specialists
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Clayton Project No.70-97066.00.001

Subject: Third Quarter 2002 Groundwater Monitoring Results for the property at 630 29th Avenue in Oakland, California

Dear Mr. Chan:

Clayton is pleased to present the results for the Third Quarter 2002 groundwater monitoring event performed at 630 29th Avenue in Oakland, California.

If you have any comments or questions regarding the report please contact the undersigned (925) 426-2600.

Sincerely,

Mike Krzeminski
Environmental Consultant
Environmental Services

Warren B. Chamberlain for
Jon A. Rosso, P.E.
Director

WBC/wbc

cc: Donna Profitt Bank of America
Rita Repko Clayton

Clayton GROUP SERVICES

Third Quarter 2002
Groundwater Monitoring Results
for the
Former Lemoine Sausage Facility
630 29th Avenue
Oakland, California

Clayton Project No. 70-97066.00

November 11, 2002

CONTENTS

1. INTRODUCTION

Clayton Group Services, Inc., (Clayton) has prepared this quarterly groundwater monitoring report to document the results of the Third Quarter, 2002 groundwater monitoring event for the former Lemoine Sausage Facility located at 630 29th Avenue in Oakland, California (Figure 1). The groundwater monitoring is performed pursuant a request from the Alameda County Health Services (ACHS) in a letter dated June 19, 1999. Groundwater monitoring is required due to past releases from a former gasoline underground storage tank (UST) previously located beneath the sidewalk adjacent to the subject property. The purpose of the groundwater monitoring is to determine groundwater flow conditions and water quality beneath the site. Groundwater samples are collected and analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-g) and associated compounds Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX) and the former gasoline fuel additive 1,2-Dichloroethane (1,2-DCA).

As directed by the ACHS, groundwater monitoring is being performed on a quarterly basis. This Third Quarter 2002 Groundwater Monitoring Report documents field activities, and presents data used to determine the groundwater elevation and gradient at the site. Laboratory data are presented and indicate the groundwater concentrations of dissolved hydrocarbons in the vicinity of the subject property.

2. SITE DESCRIPTION AND HISTORY

A single 1,000-gallon gasoline UST and associated plumbing/piping were formerly located beneath the sidewalk of 7th Street and adjacent (east) of the subject property building. The associated fuel dispenser was located in a "cubby hole" near the building's roll-up door. The UST and associated piping were removed on November 21, 1996 and confirmation soil samples were collected. A petroleum hydrocarbon sheen was noted on top of groundwater and petroleum hydrocarbons were detected in the confirmation soil samples collected at the time of the UST removal.

Subsequent groundwater investigations were performed and eight groundwater monitoring wells have been installed into the first encountered water bearing zone to test groundwater conditions at the site. The locations of the monitoring wells were selected to define the vertical and lateral extent of petroleum hydrocarbons within groundwater at the site. First encountered water beneath the site occurs in predominantly low permeability clayey and sandy silt, at depths ranging from 3.5 to 8.5 feet below street grade.

In addition, during the testing for 1,2-DCA, several non-gasoline related halogenated volatile organic compounds (VOCs) were detected in the groundwater samples from wells located in the southern portion of the site. The source of non-gasoline related VOCs has not been discerned, and are mostly likely due to an off-site source.

3. GROUNDWATER MONITORING FIELD ACTIVITIES

The following discussion describes field methods used to obtain depth to water measurements, and collect groundwater samples. Field activities were performed on September 9, 2002. Groundwater samples were collected from ten monitoring wells (MW-1, MW-2, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12 and MW-13).

3.1. GROUNDWATER LEVEL MEASUREMENTS

Depth to water was measured in each monitoring well to determine the groundwater elevation, gradient and flow direction. The depth to water in each monitoring well was measured on September 9, 2002, with an electronic water level probe. The depth to water in each monitoring well was measured from the surveyed reference elevation represented as a V-notch at the top of the well casing (TOC) to the water surface within the well casing. By subtracting the measured depth to water from the TOC elevation in each monitoring well, the groundwater elevation at each monitoring point was calculated.

3.2. GROUNDWATER PURGING

Two monitoring wells (MW-1 and MW-2) are constructed with ¾-inch diameter PVC well casings and eight monitoring wells (MW-6 through MW-13) are constructed with 2-inch diameter PVC well casings. Prior to collecting a groundwater sample from each monitoring well, approximately four well casing volumes of water were removed or the well casing was purged dry. The ¾-inch diameter wells were purged using a peristaltic pump and ¼-inch polytubing, and the 2-inch diameter wells were purged by hand bailing with a 1-liter Teflon bailer attached to nylon bailer twine. Water quality parameters (pH, specific conductivity, oxidation-reduction potential [ORP], temperature, dissolved oxygen and turbidity) were measured and recorded onto field sampling data sheets. Water quality parameter measurements were made prior to purging and after removing each well casing volume of water from the monitoring well.

The purge volume from each monitoring well was determined from multiplying the nominal cross-sectional area of the well casing by the water column within each well casing. The water column height in each well was determined from subtracting the groundwater elevation from the well casing bottom elevation (known from well construction details).

Field logs documenting water level measurements, well purging and sampling for the Third Quarter 2002 monitoring event are presented in Appendix A. Groundwater purged from monitoring wells during sampling was stored onsite in sealed USDOT approved 55-gallon drums, labeled with identifying information, manifested and removed from the site by a licensed hauler.

3.3. GROUNDWATER SAMPLING

Prior to collecting a groundwater sample from each monitoring well, the well was allowed to recharge to 80-percent of the pre-purged well casing water volume. Groundwater samples for laboratory analyses were retrieved using either a peristatlic

pump with polytubing or a disposable bailer. The groundwater retrieved for analyses was transferred into appropriately sized and preserved laboratory supplied containers. Sample containers were sealed, labeled with identifying information, logged onto the chain-of-custody, and temporarily stored in a chilled ice-chest while awaiting transportation to the laboratory.

3.4. LABORATORY ANALYSES

Groundwater samples were submitted to the State of California certified Curtis and Tompkins Laboratories of Berkeley, California for laboratory analyses. The samples were analyzed by one or more of the following United States Environmental Protection Agency (USEPA) approved analytical methods:

- USEPA Method 8015M for Total Petroleum Hydrocarbons as Gasoline (TPH-g)
- USEPA Method 8020 for Aromatic Hydrocarbons (Benzene, Toluene, Ethylbenzene, and total Xylenes [BTEX]), and
- USEPA Method 8010 for Halogenated Volatile Organic Compounds (VOCs).

Certified analytical data sheets and chain-of-custody documentation for the Third Quarter 2002 groundwater-sampling event are presented in Appendix B.

4. FINDINGS

The following discussion presents an interpretation of groundwater flow conditions and water quality at the site based on the results obtained from field measurements and laboratory analyses.

4.1. GROUNDWATER FLOW CONDITIONS

A site piezometric surface (water table) map was produced by using the surveyed monitoring well coordinates and contouring the corresponding groundwater elevation data. The magnitude of the local groundwater gradient was determined using groundwater elevations from monitoring wells MW-10 and MW-11. The direction of groundwater flow is inferred to be perpendicular to the piezometric equipotential contours. For the Third Quarter 2002 monitoring event, the groundwater gradient was determined to be 0.015 feet per foot (ft/ft) towards the west.

Historical depth to water measurements and groundwater elevation data are presented on Table 1. The Third Quarter 2002 groundwater elevation contour map with the groundwater flow direction indicated is presented on Figure 2.

4.2. PETROLEUM AND AROMATIC HYDROCARBONS

The frequency and range of petroleum hydrocarbons detected in groundwater samples are as follows:

- TPH-g was detected in 8 of 10 samples tested, and ranged in concentration from 89 micrograms per liter (µg/L) to 57,000 µg/L.
- Benzene was detected in 6 of 10 samples tested, and ranged in concentration from 58 µg/L to 8,3 µg/L.
- Toluene was detected in 5 of 10 samples tested, and ranged in concentration from 1.6 µg/L to 6,100 µg/L.
- Ethylbenzene was detected in 6 of 10samples tested, and ranged in concentration from 0.74 µg/L to 1,900 µg/L.
- Total Xylenes was detected in 4 of 10 samples tested, and ranged in concentration from 14 µg/L to 4,700 µg/L.

A summary of petroleum hydrocarbons and VOCs detected in groundwater samples are presented on Table 2. The concentrations of TPH-g and benzene detected in groundwater samples collected from monitoring wells for the Third Quarter 2002 monitoring event are presented in Figures 3a and 3b, respectively.

4.3. HALOGENATED VOLATILE ORGANIC COMPOUNDS

The frequency and range of VOCs detected in groundwater samples are as follows:

- 1,2-Dichloroethane (1,2-DCA) was detected in 2 of 10 samples tested, and ranged in concentration from 10 µg/L to 18 µg/L.
- Trichloroethene (TCE) was detected in 3 of 10 samples tested, and ranged in concentration from 17 µg/L to 180 µg/L.
- Cis 1,2-Dichloroethene (cis 1,2-DCE) was detected in 4 of 10 samples tested, and ranged in concentration from 0.6 µg/L to 1,000 µg/L.
- Trans 1,2-Dichloroethene (trans 1,2-DCE) was detected in 3 of 10 samples tested, and ranged in concentration from 13 µg/L to 60 µg/L.
- Vinyl Chloride (VC) was detected in 3 of 10 samples tested, and ranged in concentration from 0.9 µg/L to 91 µg/L.

The concentrations of TCE (contoured) and 1,2-DCE detected in groundwater samples collected from monitoring wells for the Third Quarter 2002 monitoring event are presented in Figures 4.

5. CONCLUSION

The groundwater gradient determined for the Third Quarter 2002 monitoring event was found to be 0.015 ft/ft to the west, and is consistent with past determinations. The highest concentrations of TPH-g and benzene occur in the beneath the central portion of the subject building in the area of monitoring wells MW-1, MW-2 and MW-9. The locations of monitoring wells MW-6, MW-7, and MW-10 define the eastern, southern and northern edge of the hydrocarbon plume. The distribution of the former gasoline fuel additive 1,2-DCA appears to be associated with the petroleum hydrocarbon release.

Non gasoline related chlorinated volatile organic compounds TCE, cis-1,2-DCE, trans-1,2-DCE and VC were detected in groundwater samples collected from monitoring wells MW-8, MW-11, MW-12, and MW-13.

Sincerely,

Mike Krzeminski
Environmental Consultant
Environmental Services

Jon A. Rosso, P.E. for
Director

Table 1

Summary of Groundwater Elevation Data
Former Lemoine Sausage Facility
630 29th Avenue
Oakland, California

Well Identification	Date Measured	Top of Casing Elevation (ft,msl)	Depth to Water (feet)	Groundwater Elevation (ft,msl)
MW-1	9/11/2002	16.69	6.17	10.52
	6/28/2002		5.61	11.08
	3/25/2002		2.77	13.92
	12/3/2001		4.17	12.52
	9/25/2001		6.76	9.93
	6/20/2001		5.85	10.84
	3/21/2001		4.29	12.40
	12/19/2000		5.50	11.19
	9/22/2000		6.30	10.39
	6/15/2000		4.82	11.87
	2/8/1999		3.60	13.09
MW-2	9/11/2002	20.79	10.89	9.90
	6/28/2002		10.65	10.14
	3/25/2002		9.21	11.58
	12/3/2001		11.13	9.66
	9/25/2001		11.78	9.01
	6/20/2001		10.92	9.87
	3/21/2001		10.01	10.78
	12/19/2000		11.38	9.41
	9/22/2000		11.49	9.30
	6/15/2000		10.46	10.33
	2/8/1999		14.20	6.59
MW-3	Removed from monitoring program in October 2001			
	9/25/2001	21.10	10.74	10.36
	6/20/2001		10.14	10.96
	3/21/2001		8.95	12.15
	12/19/2000		9.72	11.38
	9/22/2000		15.30	5.80
	6/15/2000		10.56	10.54
	2/8/1999		7.45	13.65
MW-4	Removed from monitoring program in October 2001			
	9/25/2001	17.78	7.40	10.38
	6/20/2001		6.78	11.00
	3/21/2001		5.77	12.01
	12/19/2000		6.40	11.38
	9/22/2000		6.90	10.88
	6/15/2000		6.30	11.48
	2/8/1999		4.13	13.65

Table 1

Summary of Groundwater Elevation Data
Former Lemoine Sausage Facility
630 29th Avenue
Oakland, California

Well Identification	Date Measured	Top of Casing Elevation (ft,msl)	Depth to Water (feet)	Groundwater Elevation (ft,msl)
MW-5	Removed from monitoring program in October 2001			
	9/25/2001	21.12	10.34	10.78
	6/20/2001		9.90	11.22
	3/21/2001		8.68	12.44
	12/19/2000		9.99	11.13
	9/22/2000		9.99	11.13
	6/15/2000		10.36	10.76
	2/8/1999		7.62	13.50
MW-6	9/11/2002	16.60	5.43	11.17
	6/28/2002		5.83	10.77
	3/25/2002		3.93	12.67
	12/3/2001		4.72	11.88
	9/25/2001		6.68	9.92
	6/20/2001		6.13	10.47
	3/21/2001		4.70	11.90
	12/19/2000		5.93	10.67
	9/22/2000		6.54	10.06
	6/15/2000		5.47	11.13
MW-7	9/11/2002	15.47	6.95	8.52
	6/28/2002		6.94	8.53
	3/25/2002		6.04	9.43
	12/3/2001		6.48	8.99
	9/25/2001		7.25	8.22
	6/20/2001		6.90	8.57
	3/21/2001		5.53	9.94
	12/19/2000		7.20	8.27
	9/22/2000		7.51	7.96
	6/15/2000		6.40	9.07
MW-8	9/11/2002	17.58	8.40	9.18
	6/28/2002		7.71	9.87
	3/25/2002		5.40	12.18
	12/3/2001		6.58	11.00
	9/25/2001		8.89	8.69
	6/20/2001		7.96	9.62
	3/21/2001		6.40	11.18
	12/19/2000		7.71	9.87
	9/22/2000		8.33	9.25
	6/15/2000		7.14	10.44

Table 1

Summary of Groundwater Elevation Data
Former Lemoine Sausage Facility
630 29th Avenue
Oakland, California

Well Identification	Date Measured	Top of Casing Elevation (ft,msl)	Depth to Water (feet)	Groundwater Elevation (ft,msl)
MW-9	9/11/2002	17.58	6.91	10.67
	6/28/2002		7.71	9.87
	3/25/2002		4.98	12.63
	12/3/2001		5.79	11.82
MW-10	9/11/2002	16.92	6.16	10.76
	6/28/2002		5.65	11.27
	3/25/2002		3.00	13.92
	12/3/2001		4.22	12.70
MW-11	9/11/2002	14.87	6.91	7.96
	6/28/2002		6.35	8.52
	3/25/2002		4.68	10.19
	12/3/2001		5.67	9.20
MW-12	9/11/2002	14.05	6.82	8.05
	6/28/2002		6.13	8.74
MW-13	9/11/2002	13.39	6.66	8.21
	6/28/2002		6.21	8.66

Notes:

1. All top of casing elevations referenced to mean sea level (msl) and measured with reference to the benchmark located at Peterson Street and East 7th Street.

Table 2

Summary of Monitoring Well Groundwater Analytical Data
Former Lemoine Sausage Facility
630 29th Avenue
Oakland, California

Sample Location	Date Sampled	TPHG	MTBE	Benzene	Toluene	Ethyl benzene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-1	9/11/2002	27,000	NA	3,200	1,900	720	3,500	<4.2	<4.2	<4.2	<4.2	<4.2
	6/28/2002	26,000	NA	3,200	1,800	640	2,900	<3.1	<3.1	<3.1	<3.1	<3.1
	3/25/2002	11,000	NA	3,200	1,200	73	1,860	<5	<5	<5	<5	<5
	12/3/2001	15,000	NA	2,800	1,200	310	1,660	<3.1	<3.1	<3.1	<3.1	<3.1
	9/26/2001	16,000	NA	1,100	130	< 10	320	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
	6/21/2001	12,000	NA	2,000	880	180	1,180	3.0	<0.5	<0.5	<0.5	<0.5
	3/21/2000	21,000	NA	3,200	1,700	290	2,600	<2.5	<2.5	<2.5	<2.5	<2.5
	12/19/2000	25,000	NA	3,200	1,900	480	3,300	<2.5	<2.5	<2.5	<2.5	<2.5
	9/22/2000	25,000	<500	3,100	1,800	470	3,600	NA	NA	NA	NA	NA
	6/15/2000	29,000	NA	3,900	<100	1,900	4,200	<5.0	<5.0	<5.0	<5.0	<5.0
	2/8/1999	48,000	NA	3,900	6,300	970	4,300	<30	NA	NA	NA	NA
MW-2	9/11/2002	23,000	NA	6,600	1,000	600	1,320	10	<6.3	<6.3	<6.3	<6.3
	6/28/2002	8,400	NA	2,200	680	21	220	8.8	<3.1	<3.1	<3.1	<3.1
	3/25/2002	21,000	NA	11,000	3,700	1,000	2,790	<17	<17	<17	<17	<17
	12/3/2001	45,000	NA	13,000	5,100	950	2,930	14	<7.1	<7.1	<7.1	<7.1
	9/26/2001	26,000	NA	12,000	3,900	590	1,960	11	< 10	< 10	< 10	< 10
	6/21/2001	30,000	NA	8,600	2,600	440	1,230	5.6	<0.5	<0.5	<0.5	<0.5
	3/23/2001	34,000	NA	10,000	3,200	410	1,220	14	<13	<13	<13	<13
	12/19/2000	43,000	NA	9,800	4,000	810	2,430	21	<13	<13	<13	<13
	9/22/2000	24,000	<500	10,000	2,700	370	1,200	NA	NA	NA	NA	NA
	6/29/2000	31,000	NA	11,000	930	4,400	250	25	<5.0	<5.0	<5.0	<5.0
	2/8/1999	41,000	NA	11,000	4,900	650	1,720	60	NA	NA	NA	NA

Table 2

Summary of Monitoring Well Groundwater Analytical Data
Former Lemoine Sausage Facility
630 29th Avenue
Oakland, California

Sample Location	Date Sampled	TPHG	MTBE	Benzene	Toluene	Ethyl benzene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-3	Removed from sampling program in October 2001											
	9/26/2001	59,000	NA	12,000	13,000	780	3,680	990	< 8.3	< 8.3	< 8.3	< 8.3
	6/21/2001	34,000	NA	5,900	6,200	340	1,550	120	2.4	0.8	<0.5	<0.5
	3/22/2001	1,300	NA	98	67	51	104	2.3	<0.5	<0.5	<0.5	<0.5
	12/19/2000	50,000	NA	1,200	1,600	510	1,810	350	<8.3	<8.3	<8.3	<8.3
	9/22/2000	83,000	<1,000	16,000	20,000	1,300	7,000	NA	NA	NA	NA	NA
	6/29/2000	39,000	NA	7,800	630	8,000	3,400	600	<5.0	<5.0	<5.0	<5.0
	2/8/1999	35,000	NA	1,200	3,400	1,400	4,900	<30	NA	NA	NA	NA
MW-4	Removed from sampling program in October 2001											
	9/26/2001	17,000	NA	7,900	< 50	440	581	1.9	< 0.5	8.1	< 0.5	< 0.5
	6/21/2001	11,000	NA	2,300	26	570	641	1.4	<0.5	3.3	<0.5	<0.5
	3/22/2001	5,600	NA	1,100	13	310	303	<0.5	<0.5	1.6	<0.5	<0.5
	12/19/2000	2,200	NA	200	2.9	100	81.4	<0.5	<0.5	<0.5	<0.5	<0.5
	9/22/2000	12,000	<500	2,800	82	1,100	1,300	NA	NA	NA	NA	NA
	6/15/2000	2,300	NA	230	<5	10	94	0.88	<0.5	2.1	<0.5	<0.5
	2/8/1999	15,000	NA	670	90	780	940	<30	NA	NA	NA	NA
MW-5	Removed from sampling program in October 2001											
	9/26/2001	5,100	NA	2,400	1,200	< 10	460	22	< 3.6	< 3.6	< 3.6	< 3.6
	6/21/2001	18,000	NA	3,400	2,300	350	1,020	21	<0.5*[3]	<0.5	<0.5	<0.5
	3/22/2001	6,200	NA	1,500	360	310	288	3.3	<0.5	<0.5	<0.5	<0.5
	12/19/2000	21,000	NA	3,200	1,100	1,100	1,300	15	<4.2	<4.2	<4.2	<4.2
	9/27/2000	16,000	<500	4,300	3,100	420	1,600	NA	NA	NA	NA	NA
	6/29/2000	3,900	NA	1,500	28	330	260	36	<0.5	<0.5	<0.5	<0.5
	2/8/1999	4,900	NA	780	440	230	370	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Summary of Monitoring Well Groundwater Analytical Data
Former Lemoine Sausage Facility
630 29th Avenue
Oakland, California

Sample Location	Date Sampled	TPHG	MTBE	Benzene	Toluene	Ethyl benzene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-6	9/11/2002	120	NA	< 0.5	< 0.5	< 0.5	< 0.5	<0.5*[4]	< 0.5	< 0.5	< 0.5	< 0.5
	6/28/2002	120	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5
	3/25/2002	1,200	NA	22	8	5.7	13.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	12/3/2001	72	NA	<0.5	<0.5	<0.5	<0.5	1.6*[5]	< 0.5	< 0.5	< 0.5	< 0.5
	9/25/2001	760	NA	<0.5	<0.5	<0.5	2.9	<0.5*[4]	< 0.5	< 0.5	< 0.5	< 0.5
	6/21/2001	420	NA	<0.5	<0.5	0.59	1.00	0.9	<0.5	<0.5	<0.5	<0.5
	3/21/2001	820	NA	<0.5	<0.5	1.4	0.52	<0.5*[2]	<0.5	<0.5	<0.5	<0.5
	12/19/2000	320	NA	<0.5	<0.5	<0.5	<0.5	<0.5*[1]	<0.5	<0.5	<0.5	<0.5
	9/22/2000	71	<5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA
	6/15/2000	1,100	NA	3.8	2.2	2.1	4.8	0.78	<0.5	<0.5	<0.5	<0.5
MW-7	9/11/2002	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/28/2002	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/25/2002	<50	NA	0.56	0.75	<0.5	0.69	<0.5	<0.5	<0.5	<0.5	<0.5
	12/3/2001	82	NA	24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	9/25/2001	< 50	NA	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	6/21/2001	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/21/2001	160	NA	59	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/19/2000	<50	NA	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	9/22/2000	<50	<5	2	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA
	6/15/2000	1,000	NA	250	<10	<10	16	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

Summary of Monitoring Well Groundwater Analytical Data
Former Lemoine Sausage Facility
630 29th Avenue
Oakland, California

Sample Location	Date Sampled	TPHG	MTBE	Benzene	Toluene	Ethyl benzene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-8	9/11/2002	2,000	NA	390	1.6	39	<1.0	<3.6	17	1,000	60	91
	6/28/2002	2,200	NA	410	<1.0	40	<1.0	4.9	18	900	54	80
	3/25/2002	990	NA	280	7.2	1.4	6.8	3.6	10	790	33	49
	12/3/2001	1,200	NA	190	14	2.7	11.3	<2.5	100	650	44	31
	9/25/2001	1,500	NA	170	4.3	1.6	2.7	5.0	36	820	59	53
	6/21/2001	2,400	NA	490	<2.5	29	<2.5	4.9	28	910	48	75
	3/21/2001	3,500	NA	530	<2.5	21	<2.5	<3.6	32	760	39	58
	12/19/2000	2,700	NA	410	<2.5	4.8	<2.5	9.1	130	1,000	67	48
	9/22/2000	1,800	<25	340	<2.5	<2.5	<2.5	NA	NA	NA	NA	NA
	6/15/2000	5,400	NA	150	<5	8.9	8.7	<13	210	1,100	73	25
MW-9	9/11/2002	57,000	NA	8,300	6,100	340	4,700	18	<10	<10	<10	<10
	6/28/2002	60,000	NA	5,800	7,400	1,100	5,400	<13	<13	<13	<13	<13
	3/25/2002	71,000	NA	15,000	17,000	1,900	8,000	<31	<31	<31	<31	<31
	12/3/2001	90,000	NA	15,000	15,000	2,200	9,100	<10	<10	<10	<10	<10
MW-10	9/11/2002	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/28/2002	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/25/2002	51	NA	2.5	3.6	0.53	2.27	<0.5	<0.5	<0.5	<0.5	<0.5
	12/3/2001	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-11	9/11/2002	120	NA	66	<0.5	0.74	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	6/28/2002	<50	NA	7.7	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
	3/25/2002	130	NA	11	20	3.3	14.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/3/2001	1,600	NA	470	<0.5	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-12	9/11/2002	89	NA	<0.5	<0.5	<0.5	<0.5	<0.5	180	46	51	0.9
	6/28/2002	71	NA	<0.5	<0.5	<0.5	<0.5	<0.5	170	42	47	0.9

Table 2

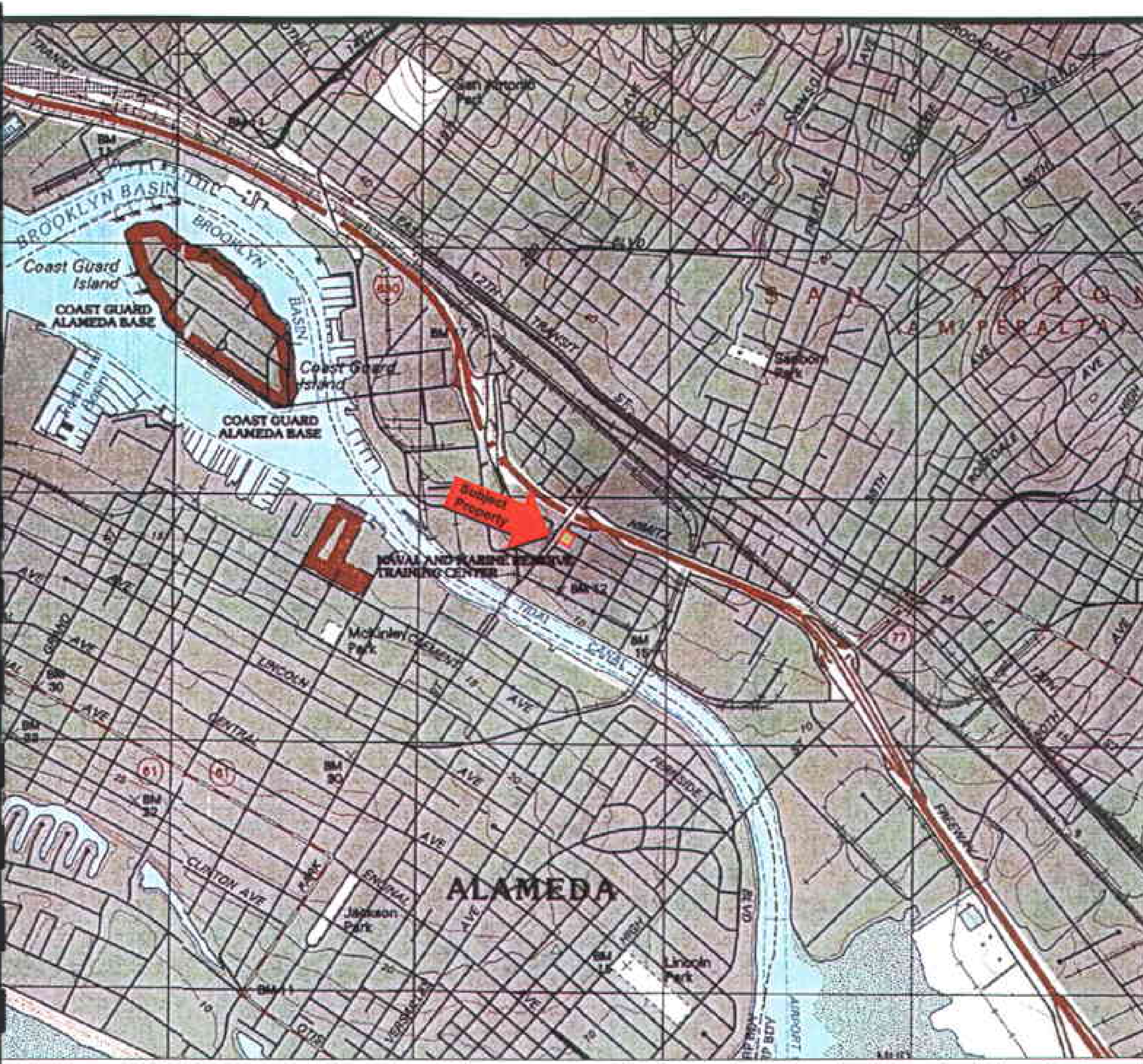
Summary of Monitoring Well Groundwater Analytical Data
Former Lemoine Sausage Facility
630 29th Avenue
Oakland, California

Sample Location	Date Sampled	TPHG	MTBE	Benzene	Toluene	Ethyl benzene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-13	9/11/2002	4,500	NA	58	7.5	150	14	<0.5	63[*7]	410	13	<1.3
	6/28/2002	5,600	NA	120	55	130	9.5	<0.5	61[*6]	430	14	4.4

Notes:

1. All results in micrograms per liter (µg/L).
2. NA = Not Analyzed.
3. 1,2-DCA = 1,2-dichloroethane.
4. TPHG = Total Petroleum Hydrocarbons as Gasoline.
5. MTBE = methyl tert-butyl ether.
6. TCE = Trichlororethene.
7. DCE = Dichlororethene.
8. VC= Vinyl Chloride.

[*1] 1,1-DCA detected at 1.1 µg/L.
[*2] 1,1-DCA detected at 0.9 µg/L.
[*3] Freon -11 detected at 0.6 µg/L.
[*4] 1,1-DCA detected at 0.9 µg/L
[*5] 1,1-DCA detected at 0.7 µg/L
[*6] 1,1-DCE detected at 4.7 µg/L
[*7] 1,1-DCE detected at 5.2 µg/L



Map Source: TOPO!© 2000 National Geographic Holdings

Note: Boundaries and Location Information is Approximate

1 ½ 0 1 MILE

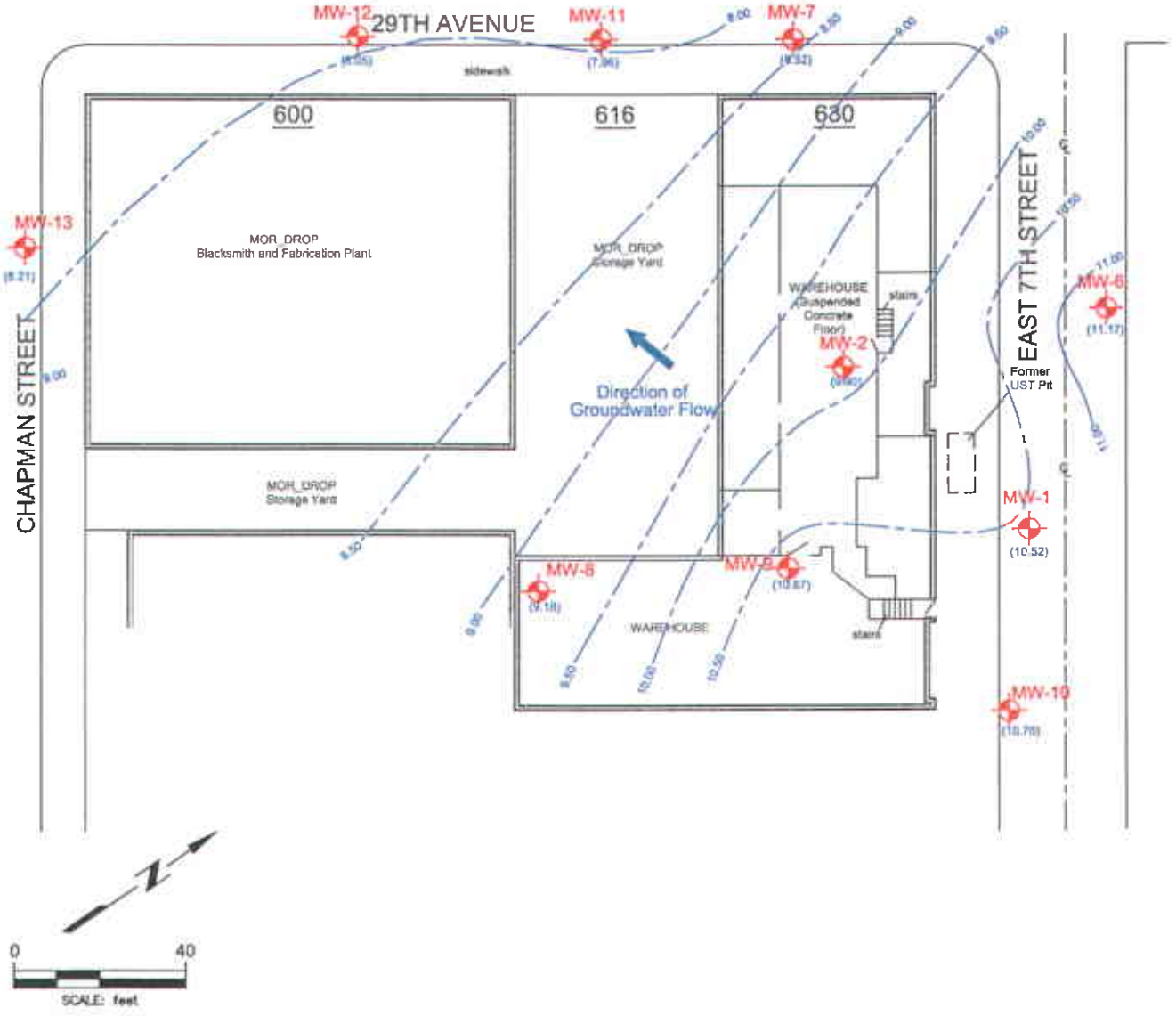
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

Portion of the 7.5-Minute Series Oakland East, California
Quadrangle Topographic Map (Datum: NAD 27)
United States Department of the Interior
Geological Survey
1997

N

QUADRANGLE LOCATION

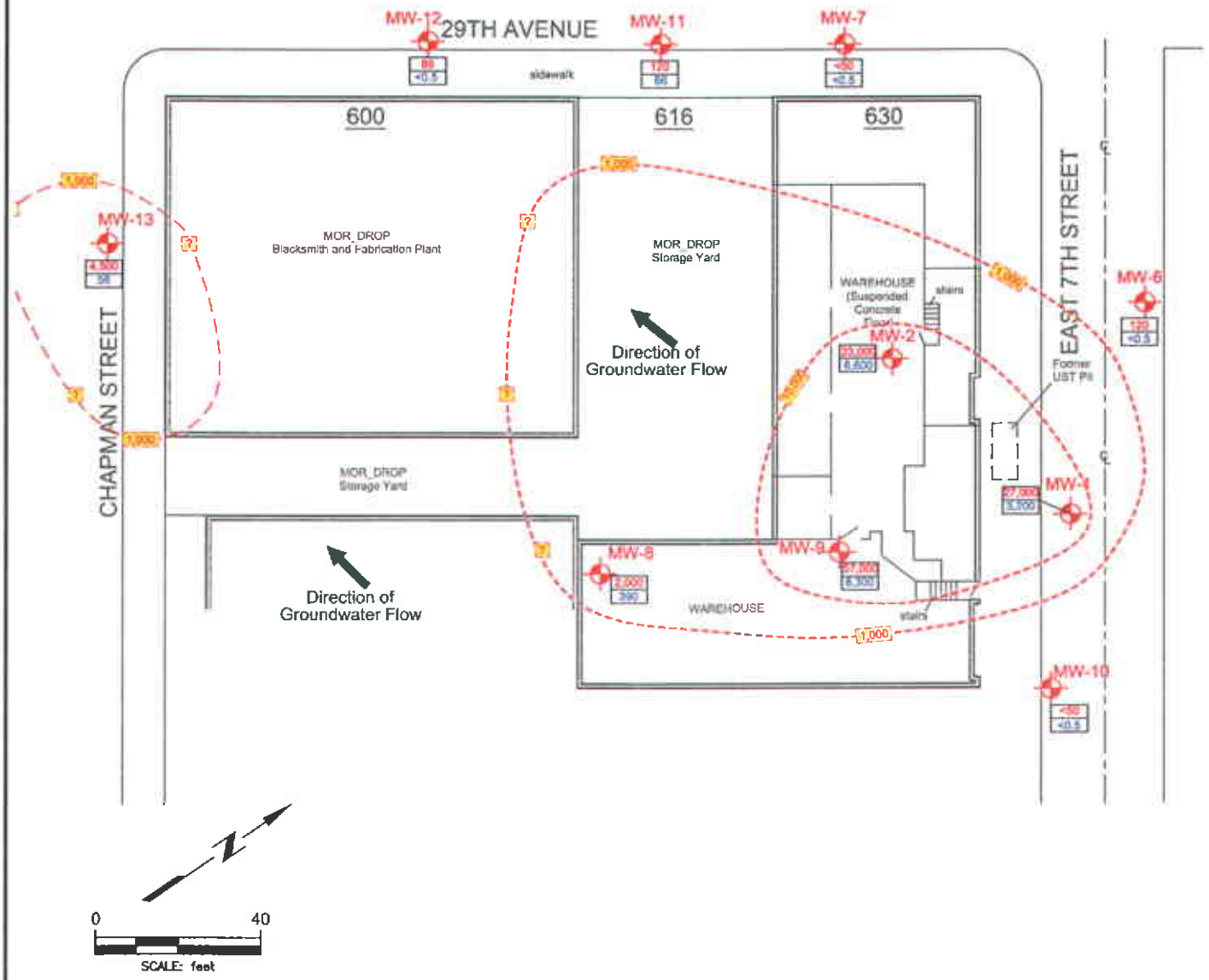
PROPERTY LOCATION MAP	Figure	
Former Lemoine Sausage Factory 630 29th Avenue Oakland, California Clayton Project No. 70-97066.00	1	Clayton GROUP SERVICES



Note:
Water table elevation contours are approximate.
** Groundwater elevation not used in contouring.

LEGEND	GROUNDWATER ELEVATION CONTOUR MAP (September 11, 2002)	Figure
Existing Monitoring Well Location (10.52) Groundwater Elevation in Feet above Mean Sea Level 10.00 ---- Groundwater Surface Contour and Elevation	FORMER LEMOINE SAUSAGE FACTORY 630 29TH AVENUE OAKLAND, CALIFORNIA Clayton Project No. 70-97066.00	2 10/30/02 Q3RD_02.dwg

Clayton GROUP SERVICES



Note:
Isoconcentration contours are approximate.

LEGEND

MW-1 Existing Monitoring Well Location

23,000 TPH-G Concentration (micrograms per liter)

3,200 Benzene Concentration (micrograms per liter)

1,000 Isoconcentration Contour (micrograms per liter)

TPH as Gasoline

CONCENTRATIONS IN GROUNDWATER
September, 2002

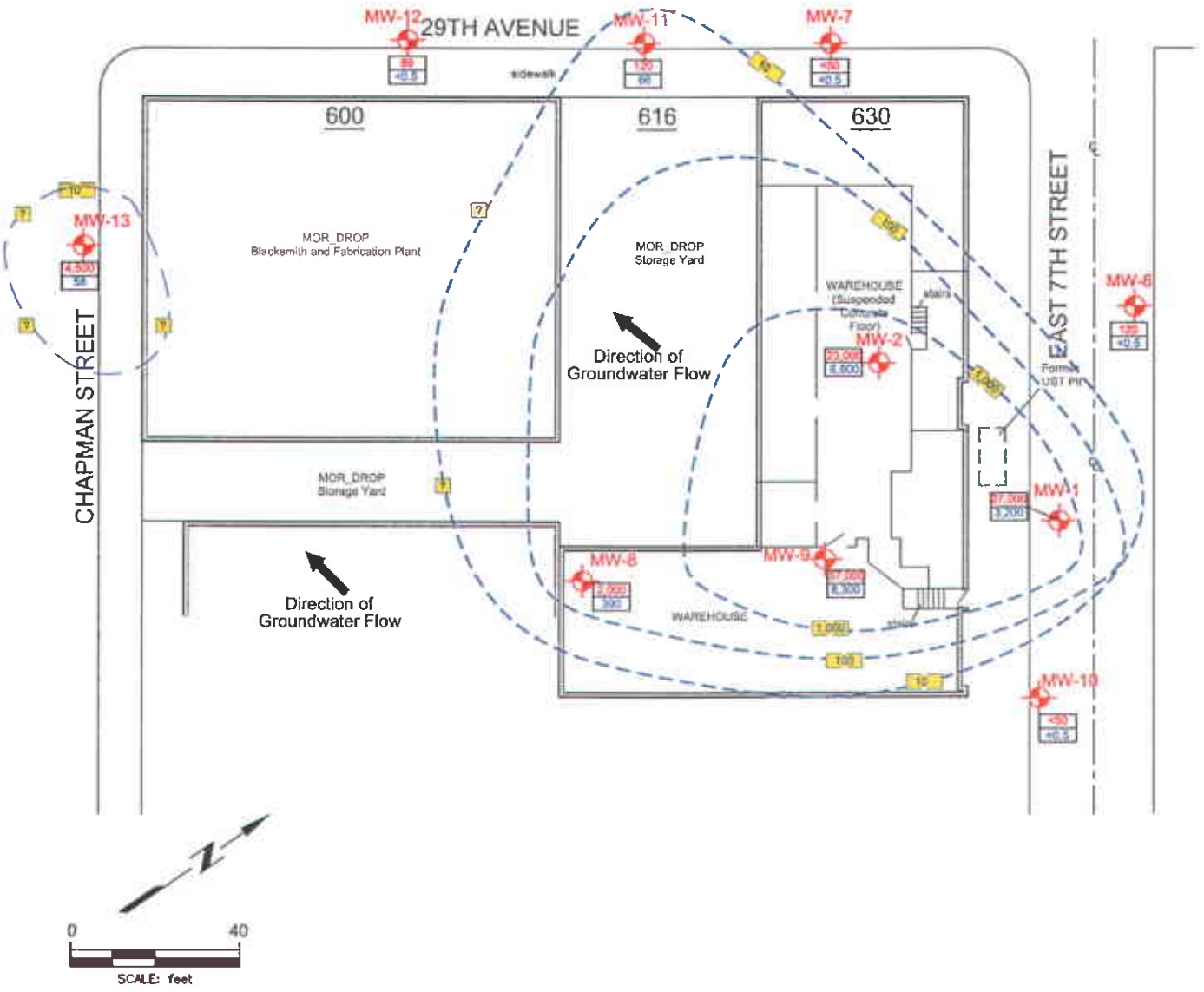
FORMER LEMOINE SAUSAGE FACTORY
630 29TH AVENUE
OAKLAND, CALIFORNIA
Clayton Project No. 70-97066.00

Figure

3a

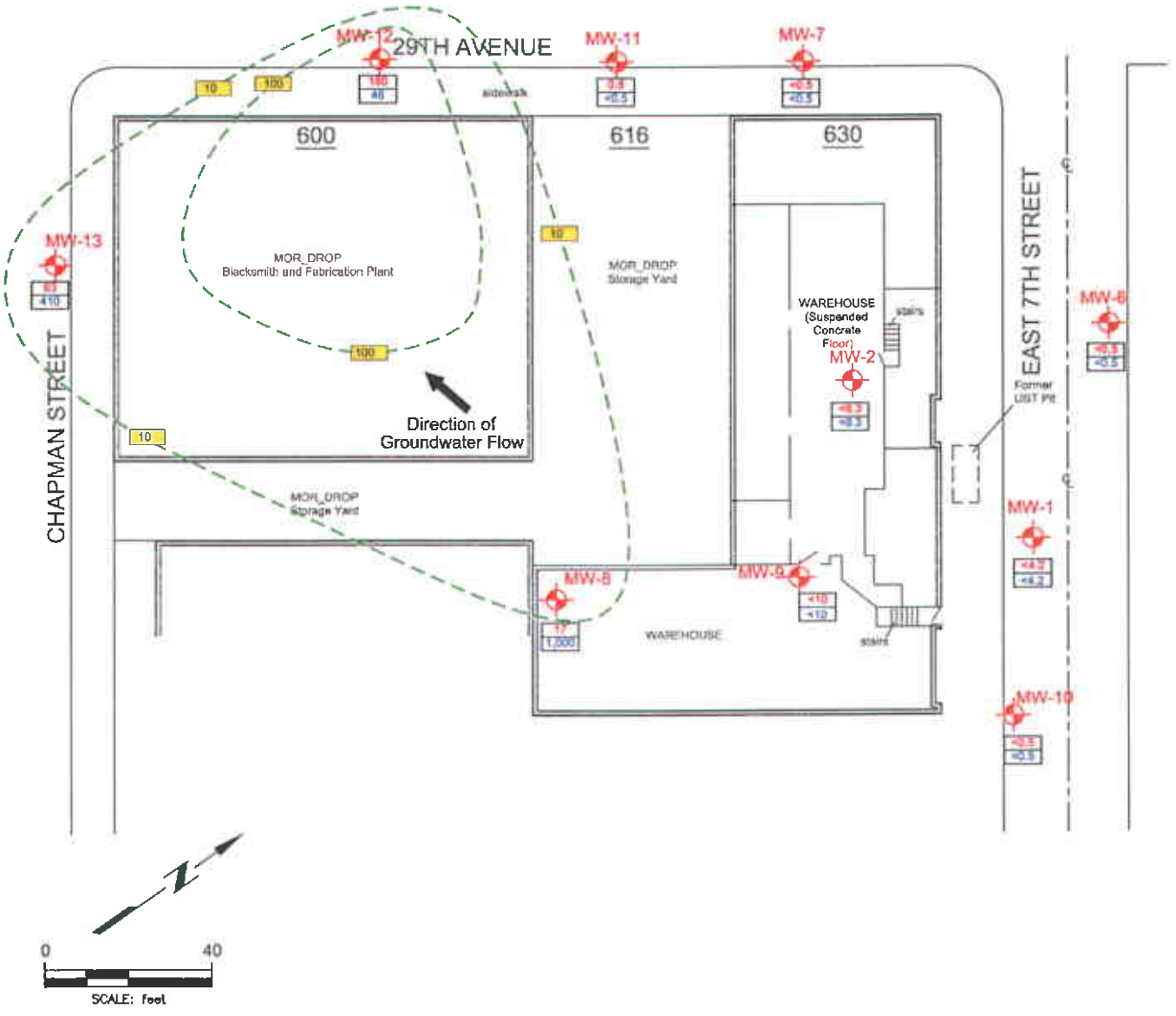
10/30/02
Q3RD_02.dwg

Clayton GROUP SERVICES



Note:
Isoconcentration contours are approximate.

LEGEND	BENZENE	Figure	
MW-1 Existing Monitoring Well Location 23,000 TPH-G Concentration (micrograms per liter) 3,200 Benzene Concentration (micrograms per liter) 1,000 Isoconcentration Contour (micrograms per liter)	CONCENTRATIONS IN GROUNDWATER September, 2002 FORMER LEMOINE SAUSAGE FACTORY 630 29TH AVENUE OAKLAND, CALIFORNIA Clayton Project No. 70-97066.00	3b 10/30/02 Q3RD_02.dwg	Clayton GROUP SERVICES



LEGEND

MW-12 Existing Monitoring Well Location

180 TCE Concentration (micrograms per liter)

46 cis 1,2-DCE Concentration (micrograms per liter)

100 TCE Isoconcentration Contour (micrograms per liter)

TCE and cis-1,2 DCE
CONCENTRATIONS IN GROUNDWATER
September, 2002
FORMER LEMOINE SAUSAGE FACTORY
630 29TH AVENUE
OAKLAND, CALIFORNIA
Clayton Project No. 70-97066.00

Figure
4

10/30/02
Q3RD_02.dwg

Clayton GROUP SERVICES

APPENDIX A

THIRD QUARTER (SEPTEMBER) 2002

GROUNDWATER SAMPLING LOGS

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	9-11
	Oakland, California	Purge Method:	peristaltic pump
Sampling Location:	**MW-1**	Date & Time Sampled:	9-11 13:00
Top of Casing:	16.69 (ft, msl)	Sampling Method:	peristaltic pump
Depth to Water:	6.17	Sample Type:	TPHG/BTEX /8021B
Groundwater Elevation	10.52	Preservatives:	HCL
Well Bottom	7.69	# of Containers:	5
Water Column:	2.83	Field Tech:	MK
Well Casing Volume:	0.02 gal (WC* 0.01)	Weather Conditions:	Excellent
Casing Volumes Purged:	1		
Purge Rate:	-		3/4" dia well

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x1000	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
12:55	0	6.21	1.20	-	76.9	-
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Field Notes:

pumped dry @ 12:55

pH meter not responding correctly

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	9-11
	Oakland, California	Purge Method:	Peristaltic Pump
Sampling Location:	**MW-2**	Date & Time Sampled:	9-11 14:00
Top of Casing:	20.79 (ft, msl)	Sampling Method:	Peristaltic Pump
Depth to Water:	10.89	Sample Type:	TPHG/BTEX /8021B
Groundwater Elevation	9.90	Preservatives:	HCL
Well Bottom	0.79	# of Containers:	5
Water Column:	9.11	Field Tech:	MK
Well Casing Volume:	0.099 gal (WC* 0.01)	Weather Conditions:	
Casing Volumes Purged:	3		
Purge Rate:	.376 / 6 = .646 gal/min	3/4" dia well	

Time	Volume Removed ~~(gal)~~ mL	pH	Specific Conductivity (µmhos/cm) x(10)	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
13:46	0	6.85	3.09	~	66.0	~
13:47	300 mL	6.60	3.18		65.9	
13:50	300 mL	6.55	3.24		66.4	
13:52	300 mL	6.56	3.27		65.8	
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Field Notes:

Pumped Dry @ 13:52

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	9-11
	Oakland, California	Purge Method:	Submersible Pump
Sampling Location:	**MW-6**	Date & Time Sampled:	9-11 11:56
Top of Casing:	16.6 (ft, msl)	Sampling Method:	Bailer
Depth to Water:	11.17	Sample Type:	TPHG/BTEX /8021B
Groundwater Elevation	5.43	Preservatives:	HCL
Well Bottom	-3.40	# of Containers:	5- VOA
Water Column:	8.83	Field Tech:	MK
Well Casing Volume:	1.41 gal (WC* 0.16)	Weather Conditions:	Immaculate
Casing Volumes Purged:	4		
Purge Rate:	5.64/6~ 0.94 gal/min		2" dia well

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x(10)	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
11:40	0	6.45	1.57	~	70.3	~
11:41	1.3	6.33	1.44		71.9	
11:43	1.3	6.58	1.36		73.4	
11:44	1.3	7.01	1.43		73.3	
11:46	1.3	7.36	1.44		72.7	
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Field Notes:

PH meter not working properly

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	9-11
	Oakland, California	Purge Method:	Submersible pump
Sampling Location:	MW-7	Date & Time Sampled:	9-11 11:25
Top of Casing:	15.47 (ft, msl)	Sampling Method:	Bailer
Depth to Water:	6.95	Sample Type:	TPHG/BTEX/8021B
Groundwater Elevation	8.52	Preservatives:	HCL
Well Bottom	-4.53	# of Containers:	5
Water Column:	13.05	Field Tech:	MK
Well Casing Volume:	2.08 gal (WC* 0.16)	Weather Conditions:	Extravagant
Casing Volumes Purged:	4		
Purge Rate:	8.32 / 7 = 1.18 gal/min		2" dia well

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm)x1000	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
11:14	0	6.52	1.16	-	70.0	-
11:16	2.0	6.76	1.17		70.3	
11:18	2.0	6.42	1.14		69.4	
11:20	2.0	6.58	1.12		68.3	
11:21	2.0	6.93	1.12		67.4	
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Field Notes:

PH meter not responding properly

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	9-11
	Oakland, California	Purge Method:	Bailer
Sampling Location:	**MW-8**	Date & Time Sampled:	9-11
Top of Casing:	17.58 (ft, msl)	Sampling Method:	Bailer 17:50
Depth to Water:	~~13:44~~ 8.40	Sample Type:	TPHG/BTEX /8021B
Groundwater Elevation	9.18	Preservatives:	HCL
Well Bottom	-2.42	# of Containers:	5
Water Column:	11.6	Field Tech:	MK
Well Casing Volume:	1.85 gal (WC* 0.16)	Weather Conditions:	Pleasant
Casing Volumes Purged:	4		
Purge Rate:	7.4/7 ~ 1.05 gal/min	2" dia well	

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm)	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
13:25	0	6.54	1.26	~	66.3	~
13:24	1.8	7.21	1.25		64.6	
13:35	1.8	6.91	1.27		69.4	
13:38	1.8	6.93	1.30		64.1	
13:42	1.8	6.94	1.31		63.9	
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Field Notes:

[redacted]

MK

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	9-11
	Oakland, California	Purge Method:	Bailer 14:38
Sampling Location:	**MW-9**	Date & Time Sampled:	9-11
Top of Casing:	17.61 (ft, msl)	Sampling Method:	Bailer
Depth to Water:	6.91	Sample Type:	TPHG/BTEX /8021B
Groundwater Elevation	10.7	Preservatives:	HCl
Well Bottom	2.61	# of Containers:	5
Water Column:	5.09	Field Tech:	MK
Well Casing Volume:	1.29 gal (WC* 0.16)	Weather Conditions:	Sunny
Casing Volumes Purged:	4		
Purge Rate:	5.16/10 ≈ 0.516 gal/min		2" dia well

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x1000	Redox Potential (mVolts)	Temperature (°F) or °C)	Dissolved Oxygen (mg/L)
14:15	0	7.22	3.26	-	67.0	-
14:17	1.3	7.04	3.54		66.1	
14:20	1.3	7.01	4.24		65.7	
14:22	1.3	7.16	4.16		64.2	
14:25	1.3	6.42	3.78		63.6	
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Field Notes:

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	9-11
	Oakland, California	Purge Method:	Submersible pump
Sampling Location:	**MW-10**	Date & Time Sampled:	9-11 12:15
Top of Casing:	16.92 (ft, msl)	Sampling Method:	Bailer
Depth to Water:	6.14	Sample Type:	TPHG/BTEX /8021B
Groundwater Elevation	10.76	Preservatives:	HCL
Well Bottom	7.92	# of Containers:	5
Water Column:	2.84	Field Tech:	MK
Well Casing Volume:	0.45 gal (WC* 0.16)	Weather Conditions:	Glorious
Casing Volumes Purged:	4		
Purge Rate:	1.815 ≈ 0.36 gal/min		2" dia well

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x1000	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
12:03	0	7.40	0.86	–	78.4	–
12:04	0.45	7.16	0.86		79.2	
12:06	0.45	6.98	0.87		79.3	
12:07	0.45	6.95	0.87		79.7	
12:08	0.45	6.72	0.86		79.5	
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Field Notes:

Pumped dry @ 12:08

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	9-11
	Oakland, California	Purge Method:	Submersible pump
Sampling Location:	**MW-11**	Date & Time Sampled:	9-11 10:50
Top of Casing:	14.87 (ft, msl)	Sampling Method:	Bailer
Depth to Water:	6.91	Sample Type:	TPHG/BTEX/8021B
Groundwater Elevation	7.96	Preservatives:	HCL
Well Bottom	-0.13	# of Containers:	5
Water Column:	8.09	Field Tech:	MK
Well Casing Volume:	1.29 gal (WC* 0.16)	Weather Conditions:	Grand
Casing Volumes Purged:	3		
Purge Rate:	3.87/10 = 0.387 gal/min	2" dia well	

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x1000	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
10:34	0	7.69	1.82	-	66.7	-
10:35	1.3	7.15	1.78		66.7	
10:38	1.3	6.82	1.76		66.4	
10:44	1.3	6.78	1.87		67.1	
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Field Notes:

Pumped Dry @ 10:38

" " @ 10:44

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	9-11
	Oakland, California	Purge Method:	Submersible Pump
Sampling Location:	**MW-12**	Date & Time Sampled:	9-11 10:22
Top of Casing:	14.05 (ft, msl)	Sampling Method:	Bailer
Depth to Water:	6.82	Sample Type:	TPHG/BTEX /8021B
Groundwater Elevation	7.23	Preservatives:	HCL
Well Bottom	-0.95	# of Containers:	5
Water Column:	8.18	Field Tech:	MK
Well Casing Volume:	1.3 gal (WC* 0.16)	Weather Conditions:	Beautiful
Casing Volumes Purged:	4		
Purge Rate:	5.2 / 6 = 0.86 gal/min	2" dia well	

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x1K	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
10:10	0	7.05	2.19	—	65.4	—
10:12	1.3	6.99	2.19		66.2	
10:13	1.3	6.98	2.20		66.5	
10:15	1.3	6.94	2.21		66.7	
10:16	1.3	6.91	2.19		66.4	
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Field Notes:

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	9-11
	Oakland, California	Purge Method:	Submersible pump
Sampling Location:	**MW-13**	Date & Time Sampled:	9-11 9:45
Top of Casing:	13.39 (ft, msl)	Sampling Method:	Bailer
Depth to Water:	6.66	Sample Type:	TPHG/BTEX /8021B
Groundwater Elevation	6.73	Preservatives:	HCL
Well Bottom	-1.61	# of Containers:	5
Water Column:	8.34	Field Tech:	MK
Well Casing Volume:	1.3 gal (WC* 0.16)	Weather Conditions:	Exquisit
Casing Volumes Purged:	4		
Purge Rate:	5.2# T~ 0.74 gal/min	2" dia well	

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x1000	Redox Potential (mVolts)	Temperature (°F) or °C)	Dissolved Oxygen (mg/L)
9:32	0	6.32	1.01	—	69.0	—
9:34	1.3	6.53	0.99		68.4	
9:36	1.3	6.94	0.99		68.1	
9:38	1.3	6.84	1.04		69.9	
9:39	1.3	6.78	1.03		69.7	
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Field Notes:

APPENDIX B

THIRD QUARTER (SEPTEMBER) 2002

LABORATORY ANALYTICAL DATA SHEETS AND CHAIN-OF-CUSTODY DOCUMENTATION

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Clayton Group Services
6920 Koll Center Parkway
Suite 216
Pleasanton, CA 94566

Date: 25-SEP-02
Lab Job Number: 160688
Project ID: 70-97066.00
Location: Sausage Factory

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

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B(M)
Matrix:	Water	Sampled:	09/11/02
Units:	ug/L	Received:	09/11/02

Field ID:	MW-01	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	75214
Lab ID:	160688-001	Analyzed:	09/14/02

Analyte	Result	RL
Gasoline C7-C12	27,000	250

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	68-145
Bromofluorobenzene (FID)	89	66-143

Field ID:	MW-02	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	75228
Lab ID:	160688-002	Analyzed:	09/14/02

Analyte	Result	RL
Gasoline C7-C12	23,000	1,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	68-145
Bromofluorobenzene (FID)	107	66-143

Field ID:	MW-06	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	75214
Lab ID:	160688-003	Analyzed:	09/13/02

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	68-145
Bromofluorobenzene (FID)	90	66-143

Field ID:	MW-07	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	75214
Lab ID:	160688-004	Analyzed:	09/14/02

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	68-145
Bromofluorobenzene (FID)	89	66-143

Y= Sample exhibits fuel pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Matrix:	Water	Sampled:	09/11/02
Units:	ug/L	Received:	09/11/02

Field ID:	MW-01	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	75267
Lab ID:	160688-001	Analyzed:	09/16/02

Analyte	Result	RL
Benzene	3,200	5.0
Toluene	1,900	5.0
Ethylbenzene	720	5.0
m,p-Xylenes	2,000	5.0
o-Xylene	1,500	5.0

Surrogate	%REC	Limits
Trifluorotoluene (PID)	92	53-143
Bromofluorobenzene (PID)	80	52-142

Field ID:	MW-02	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	75228
Lab ID:	160688-002	Analyzed:	09/14/02

Analyte	Result	RL
Benzene	6,600	10
Toluene	1,000	10
Ethylbenzene	600	10
m,p-Xylenes	1,200	10
o-Xylene	120	10

Surrogate	%REC	Limits
Trifluorotoluene (PID)	87	53-143
Bromofluorobenzene (PID)	89	52-142

Field ID:	MW-06	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	75214
Lab ID:	160688-003	Analyzed:	09/13/02

Analyte	Result	RL
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	53-143
Bromofluorobenzene (PID)	82	52-142

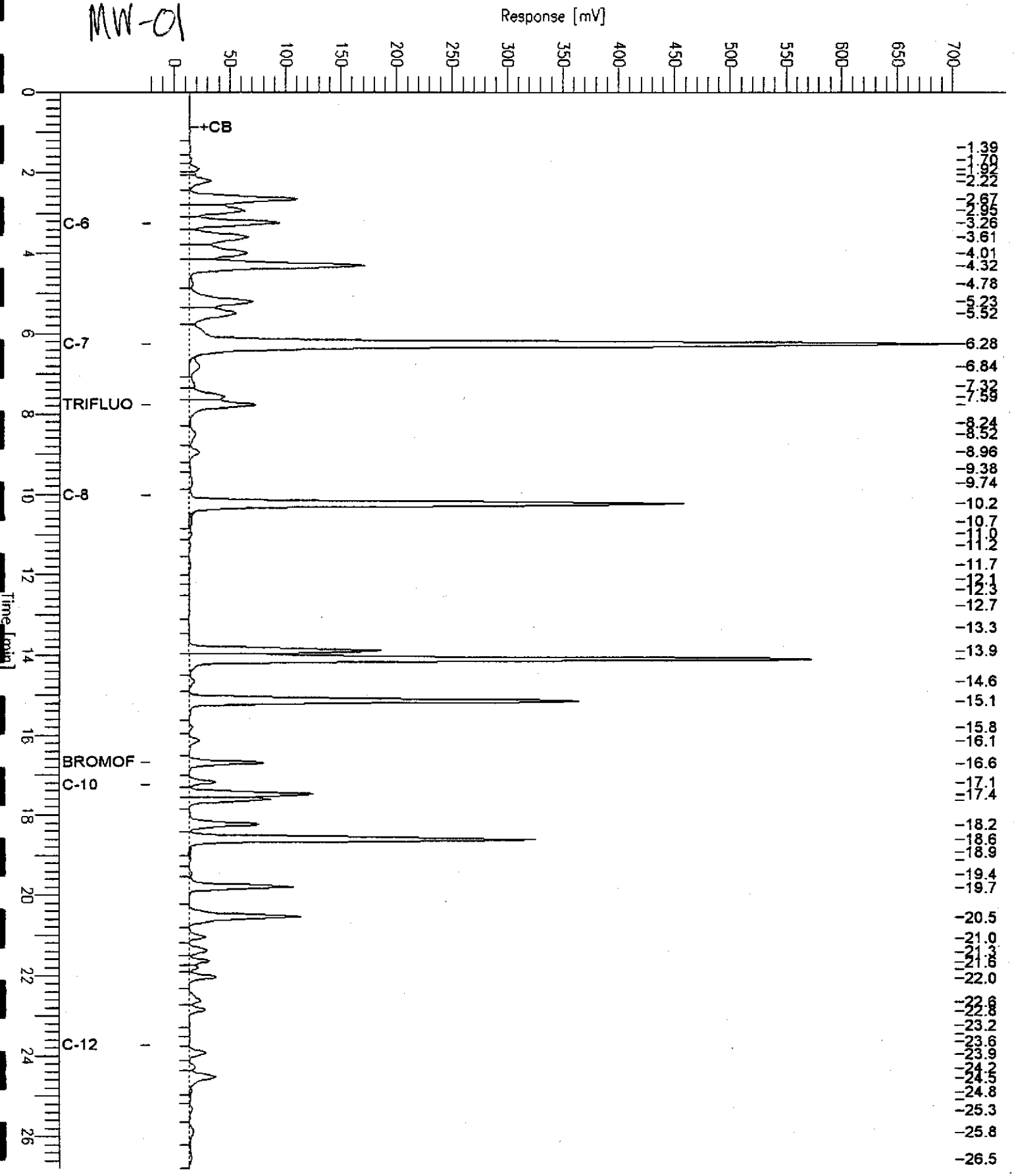
ND= Not Detected
RL= Reporting Limit

GC19 TVH 'X' Data File (FID)

Sample Name : 160688-001,75214
FileName : G:\GC19\DATA\256X021.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: -21 mV

Sample #: e1 Page 1 of 1
Date : 9/14/02 04:00 AM
Time of Injection: 9/14/02 03:33 AM
Low Point : -20.68 mV High Point : 703.42 mV
Plot Scale: 724.1 mV

MW-01

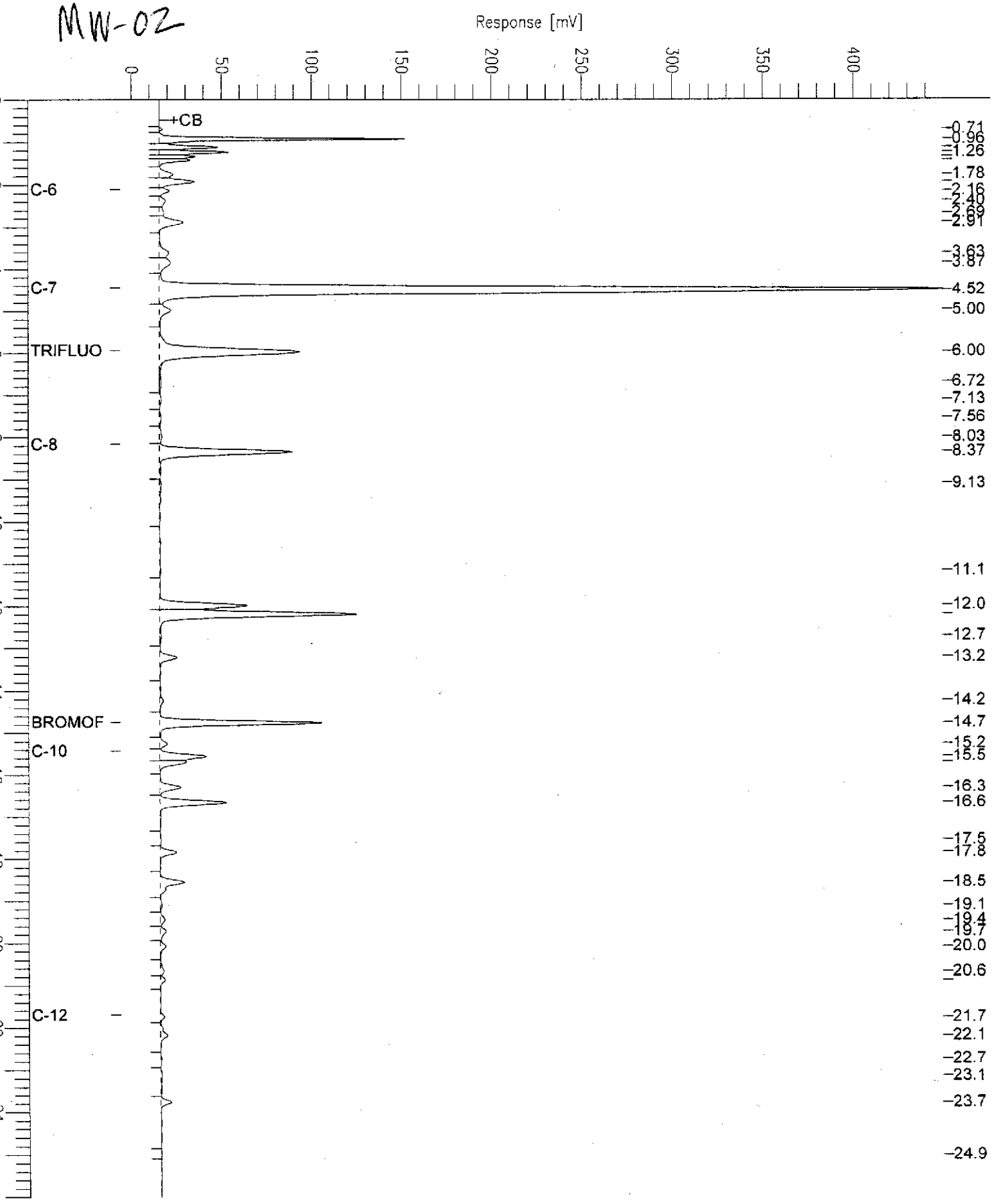


GC07 TVH 'A' Data File RTX 502

Sample Name : 160688-002,75228
FileName : G:\GC07\DATA\257A009.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: -6 mV

Sample #: e1 HS Page 1 of 1
Date : 9/14/02 07:10 PM
Time of Injection: 9/14/02 06:44 PM
Low Point : -6.29 mV High Point : 449.01 mV
Plot Scale: 455.3 mV

MW-02



Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B(M)
Matrix:	Water	Sampled:	09/11/02
Units:	ug/L	Received:	09/11/02

ield ID:	MW-08	Diln Fac:	1.000
ype:	SAMPLE	Batch#:	75214
Lab ID:	160688-005	Analyzed:	09/14/02

Analyte	Result	RL
Gasoline C7-C12	2,000	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	68-145
Bromofluorobenzene (FID)	92	66-143

ield ID:	MW-09	Diln Fac:	20.00
ype:	SAMPLE	Batch#:	75228
Lab ID:	160688-006	Analyzed:	09/14/02

Analyte	Result	RL
Gasoline C7-C12	57,000	1,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	114	68-145
Bromofluorobenzene (FID)	112	66-143

ield ID:	MW-10	Diln Fac:	1.000
ype:	SAMPLE	Batch#:	75228
Lab ID:	160688-007	Analyzed:	09/14/02

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	68-145
Bromofluorobenzene (FID)	118	66-143

Field ID:	MW-11	Diln Fac:	1.000
ype:	SAMPLE	Batch#:	75214
ab ID:	160688-008	Analyzed:	09/14/02

Analyte	Result	RL
Gasoline C7-C12	120	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	68-145
Bromofluorobenzene (FID)	88	66-143

Y= Sample exhibits fuel pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Matrix:	Water	Sampled:	09/11/02
Units:	ug/L	Received:	09/11/02

Field ID:	MW-07	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	75228
Lab ID:	160688-004	Analyzed:	09/14/02

Analyte	Result	RL
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)	80	53-143
Bromofluorobenzene (PID)	89	52-142

Field ID:	MW-08	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	75228
Lab ID:	160688-005	Analyzed:	09/14/02

Analyte	Result	RL
Benzene	390	0.50
Toluene	1.6	0.50
Ethylbenzene	39	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	90	53-143
Bromofluorobenzene (PID)	93	52-142

Field ID:	MW-09	Diln Fac:	25.00
Type:	SAMPLE	Batch#:	75267
Lab ID:	160688-006	Analyzed:	09/16/02

Analyte	Result	RL
Benzene	8,300	13
Toluene	6,100	13
Ethylbenzene	340	13
m,p-Xylenes	3,300	13
o-Xylene	1,400	13

Surrogate	%REC	Limits
Trifluorotoluene (PID)	90	53-143
Bromofluorobenzene (PID)	82	52-142

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Matrix:	Water	Sampled:	09/11/02
Units:	ug/L	Received:	09/11/02

ield ID:	MW-10	Diln Fac:	1.000
ype:	SAMPLE	Batch#:	75228
Lab ID:	160688-007	Analyzed:	09/14/02

Analyte	Result	RL
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)	83	53-143
Bromofluorobenzene (PID)	93	52-142

ield ID:	MW-11	Diln Fac:	1.000
ype:	SAMPLE	Batch#:	75228
Lab ID:	160688-008	Analyzed:	09/14/02

Analyte	Result	RL
Benzene	66	0.50
Toluene	ND	0.50
Ethylbenzene	0.74	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	84	53-143
Bromofluorobenzene (PID)	90	52-142

Field ID:	MW-12	Diln Fac:	1.000
ype:	SAMPLE	Batch#:	75228
ab ID:	160688-009	Analyzed:	09/14/02

Analyte	Result	RL
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	53-143
Bromofluorobenzene (PID)	94	52-142

D= Not Detected
L= Reporting Limit

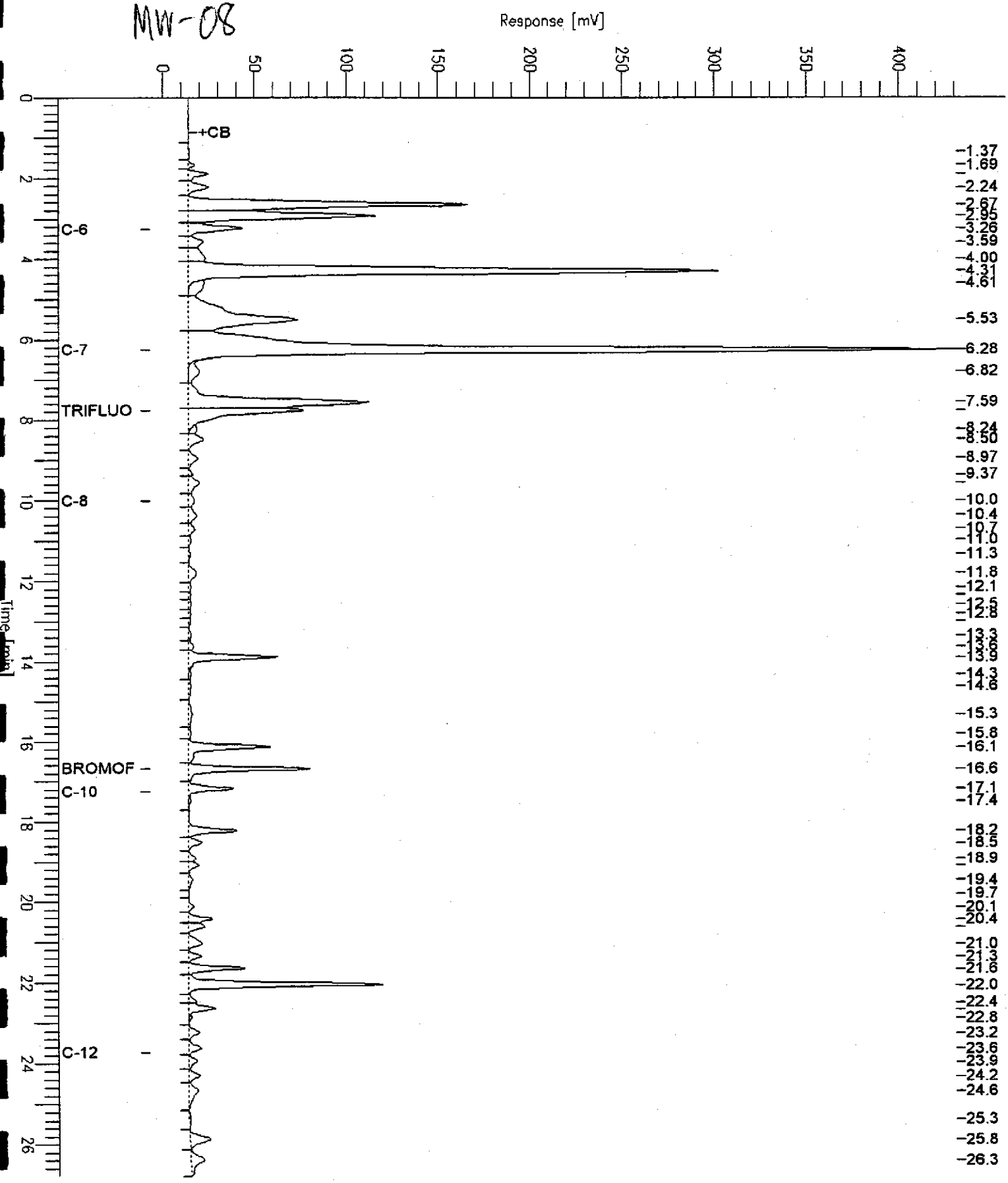
24.0

GC19 TVH 'X' Data File (FID)

Sample Name : 160688-005,75214
FileName : G:\GC19\DATA\256X018.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: -7 mV

Sample #: e1 Page 1 of 1
Date : 9/14/02 02:07 AM
Time of Injection: 9/14/02 01:40 AM
Low Point : -6.81 mV High Point : 431.40 mV
Plot Scale: 438.2 mV

MW-08

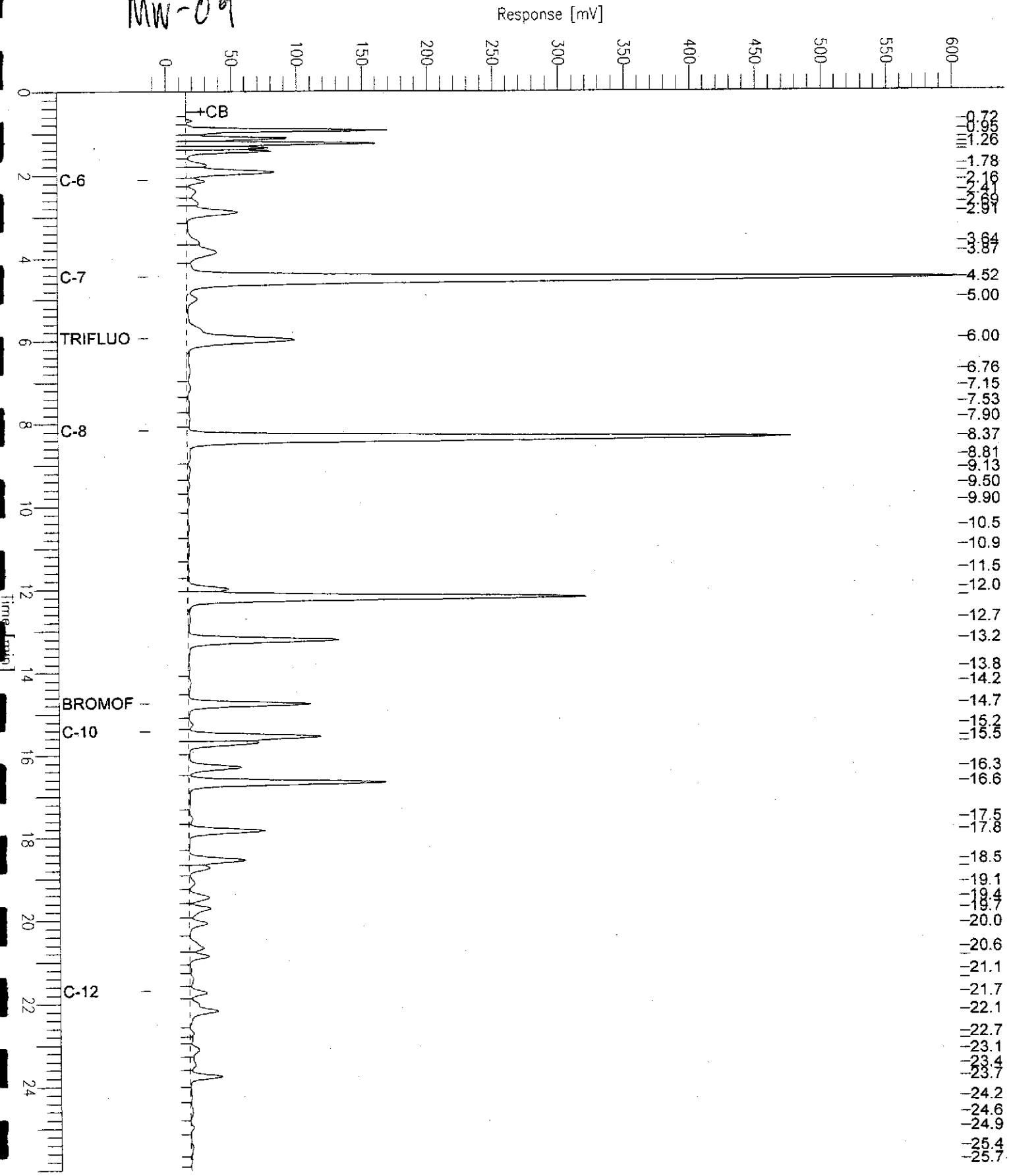


GC07 TVH 'A' Data File RTX 502

Sample Name : 160688-006,75228
FileName : G:\GC07\DATA\257A010.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: -14 mV

Sample #: d1 HS Page 1 of 1
Date : 9/14/02 07:44 PM
Time of Injection: 9/14/02 07:18 PM
Low Point : -13.81 mV High Point : 603.43 mV
Plot Scale: 617.2 mV

MW-09

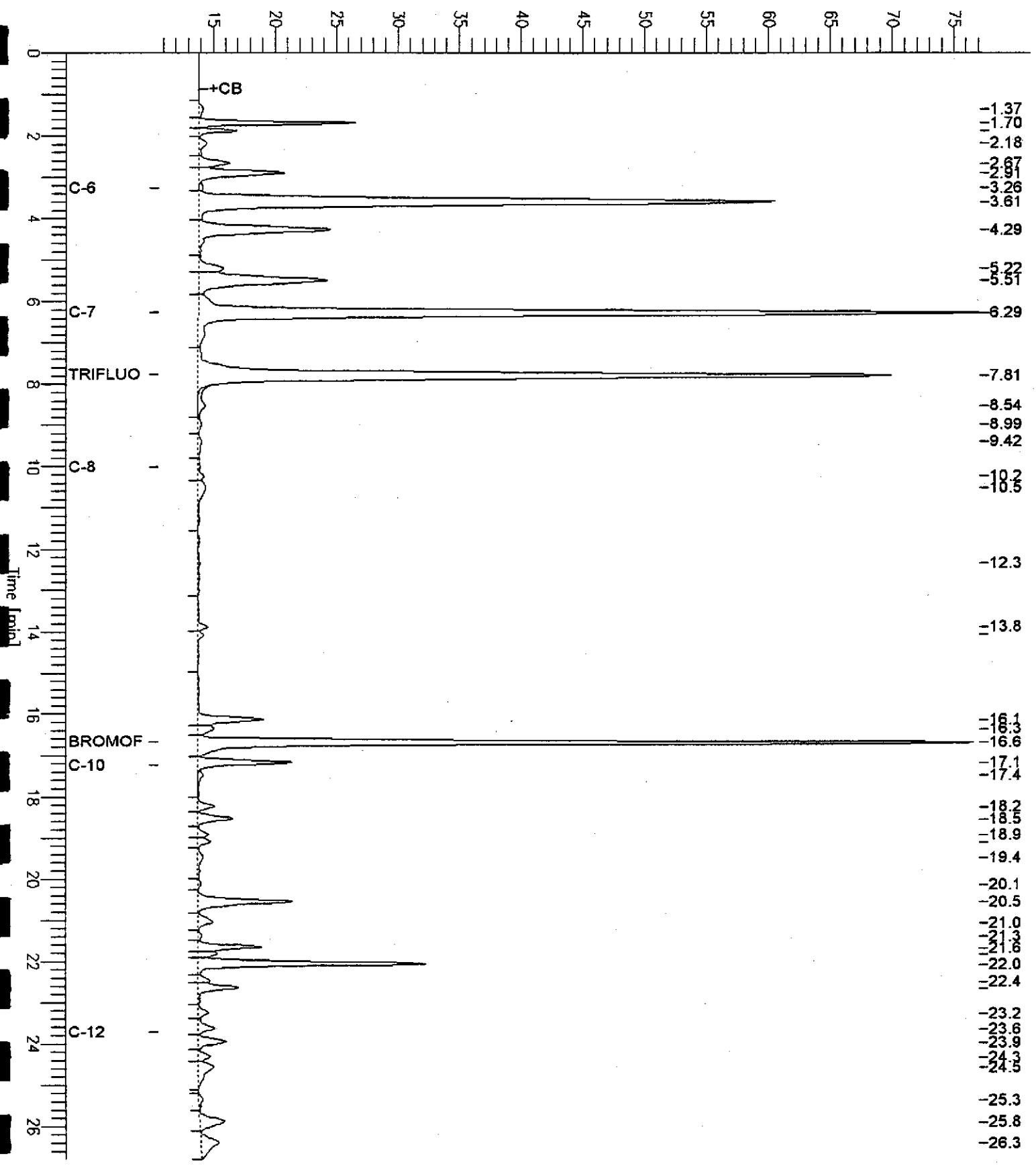


GC19 TVH 'X' Data File (FID)

Sample Name : 160688-008,75214
FileName : G:\GC19\DATA\256X019.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: 11 mV

Sample #: d1 Page 1 of 1
Date : 9/14/02 02:45 AM
Time of Injection: 9/14/02 02:18 AM
Low Point : 10.59 mV High Point : 77.13 mV
Plot Scale: 66.5 mV

MW-11



Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B(M)
Matrix:	Water	Sampled:	09/11/02
Units:	ug/L	Received:	09/11/02

Field ID:	MW-12	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	75228
Lab ID:	160688-009	Analyzed:	09/14/02

Analyte	Result	RL
Gasoline C7-C12	89 Y Z	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	68-145
Bromofluorobenzene (FID)	117	66-143

Field ID:	MW-13	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	75267
Lab ID:	160688-010	Analyzed:	09/16/02

Analyte	Result	RL
Gasoline C7-C12	4,500	100

Surrogate	%REC	Limits
Trifluorotoluene (FID)	134	68-145
Bromofluorobenzene (FID)	96	66-143

Type:	BLANK	Batch#:	75214
Lab ID:	QC189692	Analyzed:	09/13/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	68-145
Bromofluorobenzene (FID)	83	66-143

Type:	BLANK	Batch#:	75228
Lab ID:	QC189746	Analyzed:	09/14/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	68-145
Bromofluorobenzene (FID)	104	66-143

Y= Sample exhibits fuel pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Matrix:	Water	Sampled:	09/11/02
Units:	ug/L	Received:	09/11/02

Field ID:	MW-13	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	75267
Lab ID:	160688-010	Analyzed:	09/16/02

Analyte	Result	RL
Benzene	58	1.0
Toluene	7.5	1.0
Ethylbenzene	150	1.0
m,p-Xylenes	14	1.0
o-Xylene	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (PID)	97	53-143
Bromofluorobenzene (PID)	82	52-142

Type:	BLANK	Batch#:	75214
Lab ID:	QC189692	Analyzed:	09/13/02
Diln Fac:	1.000		

Analyte	Result	RL
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	53-143
Bromofluorobenzene (PID)	76	52-142

Type:	BLANK	Batch#:	75228
Lab ID:	QC189746	Analyzed:	09/14/02
Diln Fac:	1.000		

Analyte	Result	RL
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	0.51	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	81	53-143
Bromofluorobenzene (PID)	85	52-142

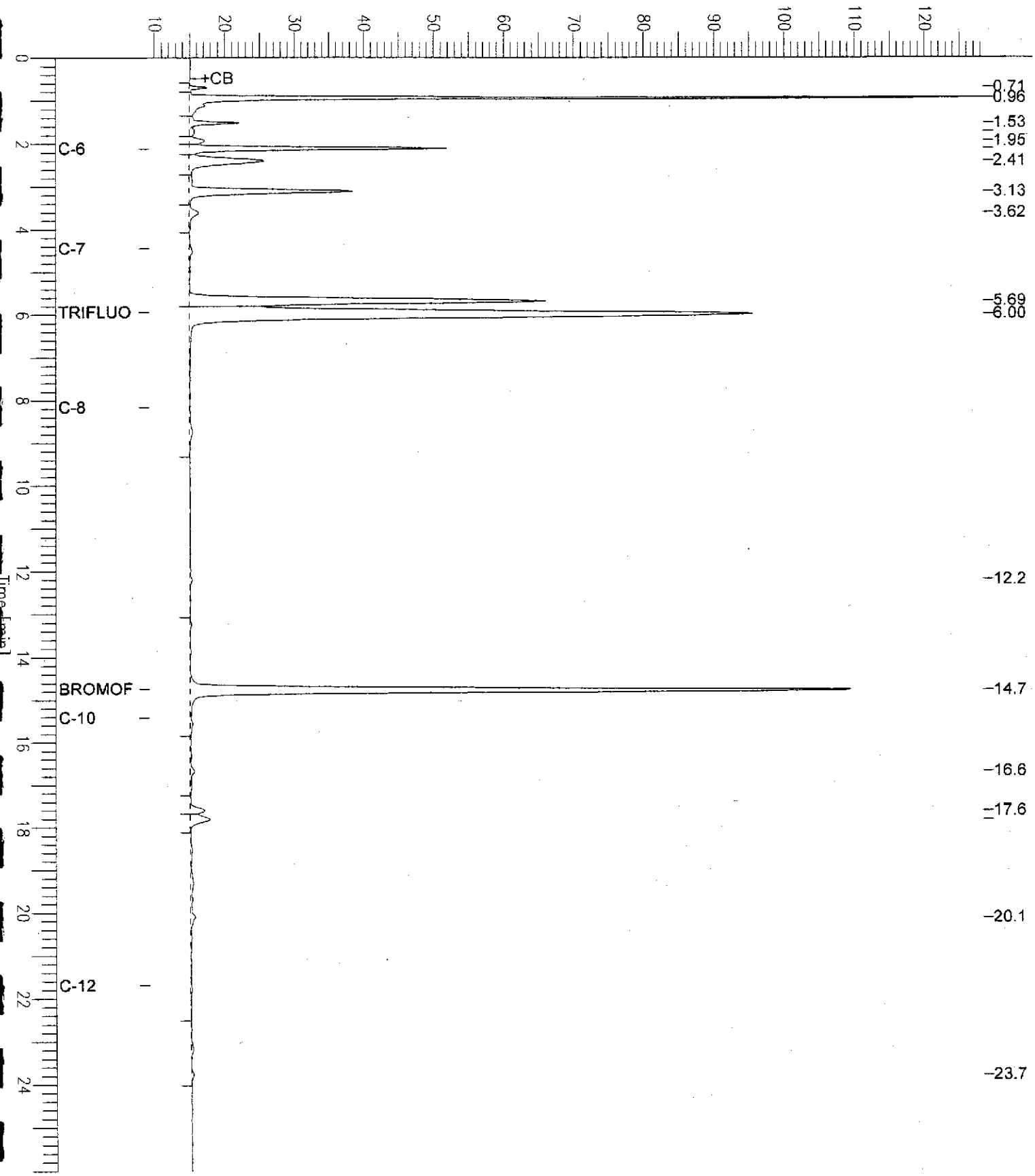
ND= Not Detected
RL= Reporting Limit

GC07 TVH 'A' Data File RTX 502

Sample Name : mss,160688-009,75228
FileName : G:\GC07\DATA\257A005.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: 9 mV

Sample #: c1 HS Page 1 of 1
Date : 9/14/02 04:53 PM
Time of Injection: 9/14/02 04:27 PM
Low Point : 9.24 mV High Point : 128.33 mV
Plot Scale: 119.1 mV

MW-12

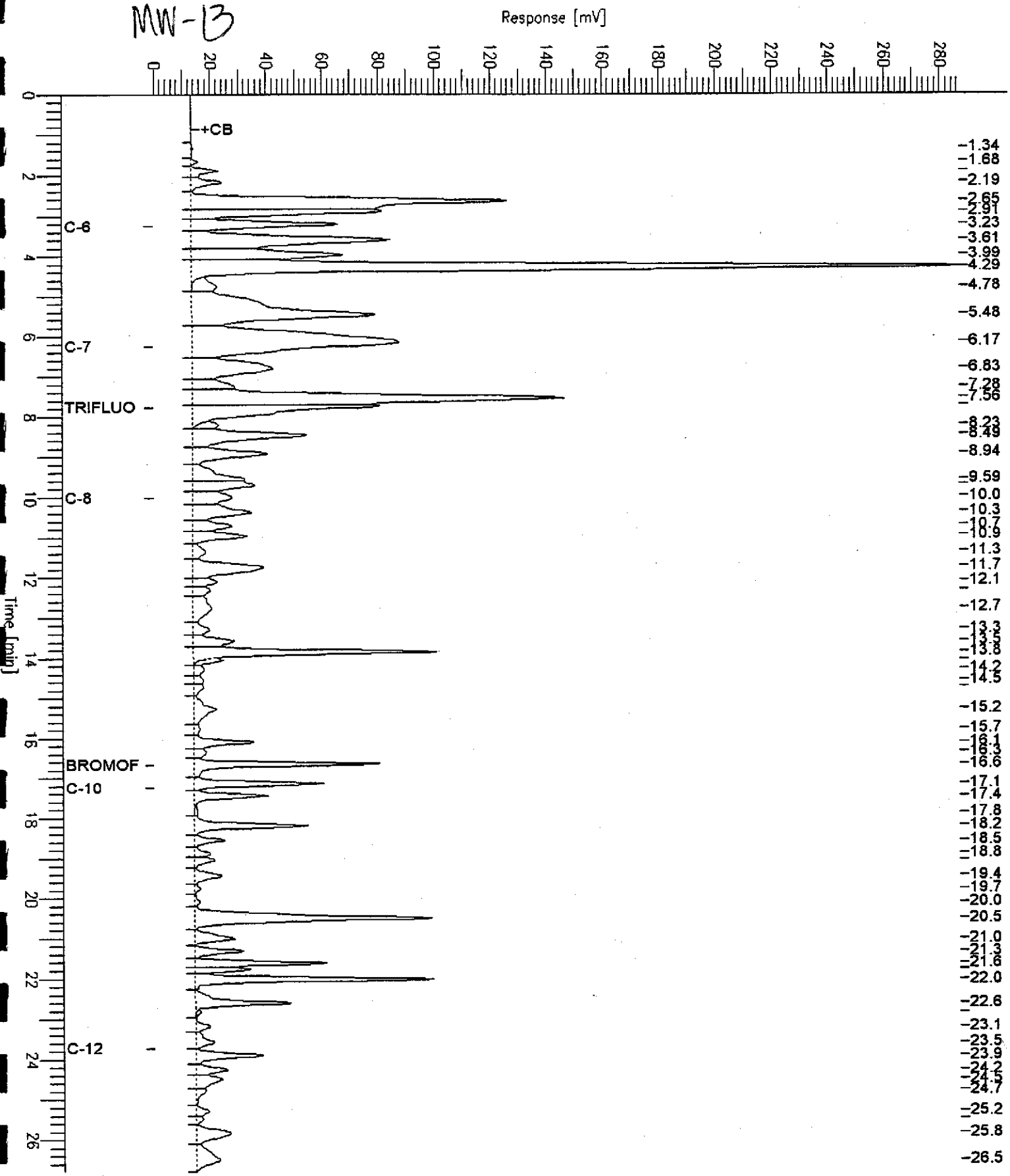


GC19 TVH 'X' Data File (FID)

Sample Name : 160688-010,75267
FileName : G:\GC19\DATA\259X008.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: -0 mV

Sample #: D1HS Page 1 of 1
Date : 9/16/02 07:20 PM
Time of Injection: 9/16/02 06:53 PM
Low Point : -0.45 mV High Point : 286.67 mV
Plot Scale: 287.1 mV

MW-13

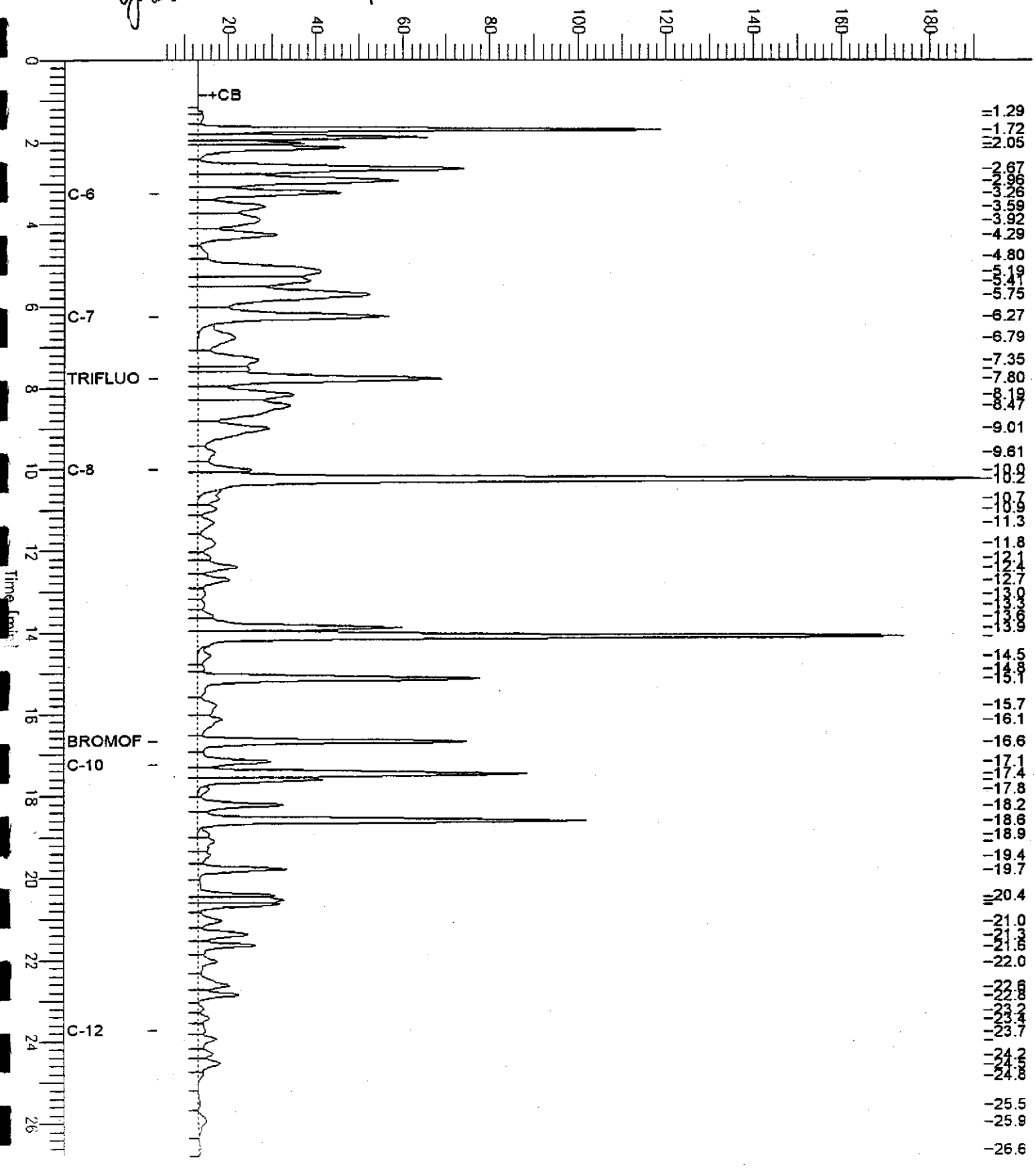


GC19 TVH 'X' Data File (FID)

Sample Name : CCV/LCS,QC189693,75214,02WS1468,5/5000
FileName : G:\GC19\DATA\256X002.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: 4 mV

Sample #: Page 1 of 1
Date : 9/13/02 03:56 PM
Time of Injection: 9/13/02 03:29 PM
Low Point : 4.12 mV High Point : 191.94 mV
Plot Scale: 187.8 mV

Gasoline Standard



Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B(M)
Matrix:	Water	Sampled:	09/11/02
Units:	ug/L	Received:	09/11/02

Type:	BLANK	Batch#:	75267
Lab ID:	QC189892	Analyzed:	09/16/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	68-145
Bromofluorobenzene (FID)	85	66-143

Y= Sample exhibits fuel pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Matrix:	Water	Sampled:	09/11/02
Units:	ug/L	Received:	09/11/02

Type:	BLANK	Batch#:	75267
Lab ID:	QC189892	Analyzed:	09/16/02
Diln Fac:	1.000		

Analyte	Result	RL
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	53-143
Bromofluorobenzene (PID)	79	52-142

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B(M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC189693	Batch#:	75214
Matrix:	Water	Analyzed:	09/13/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,849	92	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	68-145
Bromofluorobenzene (FID)	84	66-143

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Type:	BS	Diln Fac:	1.000
Lab ID:	QC189694	Batch#:	75214
Matrix:	Water	Analyzed:	09/13/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	19.42	97	65-122
Toluene	20.00	19.08	95	67-121
Ethylbenzene	20.00	19.29	96	70-121
m,p-Xylenes	40.00	36.70	92	72-125
o-Xylene	20.00	19.80	99	73-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	88	53-143
Bromofluorobenzene (PID)	79	52-142

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Type:	BSD	Diln Fac:	1.000
Lab ID:	QC189707	Batch#:	75214
Matrix:	Water	Analyzed:	09/13/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	18.86	94	65-122	3	20
Toluene	20.00	18.59	93	67-121	3	20
Ethylbenzene	20.00	19.08	95	70-121	1	20
m,p-Xylenes	40.00	36.36	91	72-125	1	20
o-Xylene	20.00	21.34	107	73-122	7	20

Surrogate	%REC	Limits
Trifluorotoluene (PID)	88	53-143
Bromofluorobenzene (PID)	81	52-142

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B(M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC189747	Batch#:	75228
Matrix:	Water	Analyzed:	09/14/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,133	107	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	68-145
Bromofluorobenzene (FID)	106	66-143

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC189748	Batch#:	75228
Matrix:	Water	Analyzed:	09/14/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	19.60	98	65-122
Toluene	20.00	20.38	102	67-121
Ethylbenzene	20.00	20.57	103	70-121
m,p-Xylenes	40.00	38.72	97	72-125
o-Xylene	20.00	21.02	105	73-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	81	53-143
Bromofluorobenzene (PID)	84	52-142

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B(M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC189895	Batch#:	75267
Matrix:	Water	Analyzed:	09/16/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,989	99	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	68-145
Bromofluorobenzene (FID)	93	66-143

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Matrix:	Water	Batch#:	75267
Units:	ug/L	Analyzed:	09/16/02
Diln Fac:	1.000		

Type: BS Lab ID: QC189893

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	20.03	100	65-122
Toluene	20.00	18.87	94	67-121
Ethylbenzene	20.00	18.26	91	70-121
m,p-Xylenes	40.00	35.12	88	72-125
o-Xylene	20.00	19.82	99	73-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	87	53-143
Bromofluorobenzene (PID)	81	52-142

Type: BSD Lab ID: QC189894

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	30.00	30.03	100	65-122	0	20
Toluene	30.00	28.20	94	67-121	0	20
Ethylbenzene	30.00	27.78	93	70-121	1	20
m,p-Xylenes	60.00	52.19	87	72-125	1	20
o-Xylene	30.00	28.84	96	73-122	3	20

Surrogate	%REC	Limits
Trifluorotoluene (PID)	85	53-143
Bromofluorobenzene (PID)	79	52-142

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B(M)
Field ID:	ZZZZZZZZZZ	Batch#:	75214
MSS Lab ID:	160709-001	Sampled:	09/11/02
Matrix:	Water	Received:	09/12/02
Units:	ug/L	Analyzed:	09/14/02
Diln Fac:	1.000		

Type: MS Lab ID: QC189705

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<20.00	2,000	1,907	95	67-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	68-145
Bromofluorobenzene (FID)	90	66-143

Type: MSD Lab ID: QC189706

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,913	96	67-120	0	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	68-145
Bromofluorobenzene (FID)	90	66-143

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Field ID:	MW-12	Batch#:	75228
MSS Lab ID:	160688-009	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/14/02
Diln Fac:	1.000		

Type: MS Lab ID: QC189762

Analyte	MSS Result	Spiked	Result	%REC	Limits
Benzene	<0.04100	20.00	20.14	101	52-149
Toluene	<0.03400	20.00	20.45	102	69-130
Ethylbenzene	<0.04800	20.00	20.60	103	70-131
m,p-Xylenes	<0.04800	40.00	39.00	98	68-137
o-Xylene	<0.02100	20.00	21.58	108	73-133

Surrogate	%REC	Limits
Trifluorotoluene (PID)	86	53-143
Bromofluorobenzene (PID)	93	52-142

Type: MSD Lab ID: QC189763

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	19.79	99	52-149	2	30
Toluene	20.00	19.99	100	69-130	2	30
Ethylbenzene	20.00	20.10	101	70-131	2	30
m,p-Xylenes	40.00	37.73	94	68-137	3	30
o-Xylene	20.00	21.05	105	73-133	2	30

Surrogate	%REC	Limits
Trifluorotoluene (PID)	85	53-143
Bromofluorobenzene (PID)	91	52-142

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-01	Batch#:	75200
Lab ID:	160688-001	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	8.333		

Analyte	Result	RL
Chloromethane	ND	8.3
Vinyl Chloride	ND	4.2
Bromomethane	ND	8.3
Chloroethane	ND	8.3
Trichlorofluoromethane	ND	8.3
Freon 113	ND	8.3
1,1-Dichloroethene	ND	4.2
Methylene Chloride	ND	170
trans-1,2-Dichloroethene	ND	4.2
1,1-Dichloroethane	ND	4.2
cis-1,2-Dichloroethene	ND	4.2
Chloroform	ND	8.3
1,1,1-Trichloroethane	ND	4.2
Carbon Tetrachloride	ND	4.2
1,2-Dichloroethane	ND	4.2
Trichloroethene	ND	4.2
1,2-Dichloropropane	ND	4.2
Bromodichloromethane	ND	4.2
cis-1,3-Dichloropropene	ND	4.2
trans-1,3-Dichloropropene	ND	4.2
1,1,2-Trichloroethane	ND	4.2
Tetrachloroethene	ND	4.2
Dibromochloromethane	ND	4.2
Chlorobenzene	ND	4.2
Bromoform	ND	4.2
1,1,2,2-Tetrachloroethane	ND	4.2
1,3-Dichlorobenzene	ND	4.2
1,4-Dichlorobenzene	ND	4.2
1,2-Dichlorobenzene	ND	4.2

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	77-130
Toluene-d8	104	80-120
Bromofluorobenzene	97	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-02	Batch#:	75200
Lab ID:	160688-002	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	12.50		

Analyte	Result	RL
Chloromethane	ND	13
Vinyl Chloride	ND	6.3
Bromomethane	ND	13
Chloroethane	ND	13
Trichlorofluoromethane	ND	13
Freon 113	ND	13
1,1-Dichloroethene	ND	6.3
Methylene Chloride	ND	250
trans-1,2-Dichloroethene	ND	6.3
1,1-Dichloroethane	ND	6.3
cis-1,2-Dichloroethene	ND	6.3
Chloroform	ND	13
1,1,1-Trichloroethane	ND	6.3
Carbon Tetrachloride	ND	6.3
1,2-Dichloroethane	10	6.3
Trichloroethene	ND	6.3
1,2-Dichloropropane	ND	6.3
Bromodichloromethane	ND	6.3
cis-1,3-Dichloropropene	ND	6.3
trans-1,3-Dichloropropene	ND	6.3
1,1,2-Trichloroethane	ND	6.3
Tetrachloroethene	ND	6.3
Dibromochloromethane	ND	6.3
Chlorobenzene	ND	6.3
Bromoform	ND	6.3
1,1,2,2-Tetrachloroethane	ND	6.3
1,3-Dichlorobenzene	ND	6.3
1,4-Dichlorobenzene	ND	6.3
1,2-Dichlorobenzene	ND	6.3

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	88	77-130
Toluene-d8	99	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-06	Batch#:	75200
Lab ID:	160688-003	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	0.9	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	77-130
Toluene-d8	102	80-120
Bromofluorobenzene	111	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-07	Batch#:	75200
Lab ID:	160688-004	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	77-130
Toluene-d8	104	80-120
Bromofluorobenzene	114	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-08	Batch#:	75200
Lab ID:	160688-005	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	7.143		

Analyte	Result	RL
Chloromethane	ND	7.1
Vinyl Chloride	91	3.6
Bromomethane	ND	7.1
Chloroethane	ND	7.1
Trichlorofluoromethane	ND	7.1
Freon 113	ND	7.1
1,1-Dichloroethene	ND	3.6
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	60	3.6
1,1-Dichloroethane	ND	3.6
cis-1,2-Dichloroethene	1,000	3.6
Chloroform	ND	7.1
1,1,1-Trichloroethane	ND	3.6
Carbon Tetrachloride	ND	3.6
1,2-Dichloroethane	ND	3.6
Trichloroethene	17	3.6
1,2-Dichloropropane	ND	3.6
Bromodichloromethane	ND	3.6
cis-1,3-Dichloropropene	ND	3.6
trans-1,3-Dichloropropene	ND	3.6
1,1,2-Trichloroethane	ND	3.6
Tetrachloroethene	ND	3.6
Dibromochloromethane	ND	3.6
Chlorobenzene	ND	3.6
Bromoform	ND	3.6
1,1,2,2-Tetrachloroethane	ND	3.6
1,3-Dichlorobenzene	ND	3.6
1,4-Dichlorobenzene	ND	3.6
1,2-Dichlorobenzene	ND	3.6

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	105	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-09	Batch#:	75205
Lab ID:	160688-006	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	20.00		

Analyte	Result	RL
Chloromethane	ND	20
Vinyl Chloride	ND	10
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	20
Freon 113	ND	20
1,1-Dichloroethene	ND	10
Methylene Chloride	ND	400
trans-1,2-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
cis-1,2-Dichloroethene	ND	10
Chloroform	ND	20
1,1,1-Trichloroethane	ND	10
Carbon Tetrachloride	ND	10
1,2-Dichloroethane	18	10
Trichloroethene	ND	10
1,2-Dichloropropane	ND	10
Bromodichloromethane	ND	10
cis-1,3-Dichloropropene	ND	10
trans-1,3-Dichloropropene	ND	10
1,1,2-Trichloroethane	ND	10
Tetrachloroethene	ND	10
Dibromochloromethane	ND	10
Chlorobenzene	ND	10
Bromoform	ND	10
1,1,2,2-Tetrachloroethane	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	105	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-10	Batch#:	75205
Lab ID:	160688-007	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	106	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-11	Batch#:	75205
Lab ID:	160688-008	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	0.6	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	107	80-120

ND= Not Detected
RL= Reporting Limit

8.0

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-12	Batch#:	75161
Lab ID:	160688-009	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	0.9	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	51	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	46	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	180	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	77-130
Toluene-d8	99	80-120
Bromofluorobenzene	119	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-13	Batch#:	75205
Lab ID:	160688-010	Sampled:	09/11/02
Matrix:	Water	Received:	09/11/02
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	2.500		

Analyte	Result	RL
Chloromethane	ND	2.5
Vinyl Chloride	ND	1.3
Bromomethane	ND	2.5
Chloroethane	ND	2.5
Trichlorofluoromethane	ND	2.5
Freon 113	ND	2.5
1,1-Dichloroethene	5.2	1.3
Methylene Chloride	ND	50
trans-1,2-Dichloroethene	13	1.3
1,1-Dichloroethane	ND	1.3
cis-1,2-Dichloroethene	410	1.3
Chloroform	ND	2.5
1,1,1-Trichloroethane	ND	1.3
Carbon Tetrachloride	ND	1.3
1,2-Dichloroethane	ND	1.3
Trichloroethene	63	1.3
1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3
cis-1,3-Dichloropropene	ND	1.3
trans-1,3-Dichloropropene	ND	1.3
1,1,2-Trichloroethane	ND	1.3
Tetrachloroethene	ND	1.3
Dibromochloromethane	ND	1.3
Chlorobenzene	ND	1.3
Bromoform	ND	1.3
1,1,2,2-Tetrachloroethane	ND	1.3
1,3-Dichlorobenzene	ND	1.3
1,4-Dichlorobenzene	ND	1.3
1,2-Dichlorobenzene	ND	1.3

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC189469	Batch#:	75161
Matrix:	Water	Analyzed:	09/12/02
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	114	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC189634	Batch#:	75200
Matrix:	Water	Analyzed:	09/13/02
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	117	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC189656	Batch#:	75205
Matrix:	Water	Analyzed:	09/13/02
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC189657	Batch#:	75205
Matrix:	Water	Analyzed:	09/13/02
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	108	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	75161
Units:	ug/L	Analyzed:	09/12/02
Diln Fac:	1.000		

Type: BS Lab ID: QC189466

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	52.38	105	71-131
Trichloroethene	50.00	48.24	96	78-120
Chlorobenzene	50.00	48.36	97	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	77-130
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC189467

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	56.30	113	71-131	7	20
Trichloroethene	50.00	51.06	102	78-120	6	20
Chlorobenzene	50.00	51.75	104	80-120	7	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	77-130
Toluene-d8	104	80-120
Bromofluorobenzene	98	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	75200
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	1.000		

Type: BS Lab ID: QC189632

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	55.64	111	71-131
Trichloroethene	50.00	50.55	101	78-120
Chlorobenzene	50.00	50.52	101	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC189633

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	54.43	109	71-131	2	20
Trichloroethene	50.00	49.47	99	78-120	2	20
Chlorobenzene	50.00	49.76	100	80-120	2	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	160688	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	75205
Units:	ug/L	Analyzed:	09/13/02
Diln Fac:	1.000		

Type: BS Lab ID: QC189654

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	58.35	117	71-131
Trichloroethene	50.00	56.22	112	78-120
Chlorobenzene	50.00	52.33	105	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	77-130
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-120

Type: BSD Lab ID: QC189655

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	56.16	112	71-131	4	20
Trichloroethene	50.00	54.04	108	78-120	4	20
Chlorobenzene	50.00	50.70	101	80-120	3	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-120

PD= Relative Percent Difference

Clayton GROUP SERVICES

CHAIN OF CUSTODY

160688

Lab: Curtis&Tompkins

TAT: Standard

Report results to:

Name	Warren Chamberlain
Company	Clayton Group Services
Mailing Address	6920 Koll Center Parkway, Ste. 216
City, State, Zip	Pleasanton, California 94566
Telephone No.	(925) 426-2600
Fax No.	(925) 426-0106
E-mail:	wchamberlain@claytongrp.com

Project Information

Project No.	70-97066.00
Name	Sausage Factory
Location	630 29th Avenue, Oakland
Global_Id	T0600102114
Log_code	CGSP

Special instructions and/or specific regulatory requirements:

Analyses Requested

Sample Identification	Sample Date	Sample Time	Matrix/ Media	No. of Containers	TPH as Gasoline/BTEX 8021B 8010MS	Sample Condition/Comments	Preservative
MW-01 02Q3	11-Sep-02	13:10	L	6	X X		HCl
MW-02 02Q3	11-Sep-02	14:00	L	6	X X		HCl
MW-06 02Q3	11-Sep-02	11:50	L	6	X X	Preservation Correct? ☑ Yes ☐ No ☐ N/A	HCl
MW-07 02Q3	11-Sep-02	11:45	L	6	X X		HCl
MW-08 02Q3	11-Sep-02	13:50	L	6	X X		HCl
MW-09 02Q3	11-Sep-02	14:38	L	6	X X		HCl
MW-10 02Q3	11-Sep-02	12:15	L	6	X X	Received ☒ On Ice ☑ Cold ☐ Ambient ☐ Intact	HCl
MW-11 02Q3	11-Sep-02	10:50	L	6	X X		HCl
MW-12 02Q3	11-Sep-02	10:22	L	6	X X		HCl
MW-13 02Q3	11-Sep-02	9:45	L	6	X X		HCl

Collected by:	Mike Krzemnicki	**Date/Time**	9/11 15:00	**Collector's Signature:**	**Date/Time** 9/11 15:00
Relinquished by:		**Date/Time**	9/11 15:00	**Received by:**	**Date/Time** 9/11/02 3:00
Relinquished by:		**Date/Time**		**Received by:**	**Date/Time**
Method of Shipment:				**Sample Condition on Rcpt:**	