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Clayton GROUP SERVICES

RO 334

MAY 01 2002

April 26, 2002

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: First 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 First 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 me at (925) 426-2665.

Sincerely,

Marc Mullaney
Project Geologist
Environmental Services

Jon A. Rosso, P.E. for
Director

MRM/wbc

cc: Donna Profitt — Bank of America
Rita Repko — Clayton

Clayton GROUP SERVICES

MAY 01 2002

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

Clayton Project No. 70-97066.00

April 26, 2002

CONTENTS

CONTENTS

1. INTRODUCTION

Clayton Group Services, Inc., (Clayton) has prepared this quarterly groundwater monitoring report to document the results of the First 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 First 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 March 25, 2002. Groundwater samples were collected from eight monitoring wells (MW-1, MW-2, MW-6, MW-7, MW-8, MW-9, MW-10, and MW-11).

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 March 25, 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 six monitoring wells (MW-6 through MW-11) 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 Fourth Quarter 2001 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 Fourth Quarter 2001 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 First Quarter 2002 monitoring event, the groundwater gradient was determined to be 0.02 feet per foot (ft/ft) towards the west.

Historical depth to water measurements and groundwater elevation data are presented on Table 1. The First 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 7 of 8 samples tested, and ranged in concentration from 51 micrograms per liter (µg/L) to 71,000 µg/L.
- Benzene was detected in 8 of 8 samples tested, and ranged in concentration from 0.56 µg/L to 15,000 µg/L.
- Toluene was detected in 8 of 8 samples tested, and ranged in concentration from 0.75 µg/L to 17,000 µg/L.
- Ethylbenzene was detected in 7 of 8 samples tested, and ranged in concentration from 0.57 µg/L to 1,900 µg/L.
- Total Xylenes was detected in 4 of 8 samples tested, and ranged in concentration from 0.69 µg/L to 8,000 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 First Quarter 2002 monitoring event are presented in Figures 3a and 3b, respectively.

4.3. HALOGENATED VOLATILE ORGANIC COMPOUNDS

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

- 1,2-Dichloroethane (1,2-DCA) was detected in 1 of 8 samples tested at 3.6 µg/L.
- Trichloroethene (TCE) was detected in 1 of 8 samples tested, at 10 µg/L.
- Cis 1,2-Dichloroethene (cis 1,2-DCE) was detected in 1 of 8 samples tested, at 790 µg/L.
- Trans 1,2-Dichloroethene (trans 1,2-DCE) was detected in 1 of 8 samples tested, at 33 µg/L.
- Vinyl Chloride (VC) was detected in 1 of 8 samples tested, at 49 µg/L.

5. CONCLUSION

The groundwater gradient determined for the Fourth Quarter 2001 monitoring event was found to be 0.02 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-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 well MW-8.

Sincerely,

Marc Mullaney
Project Geologist
Environmental Services

Jon A. Rosso, P.E.
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	3/25/2002	16.69	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	3/25/2002	20.79	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	3/25/2002	16.60	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	3/25/2002	15.47	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	3/25/2002	17.58	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	3/25/2002	17.61	4.98	12.63
	12/3/2001		5.79	11.82
MW-10	3/25/2002	16.92	3.00	13.92
	12/3/2001		4.22	12.70
MW-11	3/25/2002	14.87	4.68	10.19
	12/3/2001		5.67	9.20

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	Ethyl benzene	Toluene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-1	3/25/2002	11,000	NA	3,200	73	1,200	1,860	<5	<5	<5	<5	<5
	12/3/2001	15,000	NA	2,800	310	1,200	1,660	<3.1	<3.1	<3.1	<3.1	<3.1
	9/26/2001	16,000	NA	1,100	< 10	130	320	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
	6/21/2001	12,000	NA	2,000	180	880	1,180	3.0	<0.5	<0.5	<0.5	<0.5
	3/21/2000	21,000	NA	3,200	290	1,700	2,600	<2.5	<2.5	<2.5	<2.5	<2.5
	12/19/2000	25,000	NA	3,200	480	1,900	3,300	<2.5	<2.5	<2.5	<2.5	<2.5
	9/22/2000	25,000	<500	3,100	470	1,800	3,600	NA	NA	NA	NA	NA
	6/15/2000	29,000	NA	3,900	1,900	<100	4,200	<5.0	<5.0	<5.0	<5.0	<5.0
	2/8/1999	48,000	NA	3,900	970	6,300	4,300	<30	NA	NA	NA	NA
MW-2	3/25/2002	21,000	NA	11,000	1,000	3,700	2,790	<17	<17	<17	<17	<17
	12/3/2001	45,000	NA	13,000	950	5,100	2,930	14	<7.1	<7.1	<7.1	<7.1
	9/26/2001	26,000	NA	12,000	590	3,900	1,960	11	< 10	< 10	< 10	< 10
	6/21/2001	30,000	NA	8,600	440	2,600	1,230	5.6	<0.5	<0.5	<0.5	<0.5
	3/23/2001	34,000	NA	10,000	410	3,200	1,220	14	<13	<13	<13	<13
	12/19/2000	43,000	NA	9,800	810	4,000	2,430	21	<13	<13	<13	<13
	9/22/2000	24,000	<500	10,000	370	2,700	1,200	NA	NA	NA	NA	NA
	6/29/2000	31,000	NA	11,000	4,400	930	250	25	<5.0	<5.0	<5.0	<5.0
	2/8/1999	41,000	NA	11,000	650	4,900	1,720	60	NA	NA	NA	NA
MW-3	Removed from sampling program in October 2001											
	9/26/2001	59,000	NA	12,000	780	13,000	3,680	990	< 8.3	< 8.3	< 8.3	< 8.3
	6/21/2001	34,000	NA	5,900	340	6,200	1,550	120	2.4	0.8	<0.5	<0.5
	3/22/2001	1,300	NA	98	51	67	104	2.3	<0.5	<0.5	<0.5	<0.5
	12/19/2000	50,000	NA	1,200	510	1,600	1,810	350	<8.3	<8.3	<8.3	<8.3
	9/22/2000	83,000	<1,000	16,000	1,300	20,000	7,000	NA	NA	NA	NA	NA
	6/29/2000	39,000	NA	7,800	8,000	630	3,400	600	<5.0	<5.0	<5.0	<5.0
	2/8/1999	35,000	NA	1,200	1,400	3,400	4,900	<30	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	Ethyl benzene	Toluene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-4	Removed from sampling program in October 2001											
	9/26/2001	17,000	NA	7,900	440	< 50	581	1.9	< 0.5	8.1	< 0.5	< 0.5
	6/21/2001	11,000	NA	2,300	570	26	641	1.4	<0.5	3.3	<0.5	<0.5
	3/22/2001	5,600	NA	1,100	310	13	303	<0.5	<0.5	1.6	<0.5	<0.5
	12/19/2000	2,200	NA	200	100	2.9	81.4	<0.5	<0.5	<0.5	<0.5	<0.5
	9/22/2000	12,000	<500	2,800	1,100	82	1,300	NA	NA	NA	NA	NA
	6/15/2000	2,300	NA	230	10	<5	94	0.88	<0.5	2.1	<0.5	<0.5
	2/8/1999	15,000	NA	670	780	90	940	<30	NA	NA	NA	NA
MW-5	Removed from sampling program in October 2001											
	9/26/2001	5,100	NA	2,400	< 10	1,200	460	22	< 3.6	< 3.6	< 3.6	< 3.6
	6/21/2001	18,000	NA	3,400	350	2,300	1,020	21	<0.5*[3]	<0.5	<0.5	<0.5
	3/22/2001	6,200	NA	1,500	310	360	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	420	3,100	1,600	NA	NA	NA	NA	NA
	6/29/2000	3,900	NA	1,500	330	28	260	36	<0.5	<0.5	<0.5	<0.5
	2/8/1999	4,900	NA	780	230	440	370	<0.5	<0.5	<0.5	<0.5	<0.5
MW-6	3/25/2002	1,200	NA	22	5.7	8	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	0.59	<0.5	1.00	0.9	<0.5	<0.5	<0.5	<0.5
	3/21/2001	820	NA	<0.5	1.4	<0.5	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	2.1	2.2	4.8	0.78	<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	Ethyl benzene	Toluene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-7	3/25/2002	<50	NA	0.56	<0.5	0.75	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
MW-8	3/25/2002	990	NA	280	1.4	7.2	6.8	3.6	10	790	33	49
	12/3/2001	1,200	NA	190	2.7	14	11.3	<2.5	100	650	44	31
	9/25/2001	1,500	NA	170	1.6	4.3	2.7	5.0	36	820	59	53
	6/21/2001	2,400	NA	490	29	<2.5	<2.5	4.9	28	910	48	75
	3/21/2001	3,500	NA	530	21	<2.5	<2.5	<3.6	32	760	39	58
	12/19/2000	2,700	NA	410	4.8	<2.5	<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	8.9	<5	8.7	<13	210	1,100	73	25
MW-9	3/25/2002	71,000	NA	15,000	1,900	17,000	8,000	<31	<31	<31	<31	<31
	12/3/2001	90,000	NA	15,000	2,200	15,000	9,100	<10	<10	<10	<10	<10
MW-10	3/25/2002	51	NA	2.5	0.53	3.6	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	3/25/2002	130	NA	11	3.3	20	14.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/3/2001	1,600	NA	470	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

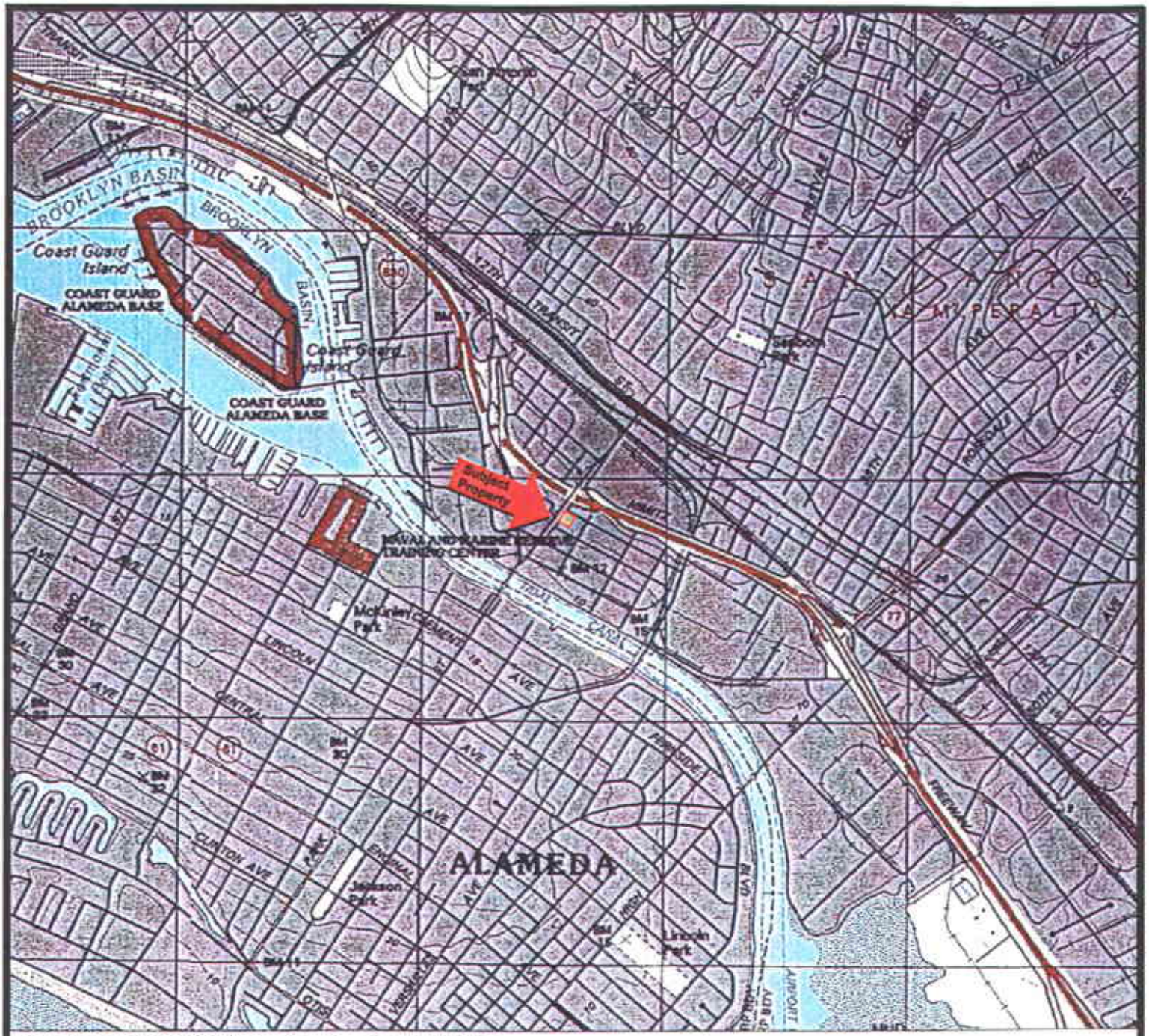
Table 2

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

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



Map Source: TOPO! © 2000 National Geographic Holdings

Note: Boundaries and Location Information is Approximate

1 2 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

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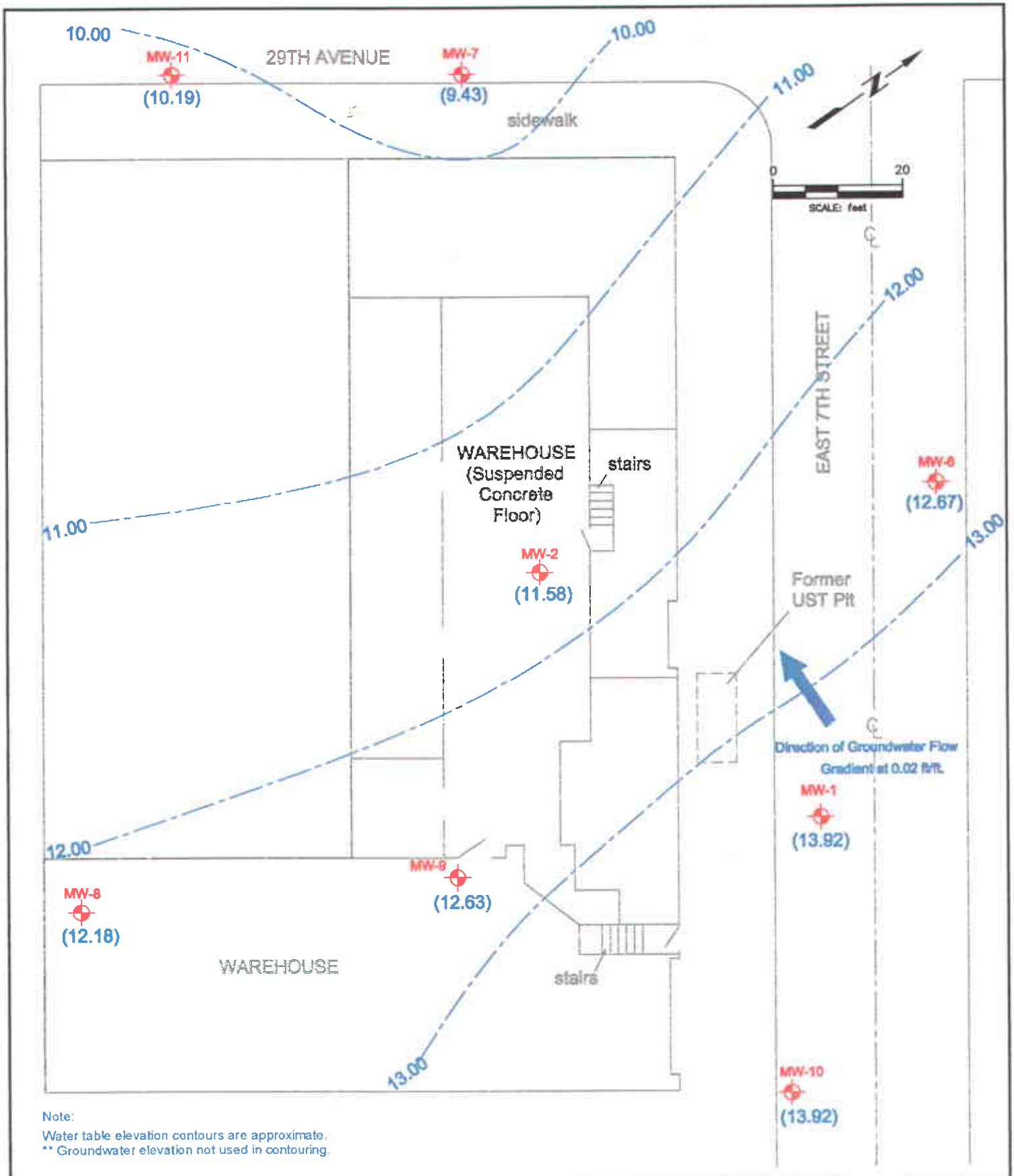
CALIF

QUADRANGLE LOCATION

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

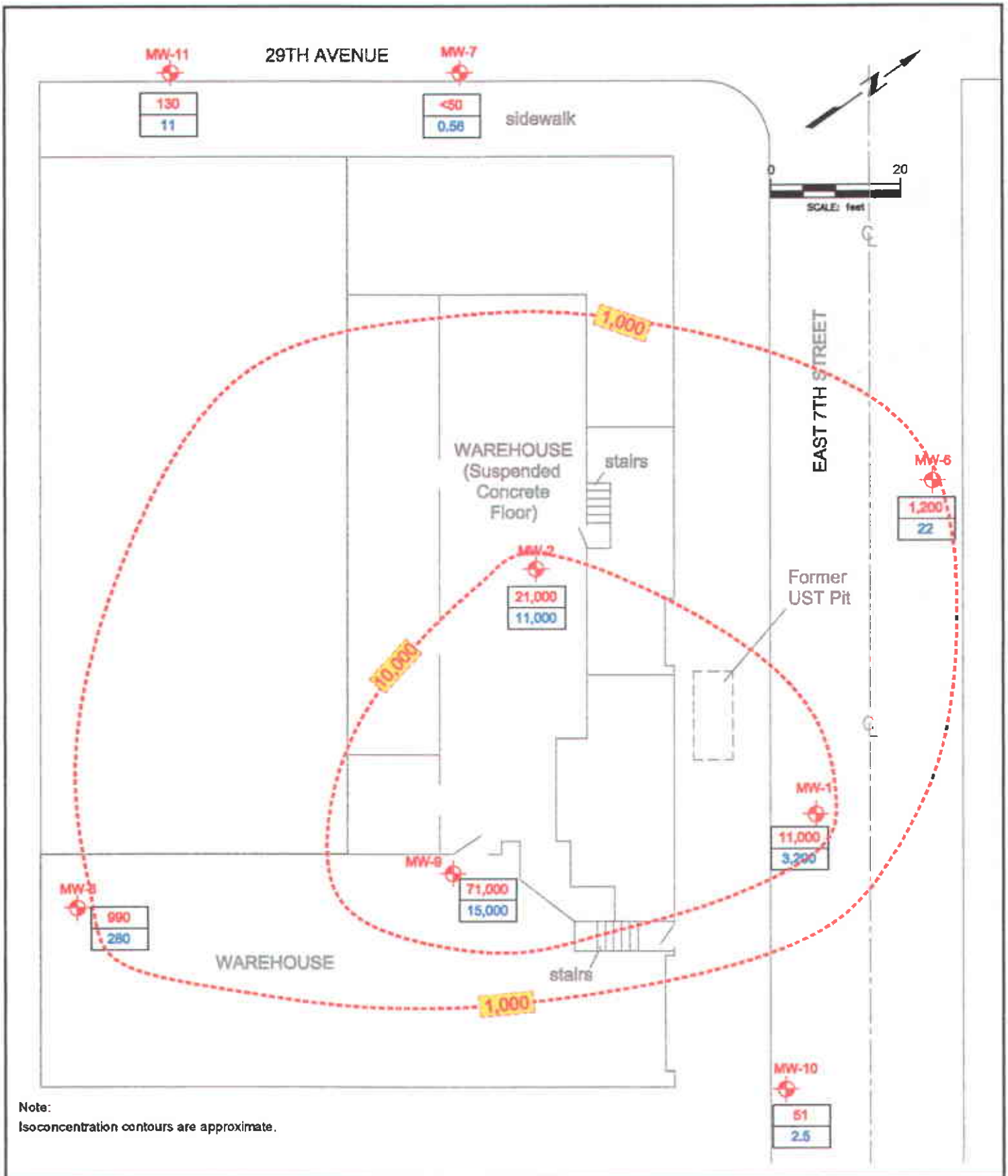
Figure 1

Clayton GROUP SERVICES



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

LEGEND	GROUNDWATER ELEVATION CONTOUR MAP (March 25, 2002)	Figure	Clayton GROUP SERVICES
MW-1 Monitoring Well Location (13.92) 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 4/23/02 Q1ST_02 DWG	



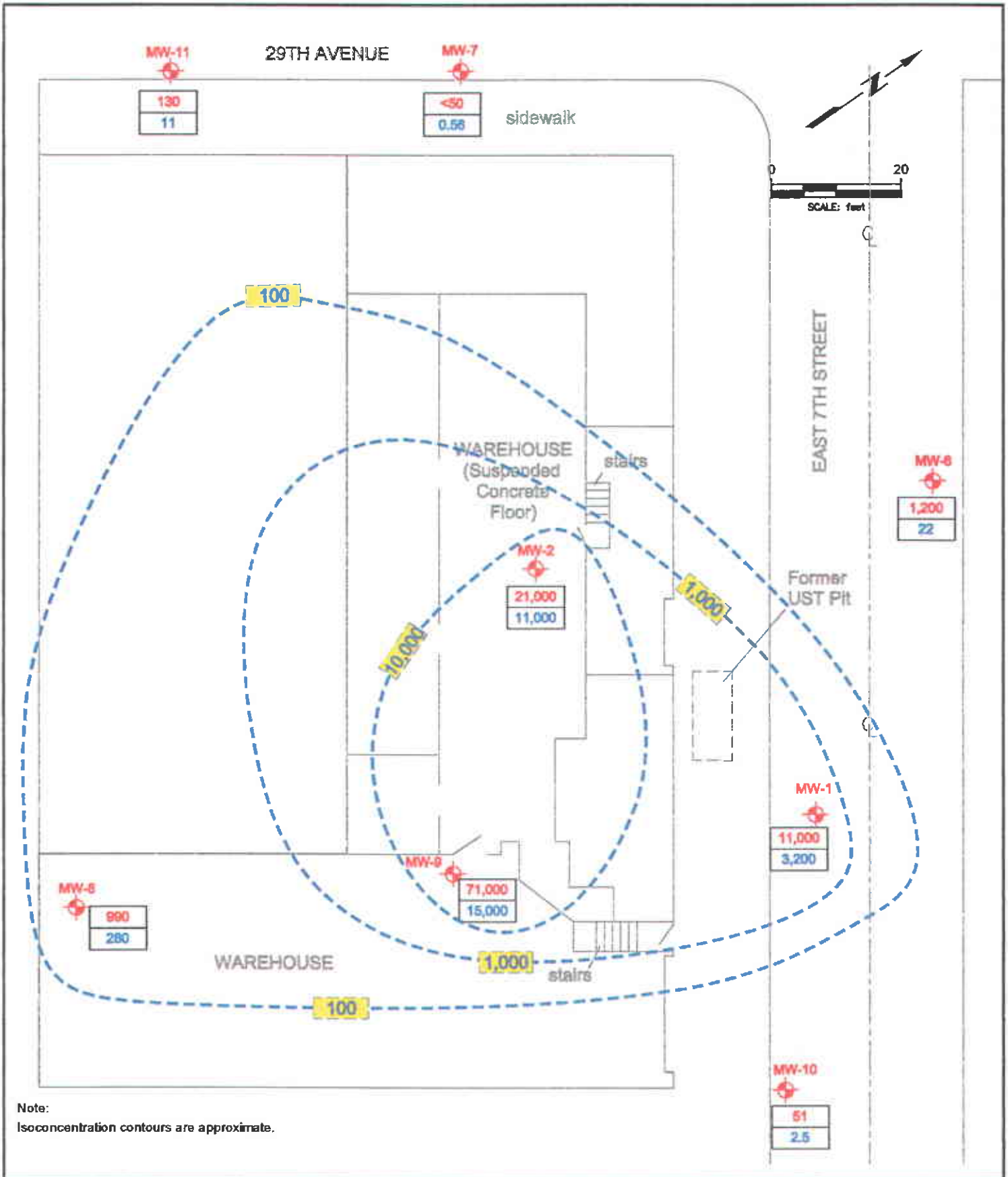
Note:
Isoconcentration contours are approximate.

LEGEND		
MW-1	Monitoring Well Location	
11,000	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
March 2002
FORMER LEMOINE SAUSAGE FACTORY
630 29TH AVENUE
OAKLAND, CALIFORNIA
Clayton Project No. 70-97066.00

Figure
3a
4/23/02
Q1ST_02.DWG

Clayton GROUP SERVICES



Note:
Isoconcentration contours are approximate.

LEGEND

MW-1 Monitoring Well Location

11,000 TPH-G Concentration (micrograms per liter)

3,200 Benzene Concentration (micrograms per liter)

1,000 Isoconcentration Contour (micrograms per liter)

BENZENE

CONCENTRATIONS IN GROUNDWATER
March 2002

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

Figure
3b
4/23/02
Q1ST_02.DWG

Clayton GROUP SERVICES

APPENDIX A

FIRST QUARTER (MARCH) 2002

GROUNDWATER SAMPLING LOGS

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory		Job #:	70-97066
	630 29th Avenue		Date Purged:	3/25/2002
	Oakland, California		Purge Method:	Peristaltic Pump
Sampling Location:	**MW-1**		Date & Time Sampled:	3/25/02 1530
Top of Casing:	16.69	(ft, msl)	Sampling Method:	Peristaltic Pump
Depth to Water:	2.77	Feet	Sample Type:	TPHG/BTEX /8010
Groundwater Elevation	13.92	(ft, msl)	Preservatives:	Ice
Well Bottom	7.69	(ft, msl)	# of Containers:	5 VOAs
Water Column:	6.23	Feet	Field Tech:	Marc Mullaney
Well Casing Volume:	0.06	gal (WC* 0.06)	Weather Conditions:	Cool, Overcast
Casing Volumes Purged:	4.01			
Purge Rate:	0.13	GPM	3/4" dia well	
80% Recovery from TOC:	9.90	ft. from TOC		

Time	Volume Removed (gal)	Temp. (°C)	CND (salinity) (PPT)	DO mg/L	ORP (mV)	Specific Conductivity (mS/cm)	pH (SU)	Turbidity (NTU)
1530	0.25	16.82	1367	0.09	124.3	1623	6.89	451.1
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Field Notes:

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory		Job #:	70-97066
	630 29th Avenue		Date Purged:	3/25/2002
	Oakland, California		Purge Method:	Peristaltic Pump
Sampling Location:	**MW-2**		Date & Time Sampled	3/25/02 1230
Top of Casing:	20.79	(ft, msl)	Sampling Method:	Peristaltic Pump
Depth to Water:	9.21	Feet	Sample Type:	TPHG/BTEX /8010
Groundwater Elevation	11.58	(ft, msl)	Preservatives:	Ice
Well Bottom	0.79	(ft, msl)	# of Containers:	5 VOAs
Water Column:	10.79	Feet	Field Tech:	Marc Mullaney
Well Casing Volume:	0.11	gal (WC* 0.01)	Weather Conditions:	Overcast, cool
Casing Volumes Purged:	2.32			
Purge Rate:	0.13	GPM	3/4" dia well	
80% Recovery from TOC:	0.21	ft. from TOC		

Time	Volume Removed (gal)	Temp. (°C)	CND (salinity) (PPT)	DO mg/L	ORP (mV)	Specific Conductivity (mS/cm)	pH (SU)	Turbidity (NTU)
1226	0.25	16.89	8813	0.13	307.4	10402	6.32	24.5
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Field Notes:

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory		Job #:	70-97066
	630 29th Avenue		Date Purged:	3/25/2002
	Oakland, California		Purge Method:	Submersible Pump
Sampling Location:	**MW-6**		Date & Time Sampled:	3/25/02 1740
Top of Casing:	16.6	(ft, msl)	Sampling Method:	Disposable Bailer
Depth to Water:	3.93	Feet	Sample Type:	TPHG/BTEX /8010
Groundwater Elevation	12.67	(ft, msl)	Preservatives:	Ice
Well Bottom	-3.40	(ft, msl)	# of Containers:	5 VOAs
Water Column:	16.07	Feet	Field Tech:	Marc Mullaney
Well Casing Volume:	2.57	gal (WC* 0.16)	Weather Conditions:	Overcast, cool
Casing Volumes Purged:	4.28			
Purge Rate:	0.55	GPM	2" dia well	
80% Recovery from TOC:	5.53	ft. from TOC		

Time	Volume Removed (gal)	Temp. (°C)	CND (salinity) (PPT)	DO mg/L	ORP (mV)	Specific Conductivity (mS/cm)	pH (SU)	Turbidity (NTU)
1445	0	18.74	1398	0.07	231.5	1600	6.78	186.7
1449	2.75	17.66	1240	0.05	260.9	1452	6.83	65.1
1455	2.75	17.80	1314	0.07	278.0	1523	6.71	26.0
1501	2.75	18.11	1256	0.08	261.7	1445	6.76	70.4*
1505	2.75	18.46	1444	0.04	275.6	1658	6.72	34.3
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Field Notes:

* = disturbed sond
Followed water elevation to bottom of well (did not pump dry)

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory		Job #:	70-97066
	630 29th Avenue		Date Purged:	3/25/2002
	Oakland, California		Purge Method:	Submersible Pump
Sampling Location:	**MW-7**		Date & Time Sampled:	3/26/02 1100
Top of Casing:	15.47	(ft, msl)	Sampling Method:	Disposable Bailer
Depth to Water:	6.04	Feet	Sample Type:	TPHG/BTEX /8010
Groundwater Elevation	9.43	(ft, msl)	Preservatives:	Ice
Well Bottom	-4.53	(ft, msl)	# of Containers:	5 VOAs
Water Column:	13.96	Feet	Field Tech:	Marc Mullaney
Well Casing Volume:	2.23	gal (WC* 0.16)	Weather Conditions:	Overcast, cool
Casing Volumes Purged:	3.58			
Purge Rate:	0.47	GPM	2" dia well	
80% Recovery from TOC:	0.60	ft. from TOC		

Time	Volume Removed (gal)	Temp. (°C)	CND (salinity) (PPT)	DO mg/L	ORP (mV)	Specific Conductivity (mS/cm)	pH (SU)	Turbidity (NTU)
1015	0	17.38	983.0	0.04	333.1	1143	7.03	476.3
1019	2.0	16.85	953.0	0.02	337.6	1130	6.97	81.9
1022	2.0	16.79	972.0	0.02	337.7	1153	6.99	73.2
1028	2.0	17.76	417.0	0.06	337.1	680	7.01	82.5
1032	2.0	17.72	336.6	0.05	336.6	484	7.02	92.4
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Field Notes:

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory		Job #:	70-97066
	630 29th Avenue		Date Purged:	3/25/2002
	Oakland, California		Purge Method:	Submersible Pump
Sampling Location:	**MW-8**		Date & Time Sampled	3/25/02 1515
Top of Casing:	17.58	(ft, msl)	Sampling Method:	Disposable Bailer
Depth to Water:	5.40	Feet	Sample Type:	TPHG/BTEX /8010
Groundwater Elevation	12.18	(ft, msl)	Preservatives:	Ice
Well Bottom	-2.42	(ft, msl)	# of Containers:	5 VOAs
Water Column:	14.60	Feet	Field Tech:	Marc Mullaney
Well Casing Volume:	2.34	gal (WC* 0.16)	Weather Conditions:	Overcast, Cool
Casing Volumes Purged:	4.28			
Purge Rate:	0.45	GPM	2" dia well	
80% Recovery from TOC:	3.86	ft. from TOC		

Time	Volume Removed (gal)	Temp. (°C)	CND (salinity) (PPT)	DO mg/L	ORP (mV)	Specific Conductivity (mS/cm)	pH (SU)	Turbidity (NTU)
1323	0	15.71	1791	0.41	293.3	2091	6.86	307.8
1328	2.5	14.97	1322	0.02	302.9	1638	6.85	13.6
1331	2.5	15.28	1358	0.08	304.6	1666	6.84	8.6
1336	2.5	15.91	1309	0.09	292.2	1587	6.73	9.1
1345	2.5	16.67	1502	0.04	274.2	1770	6.79	104.5
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Field Notes:

Pump followed water table down to approx 18 inches from bottom and to inlet on pump

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory		Job #:	70-97066
	630 29th Avenue		Date Purged:	3/25/2002
	Oakland, California		Purge Method:	Submersible Pump
Sampling Location:	**MW-9**		Date & Time Sampled:	3/25/02 1425
Top of Casing:	17.61	(ft, msl)	Sampling Method:	Disposable Bailer
Depth to Water:	4.98	Feet	Sample Type:	TPHG/BTEX
Groundwater Elevation	12.63	(ft, msl)	Preservatives:	Ice
Well Bottom	2.65	(ft, msl)	# of Containers:	5 VOAs
Water Column:	9.98	Feet	Field Tech:	Marc Mullaney
Well Casing Volume:	1.60	gal (WC* 0.16)	Weather Conditions:	Overcast, cool
Casing Volumes Purged:	4.38			
Purge Rate:	0.47	GPM	2" dia well	
80% Recovery from TOC:	5.65	ft. from TOC		

Time	Volume Removed (gal)	Temp. (°C)	CND (salinity) (PPT)	DO mg/L	ORP (mV)	Specific Conductivity (mS/cm)	pH (SU)	Turbidity (NTU)
1255	0	16.42	12824	0.06	303.0	15299	6.37	366.5
1257	1.75	15.88	6530	0.04	263.8	8020	6.68	19.6
1302	1.75	16.26	7907	0.06	246.8	9611	6.51	26.4
1306	1.75	16.61	11250	0.10	268.3	13449	6.38	14.4
1310	1.75	16.85	12726	0.09	287.2	14756	6.32	26.2
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Field Notes:

nearly pumped dry

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory		Job #:	70-97066
	630 29th Avenue		Date Purged:	3/25/2002
	Oakland, California		Purge Method:	Submersible Pump
Sampling Location:	**MW-10**		Date & Time Sampled:	3/25/02 1750
Top of Casing:	16.92	(ft, msl)	Sampling Method:	Disposable Bailer
Depth to Water:	3.00	Feet	Sample Type:	TPHG/BTEX
Groundwater Elevation	13.92	(ft, msl)	Preservatives:	Ice
Well Bottom	8.17	(ft, msl)	# of Containers:	5 VOAs
Water Column:	5.75	Feet	Field Tech:	Marc Mullaney
Well Casing Volume:	0.92	gal (WC* 0.16)	Weather Conditions:	Overcast, cool
Casing Volumes Purged:	4.35			
Purge Rate:	0.44	GPM	2" dia well	
80% Recovery from TOC:	9.77	ft. from TOC		

Time	Volume Removed (gal)	Temp. (°C)	CND (salinity) (PPT)	DO mg/L	ORP (mV)	Specific Conductivity (mS/cm)	pH (SU)	Turbidity (NTU)
1405	0	16.09	162	0.07	274.9	405	7.38	846.5
1408	1.0	17.08	595	0.04	264.3	702	7.07	106.3
1410	1.0	17.04	598	0.05	268.7	706	7.05	40.5
1412	1.0	17.01	616	0.05	268.8	728	7.06	49.6
1414	1.0	17.04	635	0.05	264.4	748	7.04	47.1
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Field Notes:

Pump followed water table down, pump on bottom

FIELD SAMPLING DATA SHEET

Job Location:	Former Lemoine Sausage Factory		Job #:	70-97066
	630 29th Avenue		Date Purged:	3/26/2002
	Oakland, California		Purge Method:	Submersible Pump
Sampling Location:	**MW-11**		Date & Time Sampled:	3/26/02 1030
Top of Casing:	14.87	(ft, msl)	Sampling Method:	Disposable Bailer
Depth to Water:	4.68	Feet	Sample Type:	TPHG/BTEX
Groundwater Elevation	10.19	(ft, msl)	Preservatives:	Ice
Well Bottom	-0.27	(ft, msl)	# of Containers:	5 VOAs
Water Column:	10.46	Feet	Field Tech:	Marc Mullaney
Well Casing Volume:	1.67	gal (WC* 0.16)	Weather Conditions:	Overcast, cool
Casing Volumes Purged:	3.73			
Purge Rate:	3.13	GPM	2" dia well	
80% Recovery from TOC:	3.42	ft. from TOC		

Time	Volume Removed (gal)	Temp. (°C)	CND (salinity) (PPT)	DO mg/L	ORP (mV)	Specific Conductivity (mS/cm)	pH (SU)	Turbidity (NTU)
944	0	16.34	1868	0.02	281.6	2215	6.97	993.1
951	1.75	15.84	1867	0.05	293.2	2272	6.96	132.3
954	1.75	16.04	1931	0.04	304.6	2327	6.96	147.5
959	1.75	16.69	1943	0.06	322.4	2312	6.85	279.3
1002	1.00	16.98	1983	0.05	329.0	2341	6.86	166.0
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Field Notes:

Pump followed water table and pump on bottom

APPENDIX B

FIRST QUARTER (MARCH) 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

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

Prepared for:

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

Date: 10-APR-02
Lab Job Number: 157749
Project ID: 70-97066
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.

Laboratory Number: 157749
Client: Clayton Group Services
Location: Sausage Factory

Receipt Date: 03/26/02

CASE NARRATIVE

This hardcopy data package contains sample and QC results for eight water samples that were received on March 26, 2002. All samples were received cold and intact.

TVH / BTXE: High surrogate recovery was observed for Trifluorotoluene in sample IDs MW-1 (C&T#157749-001), MW-6 (157749-003) and MS (QC174573) due to coelution with a hydrocarbon peak. A trace amount of m,p-Xylene was detected slightly above the reporting limit in the method blank batch 71292. No other analytical problems were encountered.

Purgeable Halocarbons by GC/MS: No analytical problems were encountered.

Clayton GROUP SERVICES

CHAIN OF CUSTODY

Lab: Curtis&Tompkins

TAT: Standard

157749

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 Conts.	TPH as Gasoline/BTEX	8010	Sample Condition/Comments	Preservative
-1	MW-1 02Q1	3/25/02	1530	L	5	X	X		HCl
-2	MW-2 02Q1	↓	1230	L	5	X	X		HCl
-3	MW-6 02Q1	↓	1740	L	5	X	X		HCl
-4	MW-7 02Q1	3/26/02	1100	L	4	X	X		HCl
-5	MW-8 02Q1	3/25/02	1515	L	4	X	X		HCl
-6	MW-9 02Q1	↓	1425	L	4	X	X		HCl
-7	MW-10 02Q1	↓	1750	L	5	X	X		HCl
-8	MW-11 02Q1	3/26/02	1030	L	5	X	X		HCl

Preservation Correct? ☒ Yes ☐ No ☐ N/A

Received ☒ On Ice ☒ Cold ☐ Ambient ☒ Intact

Collected by: MARC MULLONEY Date/Time 3/26/02 1140

Collector's Signature: [signature] Date/Time 3/26/02 1140

Relinquished by: [signature] Date/Time 3/26/02 1140

Received by: Date/Time

Relinquished by: Date/Time

Received by: [signature] Date/Time 3-26-02 11:40am

Method of Shipment:

Sample Condition on Rcpt:

Curtis & Tompkins, Ltd.

Gasoline by GC/FID CA LUFT

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	8015B(M)
Matrix:	Water	Received:	03/26/02
Units:	ug/L		

Field ID:	MW-1	Batch#:	71244
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-001	Analyzed:	03/30/02
Diln Fac:	10.00		

Analyte	Result	RL
Gasoline C7-C12	11,000	500

Surrogate	%REC	Limits
Trifluorotoluene (FID)	146 *	68-145
Bromofluorobenzene (FID)	114	66-143

Field ID:	MW-2	Batch#:	71292
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-002	Analyzed:	04/02/02
Diln Fac:	50.00		

Analyte	Result	RL
Gasoline C7-C12	21,000	2,500

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	68-145
Bromofluorobenzene (FID)	109	66-143

Field ID:	MW-6	Batch#:	71244
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-003	Analyzed:	03/29/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	1,200	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	158 *	68-145
Bromofluorobenzene (FID)	139	66-143

Field ID:	MW-7	Batch#:	71317
Type:	SAMPLE	Sampled:	03/26/02
Lab ID:	157749-004	Analyzed:	04/03/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	68-145
Bromofluorobenzene (FID)	100	66-143

*= Value outside of QC limits; see narrative
L= Lighter hydrocarbons contributed to the quantitation
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID CA LUFT

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	8015B(M)
Matrix:	Water	Received:	03/26/02
Units:	ug/L		

Field ID:	MW-8	Batch#:	71244
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-005	Analyzed:	03/30/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	990 L	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	68-145
Bromofluorobenzene (FID)	116	66-143

Field ID:	MW-9	Batch#:	71292
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-006	Analyzed:	04/02/02
Diln Fac:	100.0		

Analyte	Result	RL
Gasoline C7-C12	71,000	5,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	68-145
Bromofluorobenzene (FID)	104	66-143

Field ID:	MW-10	Batch#:	71317
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-007	Analyzed:	04/03/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	68-145
Bromofluorobenzene (FID)	101	66-143

Field ID:	MW-11	Batch#:	71244
Type:	SAMPLE	Sampled:	03/26/02
Lab ID:	157749-008	Analyzed:	03/30/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	130	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	68-145
Bromofluorobenzene (FID)	110	66-143

*= Value outside of QC limits; see narrative
L= Lighter hydrocarbons contributed to the quantitation
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID CA LUFT

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	8015B(M)
Matrix:	Water	Received:	03/26/02
Units:	ug/L		

Type:	BLANK	Batch#:	71244
Lab ID:	QC174521	Analyzed:	03/29/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	68-145
Bromofluorobenzene (FID)	102	66-143

Type:	BLANK	Batch#:	71292
Lab ID:	QC174692	Analyzed:	04/02/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

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

Type:	BLANK	Batch#:	71317
Lab ID:	QC174766	Analyzed:	04/03/02
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

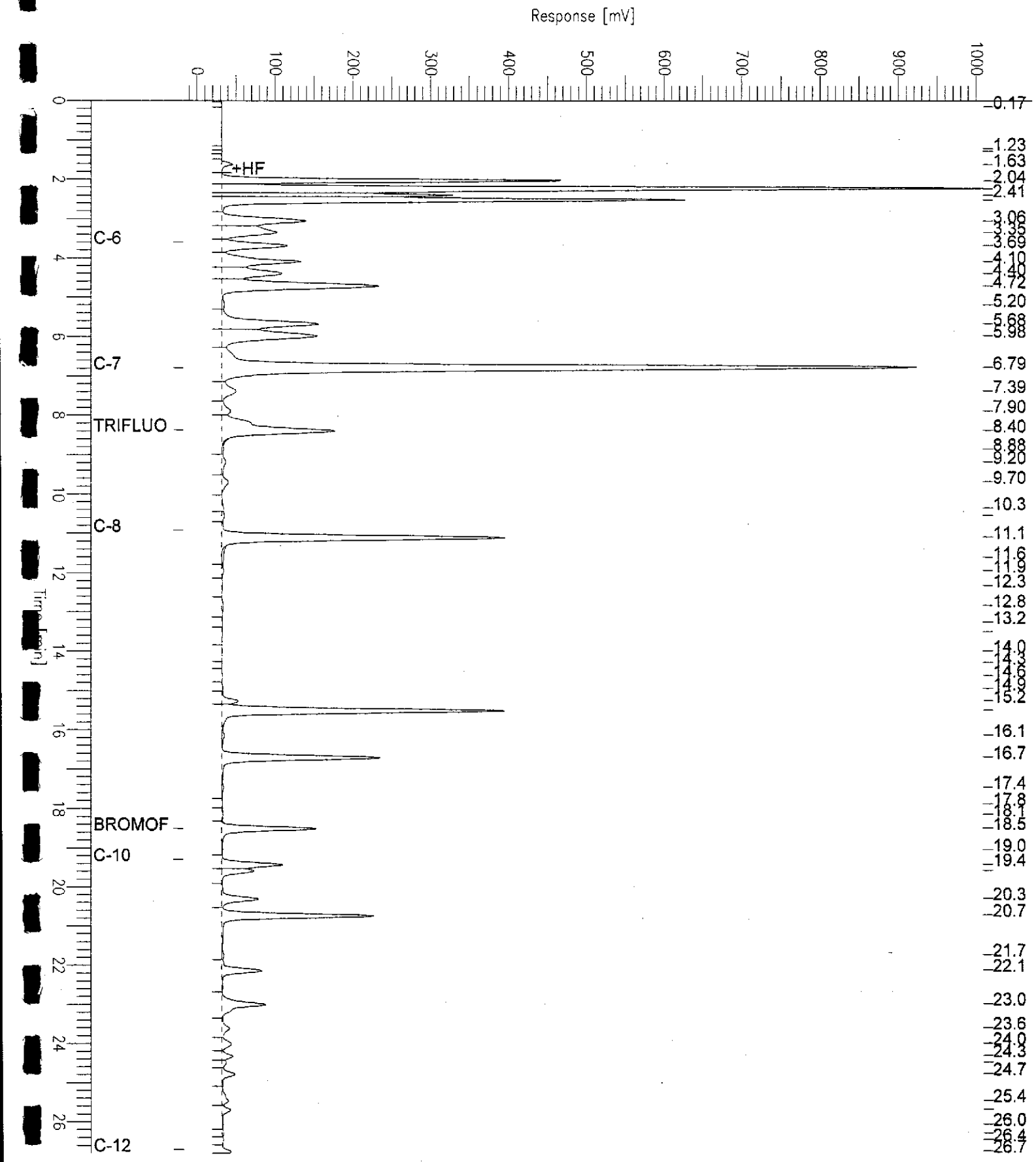
Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	68-145
Bromofluorobenzene (FID)	99	66-143

*= Value outside of QC limits; see narrative
L= Lighter hydrocarbons contributed to the quantitation
ND= Not Detected
RL= Reporting Limit

GC19 TVH 'X' Data File (FID)

Sample Name : 157749-001,71244
FileName : G:\GC19\DATA\088X022.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: -17 mV

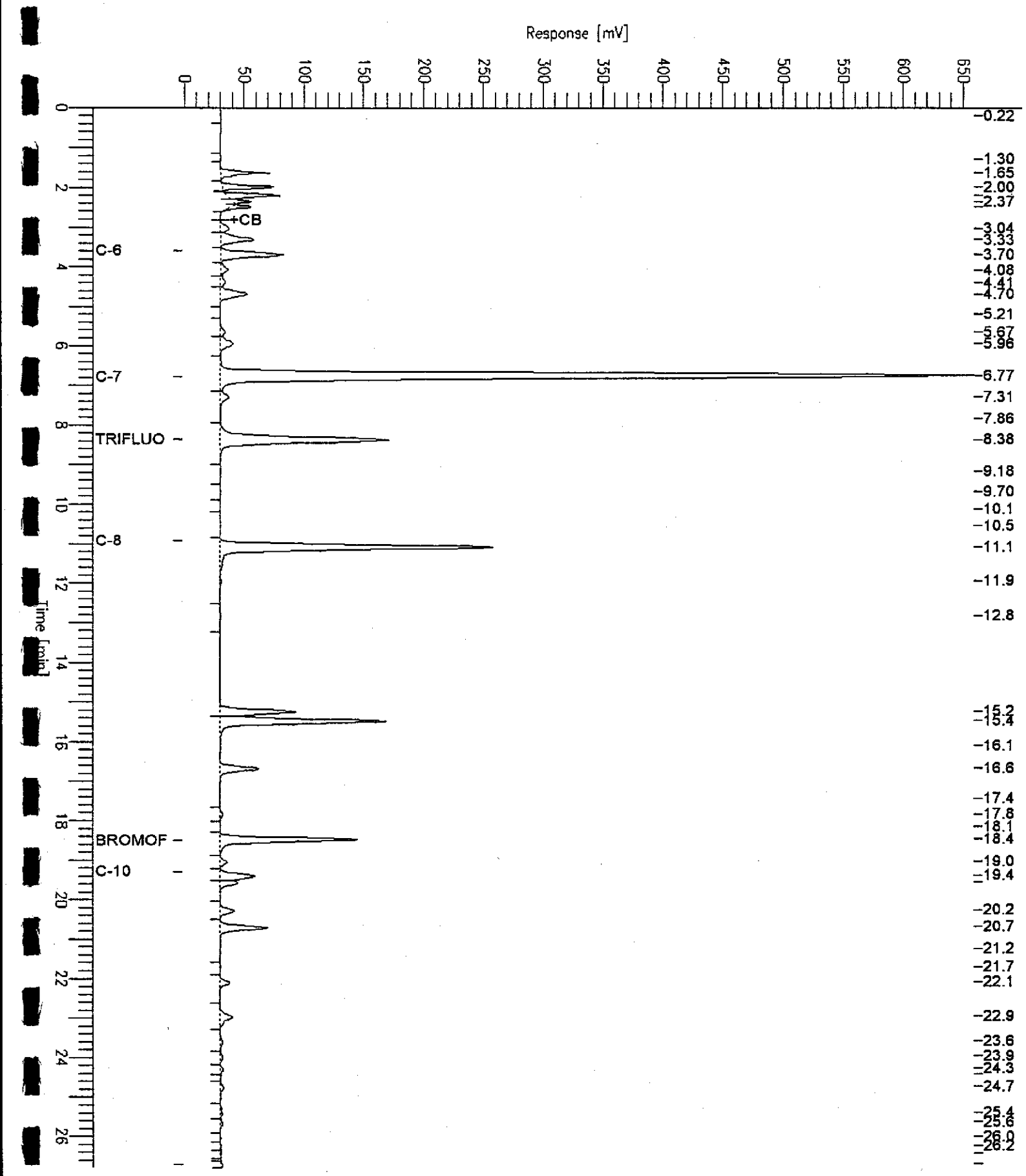
Sample #: d1 Page 1 of 1
Date : 4/1/02 10:38 AM
Time of Injection: 3/30/02 03:46 AM
Low Point : -17.36 mV High Point : 1008.95 mV
Plot Scale: 1026.3 mV



GC19 TVH 'X' Data File (FID)

Sample Name : 157749-002,71292
FileName : G:\GC19\DATA\091X032.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: -2 mV

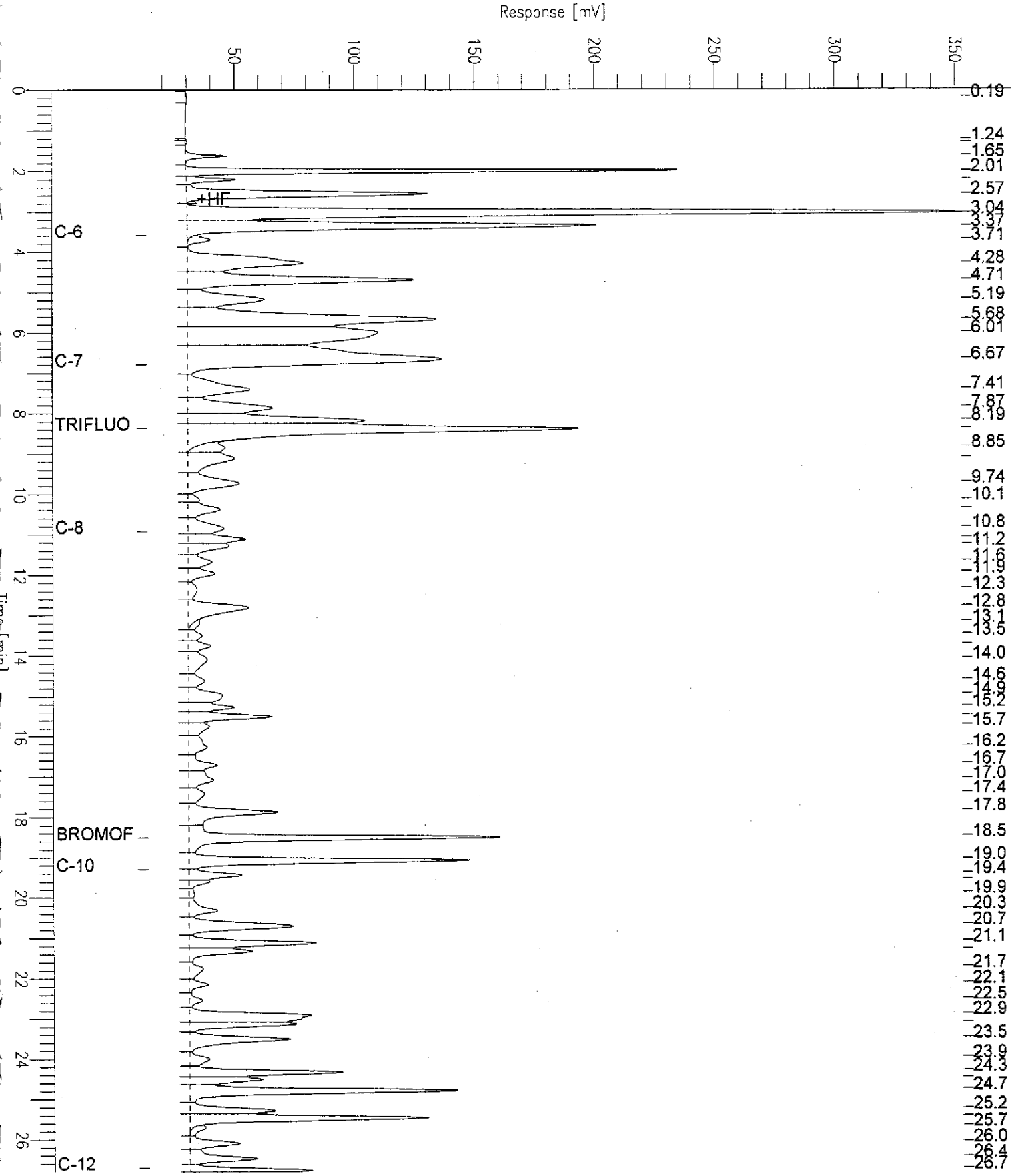
Sample #: A6 Page 1 of 1
Date : 4/2/02 02:25 PM
Time of Injection: 4/2/02 01:58 PM
Low Point : -1.75 mV High Point : 658.98 mV
Plot Scale: 660.7 mV



GC19 TVH 'X' Data File (FID)

Sample Name : 157749-003,71244
FileName : G:\GC19\DATA\088X011.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: 13 mV

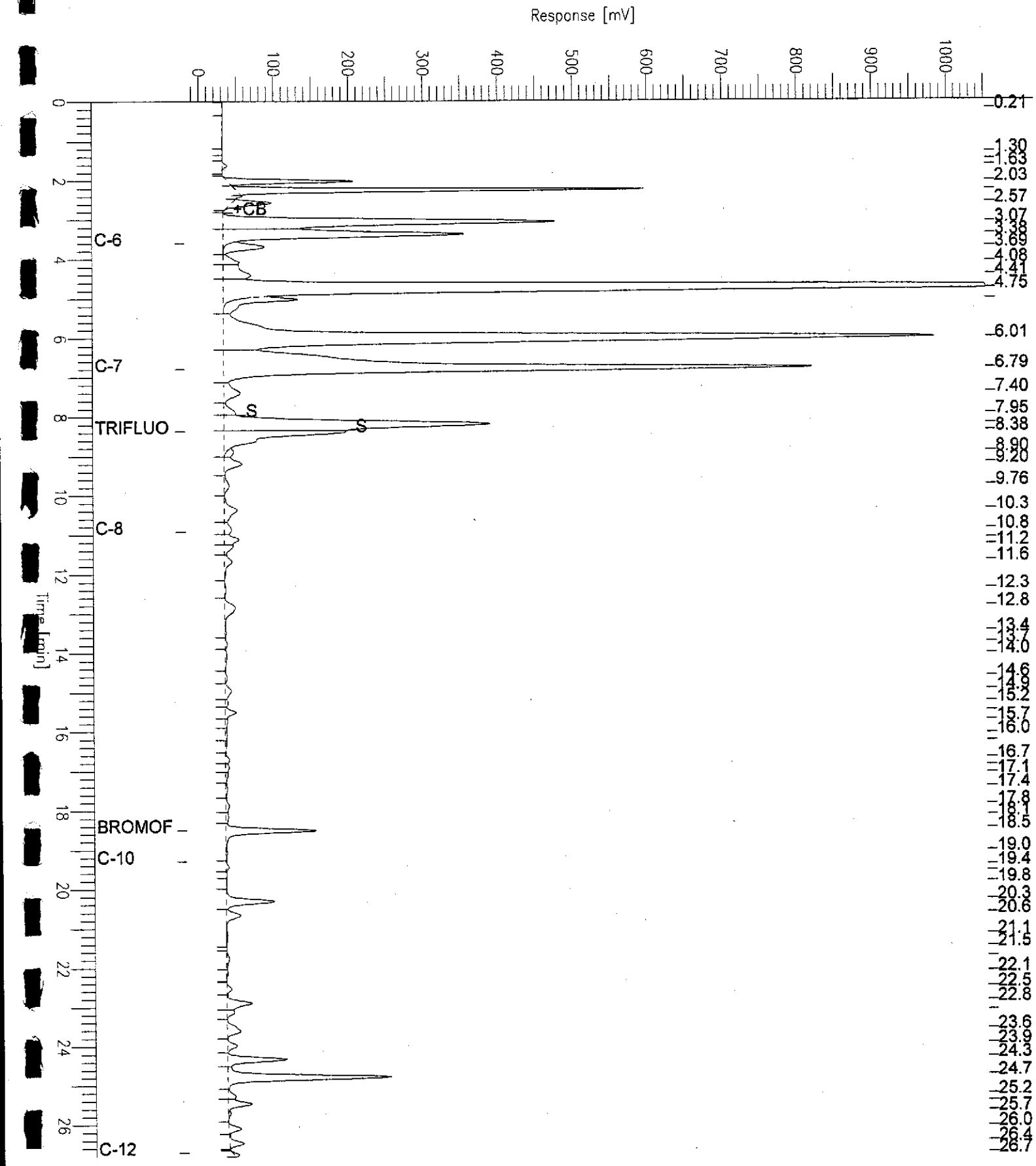
Sample #: d1 Page 1 of 1
Date : 4/1/02 10:03 AM
Time of Injection: 3/29/02 07:50 PM
Low Point : 13.42 mV High Point : 352.45 mV
Plot Scale: 339.0 mV



GC19 TVH 'X' Data File (FID)

Sample Name : 157749-005,71244
FileName : G:\GC19\DATA\088X018.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: -19 mV

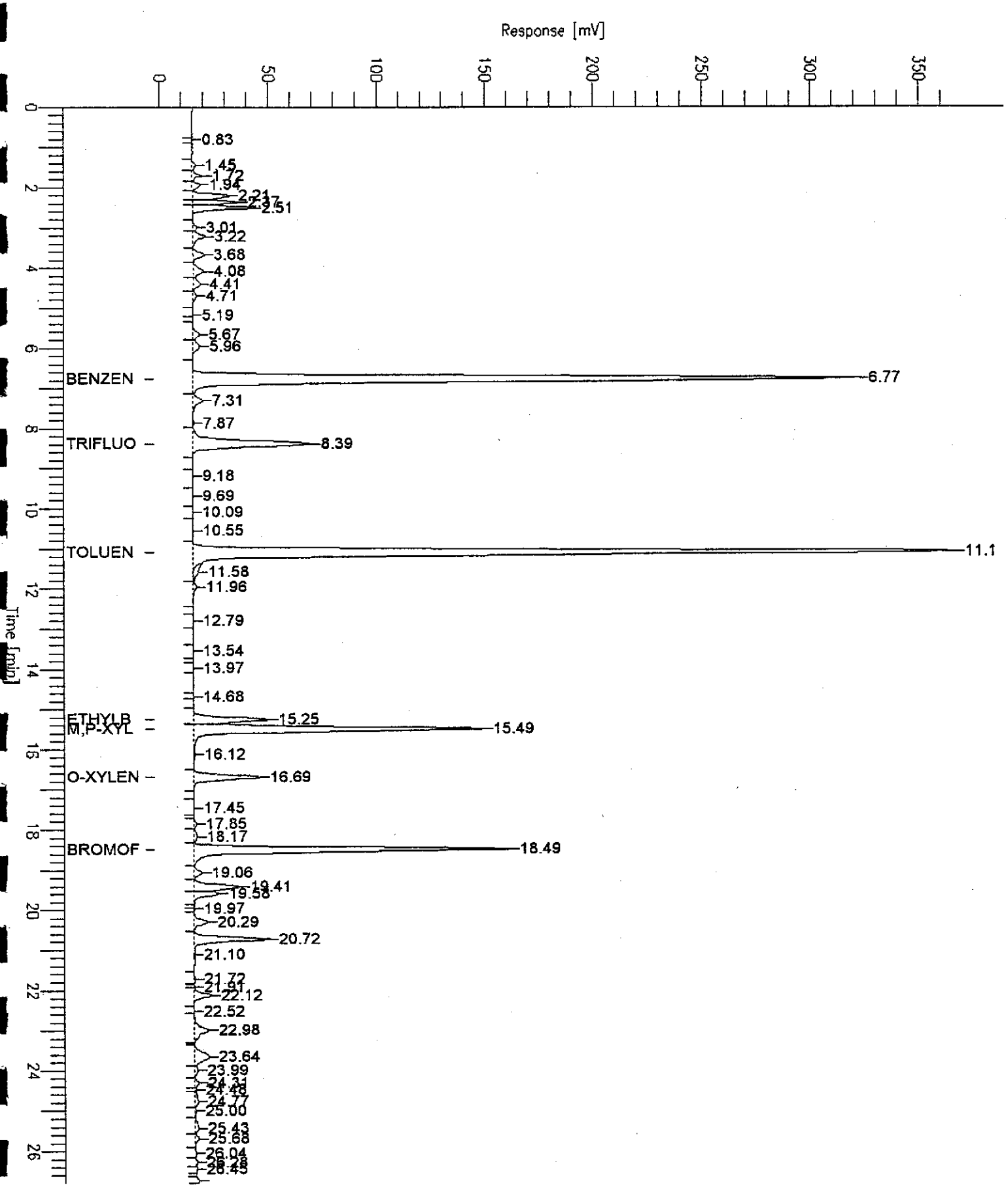
Sample #: d1 Page 1 of 1
Date : 4/3/02 09:32 AM
Time of Injection: 3/30/02 12:52 AM
Low Point : -19.25 mV High Point : 1051.90 mV
Plot Scale: 1071.1 mV



GC19 _TVHBTXE 'Y' BTXE QUANT.

Sample Name : 157749-006,71292
FileName : G:\GC19\DATA\091Y031.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: 1.0 Plot Offset: -3 mV

Sample #: E7 Page 1 of 1
Date : 4/2/02 01:42 PM
Time of Injection: 4/2/02 01:15 PM
Low Point : -2.70 mV High Point : 366.76 mV
Plot Scale: 369.5 mV



Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8021B
Matrix:	Water	Received:	03/26/02
Units:	ug/L		

Field ID:	MW-1	Batch#:	71244
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-001	Analyzed:	03/30/02
Dil Fac:	10.00		

Analyte	Result	RL
Benzene	3,200	5.0
Toluene	1,200	5.0
Ethylbenzene	73	5.0
m,p-Xylenes	1,100	5.0
o-Xylene	760	5.0

Surrogate	%REC	Limits
Trifluorotoluene (PID)	125	53-143
Bromofluorobenzene (PID)	110	52-142

Field ID:	MW-2	Batch#:	71292
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-002	Analyzed:	04/02/02
Dil Fac:	50.00		

Analyte	Result	RL
Benzene	11,000	25
Toluene	3,700	25
Ethylbenzene	1,000	25
m,p-Xylenes	2,200	25
o-Xylene	590	25

Surrogate	%REC	Limits
Trifluorotoluene (PID)	105	53-143
Bromofluorobenzene (PID)	104	52-142

Field ID:	MW-6	Batch#:	71244
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-003	Analyzed:	03/29/02
Dil Fac:	1.000		

Analyte	Result	RL
Benzene	22	0.50
Toluene	8.0	0.50
Ethylbenzene	5.7	0.50
m,p-Xylenes	10	0.50
o-Xylene	3.5	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	161 *	53-143
Bromofluorobenzene (PID)	118	52-142

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8021B
Matrix:	Water	Received:	03/26/02
Units:	ug/L		

Field ID:	MW-7	Batch#:	71317
Type:	SAMPLE	Sampled:	03/26/02
Lab ID:	157749-004	Analyzed:	04/03/02
Dil'n 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)	118	53-143
Bromofluorobenzene (PID)	115	52-142

Field ID:	MW-8	Batch#:	71244
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-005	Analyzed:	03/30/02
Dil'n Fac:	1.000		

Analyte	Result	RL
Benzene	280	0.50
Toluene	7.2	0.50
Ethylbenzene	1.4	0.50
m,p-Xylenes	4.3	0.50
o-Xylene	2.5	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	114	53-143
Bromofluorobenzene (PID)	111	52-142

Field ID:	MW-9	Batch#:	71292
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-006	Analyzed:	04/02/02
Dil'n Fac:	100.0		

Analyte	Result	RL
Benzene	15,000	50
Toluene	17,000	50
Ethylbenzene	1,900	50
m,p-Xylenes	6,100	50
o-Xylene	1,900	50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	102	53-143
Bromofluorobenzene (PID)	101	52-142

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8021B
Matrix:	Water	Received:	03/26/02
Units:	ug/L		

Field ID:	MW-10	Batch#:	71342
Type:	SAMPLE	Sampled:	03/25/02
Lab ID:	157749-007	Analyzed:	04/04/02
Diln Fac:	1.000		

Analyte	Result	RL
Benzene	2.5	0.50
Toluene	3.6	0.50
Ethylbenzene	0.53	0.50
m,p-Xylenes	1.7	0.50
o-Xylene	0.57	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	120	53-143
Bromofluorobenzene (PID)	116	52-142

Field ID:	MW-11	Batch#:	71244
Type:	SAMPLE	Sampled:	03/26/02
Lab ID:	157749-008	Analyzed:	03/30/02
Diln Fac:	1.000		

Analyte	Result	RL
Benzene	11	0.50
Toluene	20	0.50
Ethylbenzene	3.3	0.50
m,p-Xylenes	11	0.50
o-Xylene	3.5	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	104	53-143
Bromofluorobenzene (PID)	108	52-142

Type:	BLANK	Batch#:	71244
Lab ID:	QC174521	Analyzed:	03/29/02
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)	94	53-143
Bromofluorobenzene (PID)	96	52-142

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8021B
Matrix:	Water	Received:	03/26/02
Units:	ug/L		

Type: BLANK
Lab ID: QC174692
Diln Fac: 1.000

Batch#: 71292
Analyzed: 04/02/02

Analyte	Result	RL
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	0.57	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Trifluorotoluene (PID)	97	53-143
Bromofluorobenzene (PID)	100	52-142

Type: BLANK
Lab ID: QC174766
Diln Fac: 1.000

Batch#: 71317
Analyzed: 04/03/02

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)	115	53-143
Bromofluorobenzene (PID)	111	52-142

Type: BLANK
Lab ID: QC174863
Diln Fac: 1.000

Batch#: 71342
Analyzed: 04/04/02

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)	117	53-143
Bromofluorobenzene (PID)	114	52-142

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/FID CA LUFT

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	8015B(M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC174522	Batch#:	71244
Matrix:	Water	Analyzed:	03/29/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,866	93	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	119	68-145
Bromofluorobenzene (FID)	107	66-143

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8021B
Type:	BS	Diln Fac:	1.000
Lab ID:	QC174523	Batch#:	71244
Matrix:	Water	Analyzed:	03/29/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	21.82	109	65-122
Toluene	20.00	21.09	105	67-121
Ethylbenzene	20.00	21.62	108	70-121
m,p-Xylenes	40.00	40.33	101	72-125
o-Xylene	20.00	20.87	104	73-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	105	53-143
Bromofluorobenzene (PID)	106	52-142

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8021B
Type:	BSD	Diln Fac:	1.000
Lab ID:	QC174575	Batch#:	71244
Matrix:	Water	Analyzed:	03/29/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	21.09	105	65-122	3	20
Toluene	20.00	20.61	103	67-121	2	20
Ethylbenzene	20.00	20.75	104	70-121	4	20
m,p-Xylenes	40.00	39.96	100	72-125	1	20
o-Xylene	20.00	20.48	102	73-122	2	20

Surrogate	%REC	Limits
Trifluorotoluene (PID)	102	53-143
Bromofluorobenzene (PID)	105	52-142

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Gasoline by GC/FID CA LUFT

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	8015B(M)
Matrix:	Water	Batch#:	71292
Units:	ug/L	Analyzed:	04/02/02
Diln Fac:	1.000		

Type: BS Lab ID: QC174693

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,961	98	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	127	68-145
Bromofluorobenzene (FID)	115	66-143

Type: BSD Lab ID: QC174694

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,978	99	79-120	1	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	124	68-145
Bromofluorobenzene (FID)	115	66-143

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC174839	Batch#:	71292
Matrix:	Water	Analyzed:	04/02/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	20.36	102	65-122
Toluene	20.00	20.29	101	67-121
Ethylbenzene	20.00	20.68	103	70-121
m,p-Xylenes	40.00	38.51	96	72-125
o-Xylene	20.00	20.36	102	73-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	101	53-143
Bromofluorobenzene (PID)	102	52-142

Curtis & Tompkins, Ltd.

Gasoline by GC/FID CA LUFT

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	8015B(M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC174767	Batch#:	71317
Matrix:	Water	Analyzed:	04/03/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,952	98	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	128	68-145
Bromofluorobenzene (FID)	105	66-143

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8021B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Batch#:	71317

Type: BS Analyzed: 04/03/02
Lab ID: QC174768

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	22.49	112	65-122
Toluene	20.00	22.21	111	67-121
Ethylbenzene	20.00	22.61	113	70-121
m,p-Xylenes	40.00	44.92	112	72-125
o-Xylene	20.00	22.77	114	73-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	122	53-143
Bromofluorobenzene (PID)	118	52-142

Type: BSD Analyzed: 04/04/02
Lab ID: QC174816

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	22.19	111	65-122	1	20
Toluene	20.00	21.53	108	67-121	3	20
Ethylbenzene	20.00	21.89	109	70-121	3	20
m,p-Xylenes	40.00	42.61	107	72-125	5	20
o-Xylene	20.00	22.04	110	73-122	3	20

Surrogate	%REC	Limits
Trifluorotoluene (PID)	121	53-143
Bromofluorobenzene (PID)	118	52-142

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC174865	Batch#:	71342
Matrix:	Water	Analyzed:	04/04/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	21.54	108	65-122
Toluene	20.00	21.50	107	67-121
Ethylbenzene	20.00	21.37	107	70-121
m,p-Xylenes	40.00	43.90	110	72-125
o-Xylene	20.00	22.14	111	73-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	117	53-143
Bromofluorobenzene (PID)	116	52-142

Curtis & Tompkins, Ltd.

Gasoline by GC/FID CA LUFT

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	8015B(M)
Field ID:	ZZZZZZZZZZ	Batch#:	71244
MSS Lab ID:	157778-002	Sampled:	03/27/02
Matrix:	Water	Received:	03/27/02
Units:	ug/L	Analyzed:	03/29/02
Diln Fac:	1.000		

Type: MS Lab ID: QC174573

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	25.45	2,000	1,908	94	67-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	151 *	68-145
Bromofluorobenzene (FID)	116	66-143

Type: MSD Lab ID: QC174574

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,919	95	67-120	1	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	68-145
Bromofluorobenzene (FID)	119	66-143

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Gasoline by GC/FID CA LUFT

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	8015B(M)
Field ID:	ZZZZZZZZZZ	Batch#:	71317
MSS Lab ID:	157858-001	Sampled:	04/02/02
Matrix:	Water	Received:	04/02/02
Units:	ug/L	Analyzed:	04/04/02
Diln Fac:	1.000		

ype: MS Lab ID: QC174817

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	39.67	2,000	1,987	97	67-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	68-145
Bromofluorobenzene (FID)	114	66-143

ype: MSD Lab ID: QC174818

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,026	99	67-120	2	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	68-145
Bromofluorobenzene (FID)	121	66-143

PD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Benzene, Toluene, Ethylbenzene, Xylenes

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8021B
Field ID:	ZZZZZZZZZZ	Batch#:	71342
MSS Lab ID:	157869-009	Sampled:	03/28/02
Matrix:	Water	Received:	04/02/02
Units:	ug/L	Analyzed:	04/04/02
Diln Fac:	1.000		

ype: MS Lab ID: QC174963

Analyte	MSS Result	Spiked	Result	%REC	Limits
Benzene	0.4801	20.00	22.51	110	52-149
Toluene	<0.2300	20.00	21.88	109	69-130
Ethylbenzene	<0.2400	20.00	23.16	116	70-131
m,p-Xylenes	<0.4400	40.00	43.27	108	68-137
o-Xylene	<0.2600	20.00	22.55	113	73-133

Surrogate	%REC	Limits
Trifluorotoluene (PID)	123	53-143
Bromofluorobenzene (PID)	122	52-142

Type: MSD Lab ID: QC174964

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	22.80	112	52-149	1	30
Toluene	20.00	21.87	109	69-130	0	30
Ethylbenzene	20.00	22.74	114	70-131	2	30
m,p-Xylenes	40.00	44.03	110	68-137	2	30
o-Xylene	20.00	22.90	115	73-133	2	30

Surrogate	%REC	Limits
Trifluorotoluene (PID)	124	53-143
Bromofluorobenzene (PID)	125	52-142

PD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Field ID:	MW-1	Batch#:	71207
Lab ID:	157749-001	Sampled:	03/25/02
Matrix:	Water	Received:	03/26/02
Units:	ug/L	Analyzed:	03/28/02
Diln Fac:	10.00		

Analyte	Result	RL
Chloromethane	ND	10
Vinyl Chloride	ND	5.0
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Freon 113	ND	10
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	200
trans-1,2-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Chlorobenzene	ND	5.0
Bromoform	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	95	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	71207
Lab ID:	157749-002	Sampled:	03/25/02
Matrix:	Water	Received:	03/26/02
Units:	ug/L	Analyzed:	03/28/02
Diln Fac:	33.33		

Analyte	Result	RL
Chloromethane	ND	33
Vinyl Chloride	ND	17
Bromomethane	ND	33
Chloroethane	ND	33
Trichlorofluoromethane	ND	17
Freon 113	ND	33
1,1-Dichloroethene	ND	17
Methylene Chloride	ND	670
trans-1,2-Dichloroethene	ND	17
1,1-Dichloroethane	ND	17
cis-1,2-Dichloroethene	ND	17
Chloroform	ND	33
1,1,1-Trichloroethane	ND	17
Carbon Tetrachloride	ND	17
1,2-Dichloroethane	ND	17
Trichloroethene	ND	17
1,2-Dichloropropane	ND	17
Bromodichloromethane	ND	17
cis-1,3-Dichloropropene	ND	17
trans-1,3-Dichloropropene	ND	17
1,1,2-Trichloroethane	ND	17
Tetrachloroethene	ND	17
Dibromochloromethane	ND	17
Chlorobenzene	ND	17
Bromoform	ND	17
1,1,2,2-Tetrachloroethane	ND	17
1,3-Dichlorobenzene	ND	17
1,4-Dichlorobenzene	ND	17
1,2-Dichlorobenzene	ND	17

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	87	77-130
Toluene-d8	96	80-120
Bromofluorobenzene	101	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Field ID:	MW-6	Batch#:	71207
Lab ID:	157749-003	Sampled:	03/25/02
Matrix:	Water	Received:	03/26/02
Units:	ug/L	Analyzed:	03/28/02
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	0.5
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	92	77-130
Toluene-d8	109	80-120
Bromofluorobenzene	98	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Field ID:	MW-7	Batch#:	71172
Lab ID:	157749-004	Sampled:	03/26/02
Matrix:	Water	Received:	03/26/02
Units:	ug/L	Analyzed:	03/27/02
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	0.5
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	96	77-130
Toluene-d8	106	80-120
Bromofluorobenzene	97	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Field ID:	MW-8	Batch#:	71207
Lab ID:	157749-005	Sampled:	03/25/02
Matrix:	Water	Received:	03/26/02
Units:	ug/L	Analyzed:	03/29/02
Diln Fac:	5.000		

Analyte	Result	RL
Chloromethane	ND	5.0
Vinyl Chloride	49	2.5
Bromomethane	ND	5.0
Chloroethane	ND	5.0
Trichlorofluoromethane	ND	2.5
Freon 113	ND	5.0
1,1-Dichloroethene	ND	2.5
Methylene Chloride	ND	100
trans-1,2-Dichloroethene	33	2.5
1,1-Dichloroethane	ND	2.5
cis-1,2-Dichloroethene	790	2.5
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	2.5
Carbon Tetrachloride	ND	2.5
1,2-Dichloroethane	3.6	2.5
Trichloroethene	10	2.5
1,2-Dichloropropane	ND	2.5
Bromodichloromethane	ND	2.5
cis-1,3-Dichloropropene	ND	2.5
trans-1,3-Dichloropropene	ND	2.5
1,1,2-Trichloroethane	ND	2.5
Tetrachloroethene	ND	2.5
Dibromochloromethane	ND	2.5
Chlorobenzene	ND	2.5
Bromoform	ND	2.5
1,1,2,2-Tetrachloroethane	ND	2.5
1,3-Dichlorobenzene	ND	2.5
1,4-Dichlorobenzene	ND	2.5
1,2-Dichlorobenzene	ND	2.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	89	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	95	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Field ID:	MW-9	Batch#:	71172
Lab ID:	157749-006	Sampled:	03/25/02
Matrix:	Water	Received:	03/26/02
Units:	ug/L	Analyzed:	03/28/02
Diln Fac:	62.50		

Analyte	Result	RL
Chloromethane	ND	63
Vinyl Chloride	ND	31
Bromomethane	ND	63
Chloroethane	ND	63
Trichlorofluoromethane	ND	31
Freon 113	ND	63
1,1-Dichloroethene	ND	31
Methylene Chloride	ND	1,300
trans-1,2-Dichloroethene	ND	31
1,1-Dichloroethane	ND	31
cis-1,2-Dichloroethene	ND	31
Chloroform	ND	63
1,1,1-Trichloroethane	ND	31
Carbon Tetrachloride	ND	31
1,2-Dichloroethane	ND	31
Trichloroethene	ND	31
1,2-Dichloropropane	ND	31
Bromodichloromethane	ND	31
cis-1,3-Dichloropropene	ND	31
trans-1,3-Dichloropropene	ND	31
1,1,2-Trichloroethane	ND	31
Tetrachloroethene	ND	31
Dibromochloromethane	ND	31
Chlorobenzene	ND	31
Bromoform	ND	31
1,1,2,2-Tetrachloroethane	ND	31
1,3-Dichlorobenzene	ND	31
1,4-Dichlorobenzene	ND	31
1,2-Dichlorobenzene	ND	31

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	85	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	95	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Field ID:	MW-10	Batch#:	71172
Lab ID:	157749-007	Sampled:	03/25/02
Matrix:	Water	Received:	03/26/02
Units:	ug/L	Analyzed:	03/27/02
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	0.5
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	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Field ID:	MW-11	Batch#:	71172
Lab ID:	157749-008	Sampled:	03/26/02
Matrix:	Water	Received:	03/26/02
Units:	ug/L	Analyzed:	03/27/02
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	0.5
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	92	77-130
Toluene-d8	104	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC174259	Batch#:	71172
Matrix:	Water	Analyzed:	03/27/02
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	0.5
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	96	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC174260	Batch#:	71172
Matrix:	Water	Analyzed:	03/27/02
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	0.5
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	92	77-130
Toluene-d8	106	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC174393	Batch#:	71207
Matrix:	Water	Analyzed:	03/28/02
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	0.5
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	89	77-130
Toluene-d8	105	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC174394	Batch#:	71207
Matrix:	Water	Analyzed:	03/28/02
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	0.5
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	95	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	99	80-120

D= Not Detected
L= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	71172
Units:	ug/L	Analyzed:	03/27/02
Diln Fac:	1.000		

Type: BS Lab ID: QC174257

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	44.48	89	71-131
Trichloroethene	50.00	49.22	98	78-120
Chlorobenzene	50.00	48.58	97	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	77-130
Toluene-d8	105	80-120
Bromofluorobenzene	93	80-120

Type: BSD Lab ID: QC174258

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	46.35	93	71-131	4	20
Trichloroethene	50.00	49.99	100	78-120	2	20
Chlorobenzene	50.00	49.79	100	80-120	2	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	98	77-130
Toluene-d8	110	80-120
Bromofluorobenzene	99	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Halocarbons by GC/MS

Lab #:	157749	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	71207
Units:	ug/L	Analyzed:	03/28/02
Diln Fac:	1.000		

Type: BS Lab ID: QC174391

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	37.33	75	71-131
Trichloroethene	50.00	50.53	101	78-120
Chlorobenzene	50.00	50.05	100	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	77-130
Toluene-d8	112	80-120
Bromofluorobenzene	93	80-120

Type: BSD Lab ID: QC174392

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	44.36	89	71-131	17	20
Trichloroethene	50.00	47.25	95	78-120	7	20
Chlorobenzene	50.00	48.36	97	80-120	3	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	85	77-130
Toluene-d8	104	80-120
Bromofluorobenzene	98	80-120

PD= Relative Percent Difference