Chaney, Walton & McCall (LLC)

No. 35 Embarcadero Cove
Oakland, California 94606-5203
510-534-5100 ◉ 510-534-5528 FAX
cwandm@aol.com

August 30, 1999

STID 3191
RESPONSE
9/20/99

Mr. Amir K. Gholami, REHS
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

QUARTERLY SELF-MONITORING REPORT
SHALLOW GROUNDWATER MONITORING WELLS
THOMPSON AND THOMPSON FENCE CO.
2584 GRANT AVENUE
SAN LORENZO, CALIFORNIA

Dear Mr. Gholami:

At the request of Thompson and Thompson Fence Co., Chaney, Walton & McCall (LLC) (CW&M) performed monitoring of the three (3) shallow groundwater wells located at the subject Site during the second calendar quarter of 1999 and prepared this report based on the results. This report summarizes the monitoring and analytical procedures used and the results. Included in this report is an updated shallow groundwater hydraulic gradient map (Figure 1), as well as a summary based on available information of laboratory results (Table 1) for samples analyzed to date.

Groundwater Elevation Readings: The depth to groundwater was measured prior to purging the monitoring wells. A shallow groundwater hydraulic gradient map (Figure 1) was generated using surveyed mean sea level (MSL) elevation as the datum.

Sample Collection: Quarterly monitoring took place on May 21, 1999. Three wells were purged and sampled. Groundwater samples were obtained by purging the wells by withdrawing a minimum of three volumes of shallow groundwater. Each 2" diameter well was purged using a new, clean, disposable Teflon bailer. Hydrogen ion concentration (pH), electrical conductivity, and temperature were measured and measurements recorded throughout the purging process. Field data readings recorded during the purging are in the project file at the CW&M Oakland office.

Groundwater samples were collected from each well with a new, clean, bottom loading Teflon bailer and decanted into proper containers provided by the analytical laboratory with hydrochloric acid preservative. The samples were labeled, recorded on chain-of-custody forms, and placed on crushed ice (4'C) for transportation to the laboratory.

Purge Water Storage: Groundwater purged from the monitoring wells is stored onsite in a closed, fifty-five-gallon DOT-17H approved barrel, labeled as to date filled and contents.

Analysis: The analyses performed on the groundwater samples collected consisted of TPH-G (gasoline), BTEX, and MTBE using EPA Methods 8015 and 8020. The analyses were performed by Curtis & Tompkins. Ltd, of Berkeley, California. Copies of the laboratory analytical reports dated June 2, 1999, lab job number 139544 are attached.

If you have any questions, please contact either of the undersigned.

Sincerely,

Chaney, Walton & McCall (LLC)

Michael Swaney
Project Manager

Jonathon C. Goldman, P.E.
Principal Civil Engineer
California Civil: C042165
Expires: 31MAR00

MWS/JCG:jg

Enclosures: Figure 1
Table 1

Attachment: Laboratory Analytical Reports

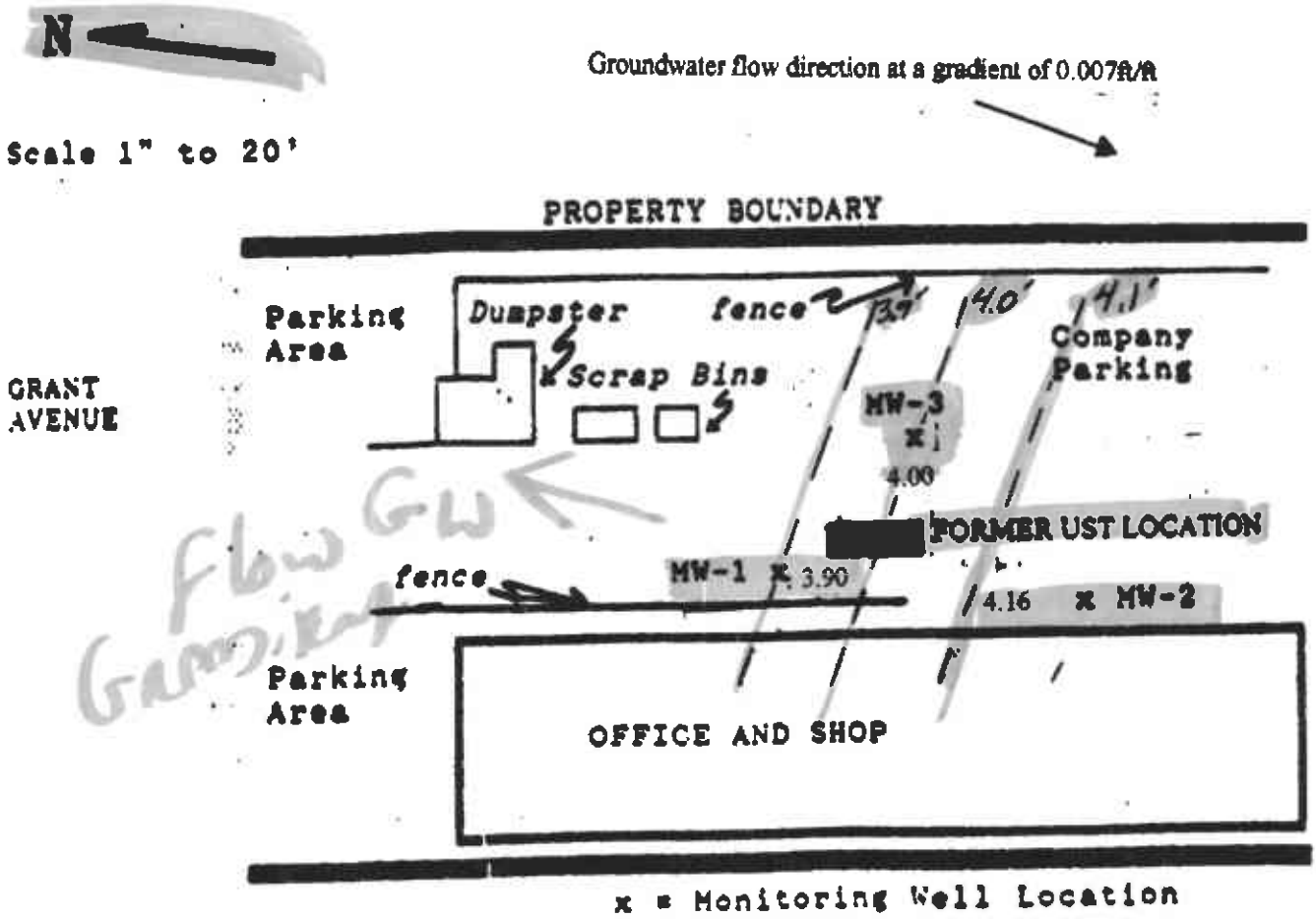
TABLE 1
SUMMARY OF AVAILABLE LABORATORY RESULTS
THOMPSON & THOMPSON FENCE CO. SITE
2584 GRANT AVE., SAN LORENZO, CA

		ANALYTE AND RESULT (micrograms per liter, ug/L, or ppb)					
DATE SAMPLED	WELL SAMPLED	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
3/7/96	TW-1	28,000	700	210	830	4,600	<500
3/7/96	TW-2	13,000	410	840	440	1,700	<500
3/7/96	TW-3	<50	<0.5	<0.5	<0.5	<2	<50
5/15/96	MW-1	33,000	2,200	770	1,100	6,500	<1,000
5/15/96	MW-2	11,000	420	530	390	1,000	<1,000
5/15/96	MW-3	<50	<0.5	<0.5	<0.5	<2	<50
10/4/96	MW-1	*31,000	*4,700	*280	*2,100	*4,700	—
10/4/96	MW-2	*15,000	*1,100	*70	*900	*1,300	—
10/4/96	MW-3	<50	<0.5	<0.5	<0.5	<2	—
3/28/97	MW-1	*17,000	*1,400	*160	*630	*2,900	—
3/28/97	MW-2	*1,900	*59	*19	*65	*79	—
3/28/97	MW-3	<50	<0.5	1	<0.5	<2	—
6/30/97	MW-1	*8,000	*880	*130	*370	*130	—
6/30/97	MW-2	*26,000	*2,800	*240	*1,400	*5,400	—
6/30/97	MW-3	<50	<0.5	<0.5	<0.5	<2	—
1/21/99	MW-1	24,000	1,800	120	890	1,740	110
1/21/99	MW-2	12,000	1,100	780	540	1,310	300
1/21/99	MW-3	<50	<0.5	<0.5	<0.5	<0.5	<2
5/21/99	MW-1	*13,000	1,000	46	450	990	150
5/21/99	MW-2	2,200	38	38	40	147	200
5/21/99	MW-3	<50	<0.5	<0.5	<0.5	<0.5	18

Notes:
TPH-G = Total Petroleum Hydrocarbons as Gasoline
MTBE = Methyl-Tert-Butyl-Ether
ppb = parts per billion
MW = Monitoring Well
— = not analyzed/not applicable
TW = Temporary Well
* = Reporting limits elevated due to high levels of target compounds. Sample run diluted.

Figure 1

MONITORING WELL LOCATION AND GROUNWATER ELEVATION CONTOUR
2584 GRANT AVENUE, SAN LORENZO, CALIFORNIA
MEASURED: MAY 21, 1999



WELL	CASING ELEVATION (MSL)	DEPTH TO WATER (FT)	GROUNDWATER ELEVATION (FT)
MW-1	8.76	4.86	3.90
MW-2	8.78	4.62	4.16
MW-3	8.63	4.63	4.00

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

ANALYTICAL REPORT

Prepared for:

Chaney,Walton & McCall
No.35 Embarcadero Cove
Oakland, CA 94606-5203

Date: 02-JUN-99
Lab Job Number: 139544
Project ID: N/A
Location: Thompson Fence Co.

Reviewed by:

Reviewed by:

CHAIN OF CUSTODY FORM

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

C&T LOGIN # 135543
135544

Sampler: Daniel Self

Project No:

Report To: Mike Sweeney

Project Name: Thompson Fence Co.

Company: Chaney, Walton & McCall

Project P.O.:

Telephone: 510-534-5700

Turnaround Time: Standard

Fax: 510-534-5528

Laboratory Number	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO	Preservative: HNO_3	Preservative: ICE	Field Notes	Analyses: BTEX, TPH, MTBE
1	MW-1	5/21/99		X		3	X				Monitoring Well	X
2	MW-2	↓		X		3	X				↓	X
3	MW-3	↓		X		3	X				↓	X
For Laboratory Use												

Notes:
! COLD !

RELINQUISHED BY:	RECEIVED BY:
Signature	Signature
5/21/99 14:20 DATE/TIME	5/21/99 1420 DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

TVH-Total Volatile Hydrocarbons

Client: Chaney,Walton & McCall
Location: Thompson Fence Co.

Analysis Method: EPA 8015M
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
139544-001	MW-1	48290	05/21/99	05/28/99	05/28/99	
139544-002	MW-2	48290	05/21/99	05/28/99	05/28/99	
139544-003	MW-3	48290	05/21/99	05/28/99	05/28/99	

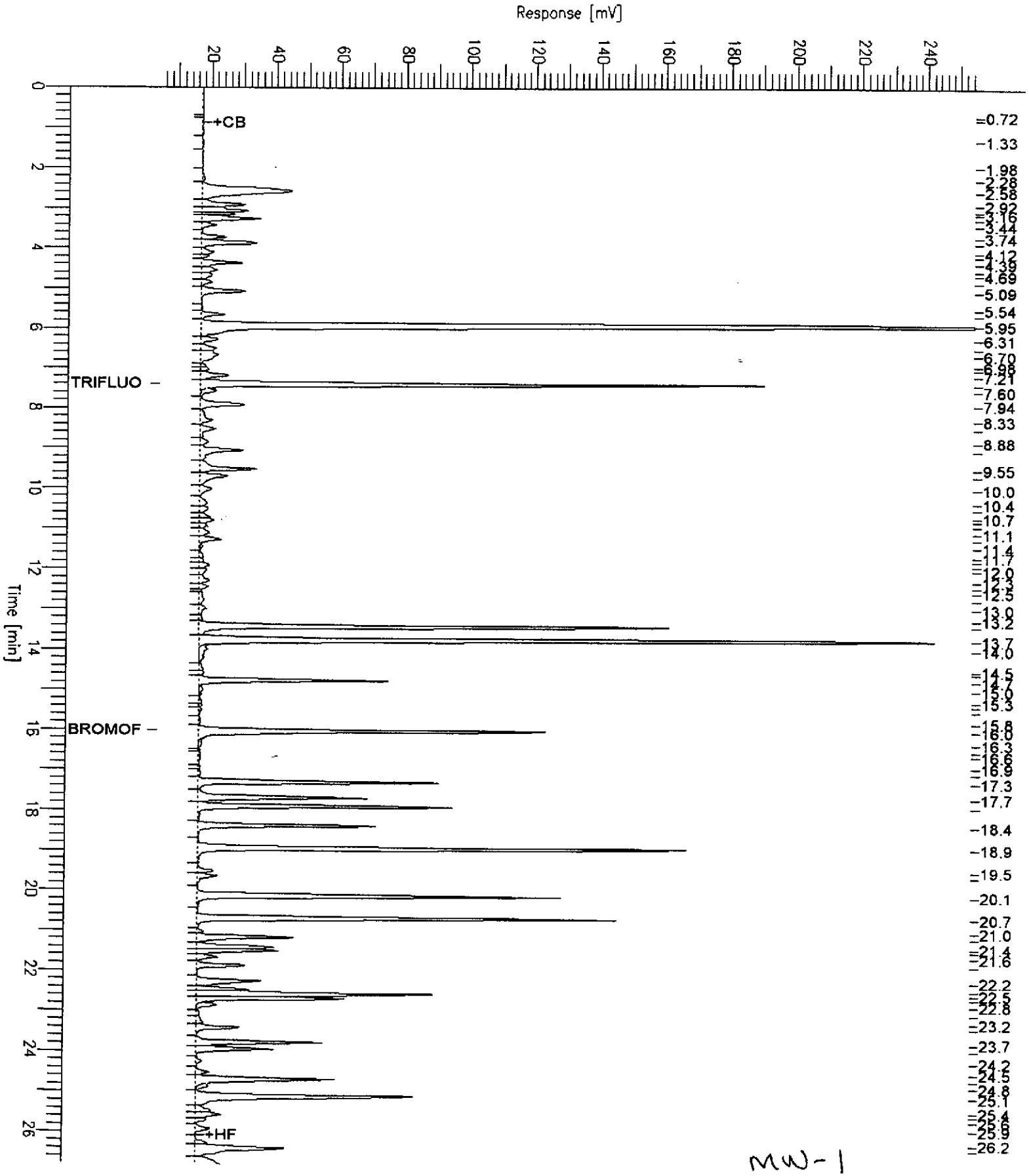
Matrix: Water

Analyte Diln Fac:	Units	139544-001 10	139544-002 1	139544-003 1
Gasoline C7-C12	ug/L	13000	2200	<50
Surrogate				
Trifluorotoluene	%REC	108	78	72
Bromofluorobenzene	%REC	127	102	72

GC19 TVH 'X' Data File (FID)

Sample Name : 139544-001,48290
FileName : G:\GC19\DATA\147X036.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 5 mV

Sample #: Page 1 of 1
Date : 5/28/99 10:13 AM
Time of Injection: 5/28/99 09:38 AM
Low Point : 4.51 mV High Point : 254.51 mV
Plot Scale: 250.0 mV

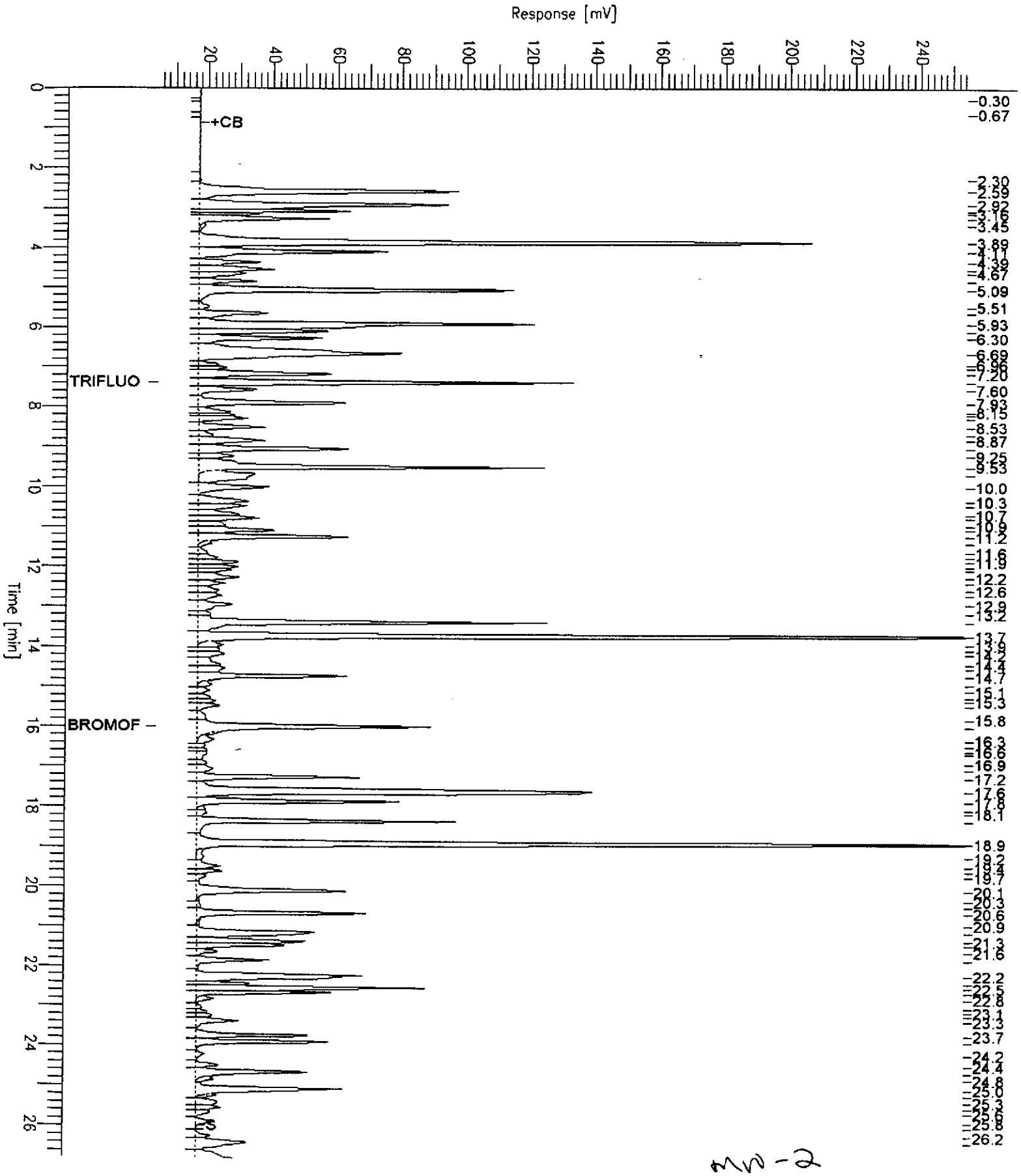


MW-1

GC19 TVH 'X' Data File (FID)

Sample Name : 139544-002,48290
FileName : G:\GC19\DATA\147X031.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 5 mV

Sample #: Page 1 of 1
Date : 5/28/99 10:13 AM
Time of Injection: 5/28/99 06:04 AM
Low Point : 4.61 mV High Point : 254.61 mV
Plot Scale: 250.0 mV



M2-2

TVH-Total Volatile Hydrocarbons

Client:	Chaney,Walton & McCall	Analysis Method:	EPA 8015M
Location:	Thompson Fence Co.	Prep Method:	EPA 5030

METHOD BLANK

Matrix:	Water	Prep Date:	05/27/99
Batch#:	48290	Analysis Date:	05/27/99
Units:	ug/L		
Diln Fac:	1		

MB Lab ID: QC98511

Analyte	Result
Gasoline C7-C12	<50

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	98	53-150
Bromofluorobenzene	94	53-149

Lab #: 139544

BATCH QC REPORT

Curtis & Tompkins, Ltd.

TVH-Total Volatile Hydrocarbons

Client:	Chaney,Walton & McCall	Analysis Method:	EPA 8015M
Location:	Thompson Fence Co.	Prep Method:	EPA 5030

LABORATORY CONTROL SAMPLE

Matrix:	Water	Prep Date:	05/27/99
Batch#:	48290	Analysis Date:	05/27/99
Units:	ug/L		
Diln Fac:	1		

LCS Lab ID: QC98510

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	1725	2000	86	77-117

Surrogate	%Rec	Limits
Trifluorotoluene	106	53-150
Bromofluorobenzene	110	53-149

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

TVH-Total Volatile Hydrocarbons

Client:	Chaney,Walton & McCall	Analysis Method:	EPA 8015M
Location:	Thompson Fence Co.	Prep Method:	EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID:	ZZZZZZ	Sample Date:	05/25/99
Lab ID:	139588-002	Received Date:	05/25/99
Matrix:	Water	Prep Date:	05/27/99
Batch#:	48290	Analysis Date:	05/27/99
Units:	ug/L		
Diln Fac:	1		

MS Lab ID: QC98514

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	2000	<50	1871	94	69-131

Surrogate	%Rec	Limits
Trifluorotoluene	100	53-150
Bromofluorobenzene	108	53-149

MSD Lab ID: QC98515

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	2000	1872	94	69-131	0	13

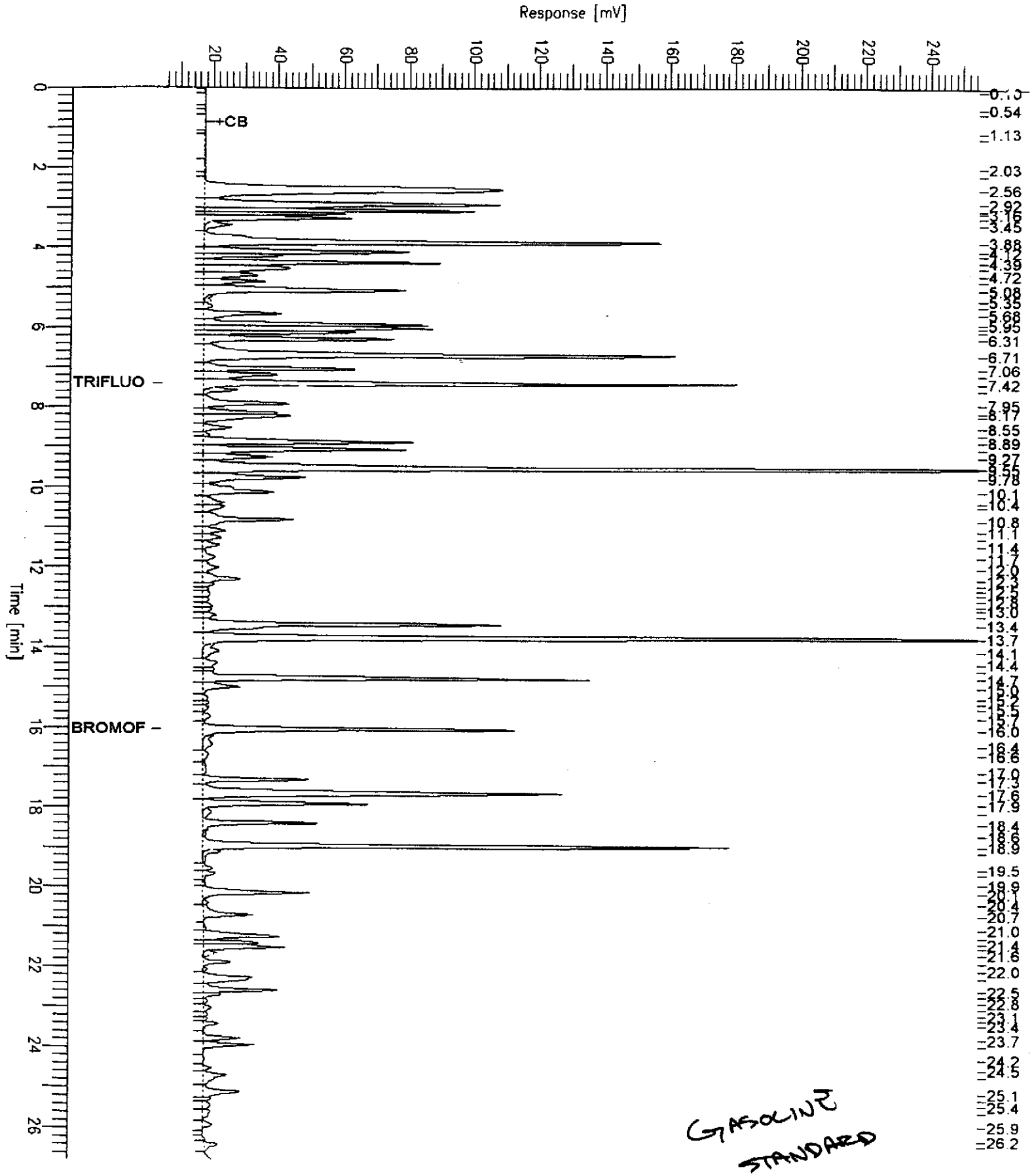
Surrogate	%Rec	Limits
Trifluorotoluene	98	53-150
Bromofluorobenzene	107	53-149

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

GC19 TVH 'X' Data File (FID)

Sample Name : CCV/LCS,QC98510,99WS7547,48290
FileName : G:\GC19\DATA\147X001.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.80 min
Scale Factor: -1.0 Plot Offset: 5 mV

Sample #: GAS Page 1 of 1
Date : 5/27/99 10:42 AM
Time of Injection: 5/27/99 10:14 AM
Low Point : 4.75 mV High Point : 254.75 mV
Plot Scale: 250.0 mV



GASOLINE STANDARD

BTXE

Client: Chaney,Walton & McCall
Location: Thompson Fence Co.

Analysis Method: EPA 8021B
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
139544-001	MW-1	48334	05/21/99	05/29/99	05/29/99	
139544-002	MW-2	48290	05/21/99	05/28/99	05/28/99	
139544-003	MW-3	48290	05/21/99	05/28/99	05/28/99	

Matrix: Water

Analyte Diln Fac:	Units	139544-001 20	139544-002 1	139544-003 1
MTBE	ug/L	150	200	18
Benzene	ug/L	1900	38	<0.5
Toluene	ug/L	48	38	<0.5
Ethylbenzene	ug/L	450	40	<0.5
m,p-Xylenes	ug/L	800	130	<0.5
o-Xylene	ug/L	190	17	<0.5
Surrogate				
Trifluorotoluene	%REC	78	93	86
Bromofluorobenzene	%REC	89	98	88

BATCH QC REPORT

Curtis & Tompkins Ltd.

BTXE

Client:	Chaney,Walton & McCall	Analysis Method:	EPA 8021B
Location:	Thompson Fence Co.	Prep Method:	EPA 5030

METHOD BLANK

Matrix:	Water	Prep Date:	05/27/99
Batch#:	48290	Analysis Date:	05/27/99
Units:	ug/L		
Diln Fac:	1		

MB Lab ID: QC98511

Analyte	Result
MTBE	<20
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylenes	<0.5
o-Xylene	<0.5

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	117	51-143
Bromofluorobenzene	117	37-146

BTXE

Client:	Chaney,Walton & McCall	Analysis Method:	EPA 8021B
Location:	Thompson Fence Co.	Prep Method:	EPA 5030

METHOD BLANK

Matrix:	Water	Prep Date:	05/28/99
Batch#:	48334	Analysis Date:	05/28/99
Units:	ug/L		
Diln Fac:	1		

MB Lab ID: QC98695

Analyte	Result
MTBE	<20
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylenes	<0.5
o-Xylene	<0.5

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	115	51-143
Bromofluorobenzene	113	37-146

BATCH QC REPORT

Curtis & Tompkins, Ltd.

BTXE

Client: Chaney,Walton & McCall
Location: Thompson Fence Co.

Analysis Method: EPA 8021B
Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water
Batch#: 48334
Units: ug/L
Diln Fac: 1

Prep Date: 05/28/99
Analysis Date: 05/28/99

BS Lab ID: QC98696

Analyte	Spike Added	BS	%Rec #	Limits
MTBE	100	19.48	97	59-135
Benzene	20	18.78	94	65-111
Toluene	20	19.59	98	76-117
Ethylbenzene	20	19.37	97	71-121
m,p-Xylenes	40	40.77	102	80-123
o-Xylene	20	19.68	98	75-127

Surrogate	%Rec	Limits
Trifluorotoluene	105	51-143
Bromofluorobenzene	105	37-146

BSD Lab ID: QC98697

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
MTBE	100	18.22	91	59-135	7	13
Benzene	20	18.47	92	65-111	2	10
Toluene	20	19.45	97	76-117	1	10
Ethylbenzene	20	19.24	96	71-121	1	11
m,p-Xylenes	40	40.52	101	80-123	1	10
o-Xylene	20	19.52	98	75-127	1	11

Surrogate	%Rec	Limits
Trifluorotoluene	106	51-143
Bromofluorobenzene	103	37-146

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

BATCH QC REPORT

Curtis & Tompkins, Ltd.

BTXE

Client: Chaney,Walton & McCall
Location: Thompson Fence Co.

Analysis Method: EPA 8021B
Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water
Batch#: 48290
Units: ug/L
Diln Fac: 1

Prep Date: 05/27/99
Analysis Date: 05/27/99

BS Lab ID: QC98512

Analyte	Spike Added	BS	%Rec #	Limits
MTBE	20	18.65	93	59-135
Benzene	20	18.57	93	65-111
Toluene	20	19.19	96	76-117
Ethylbenzene	20	19.02	95	71-121
m,p-Xylenes	40	39.88	100	80-123
o-Xylene	20	19.25	96	75-127

Surrogate	%Rec	Limits
Trifluorotoluene	121	51-143
Bromofluorobenzene	123	37-146

BSD Lab ID: QC98513

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
MTBE	20	19.46	97	59-135	4	13
Benzene	20	18.91	95	65-111	2	10
Toluene	20	19.9	100	76-117	4	10
Ethylbenzene	20	19.58	98	71-121	3	11
m,p-Xylenes	40	41.23	103	80-123	3	10
o-Xylene	20	19.84	99	75-127	3	11

Surrogate	%Rec	Limits
Trifluorotoluene	119	51-143
Bromofluorobenzene	119	37-146

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits