



Texaco Refining
and Marketing Inc

108 Cutting Blvd
Richmond CA 94804

December 28, 1994

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95 JAN -5 11 2:05

ENV - STUDIES, SURVEYS & REPORTS

Former Texaco Service Station
1127 Lincoln Avenue, Alameda, CA
EBMUD Account No. 502-74621

Mr. Safa Toma
East Bay Municipal Utility District
Source Control Division, M.S. 702
P.O. Box 24055, 375 11th Street,
Mail slot #702
Oakland, California 94623

Dear Mr. Toma:

Enclosed is the Annual Self-Monitoring Report Summary, dated December 31, 1994, for the subject site.

Regarding the above-referenced report,

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Any questions regarding this report may be directed to me at (510) 236-9139.

Best Regards,

Karen E. Petryna
Project Coordinator
Texaco Environmental Services

KEP:eg
P:\EG\KEPCVRS\1127ASMR.CVR

Enclosure

cc. Mr. Thomas Peacock
Alameda County Environmental Health Department
80 Swan Way, Room 200 RZOFile-UCPFile (w/enclosure)
Oakland, CA 94621 RRZielinski (w/o enclosure)

PR RD

**EBMUD PERMIT ACCOUNT NO. 502-74621
 SELF MONITORING REPORT SUMMARY
 DATE SAMPLED: OCTOBER 5, 1994 AND NOVEMBER 3, 1994**

Reporting Period: 08/11/94 to 11/30/94
 Permittee: Texaco Environmental Services
 Site Name: Former Texaco Service Station
 Site Address: 1127 Lincoln Ave., Alameda, CA

Due Date: 12/31/94
 EBMUD Permit: #502-74621

Company Contact: Karen Petryna
 Mailing Address: 108 Cutting Boulevard
Richmond, CA 94804
 Phone Number: (510) 236-9139

Consultant: Groundwater Technology, Inc.
 Address: 1401 Halyard Drive, Suite 140
West Sacramento, CA 95691
 Contact: Brian Garber
 Phone Number: (916) 372-4700

Any violation of waste discharge requirement during this period? Yes _____ No X
 If yes, include attachment describing violation and corrective actions taken.

GROUNDWATER DISCHARGE DATA

Sample Location	Date	Flow Rate (gpm)	Totalizer Readings (gallons)	Cumulative Volume (gallons)	Sample Location	Date	Flow Rate (gpm)	Totalizer Reading (gallons)	Cumulative Volume (gallons)
Effluent	06/94	**	**	**	W-2	06/94	**	**	**
	07/94	**	**	**		07/94	**	**	**
	08/11/94	6.8	451158			08/11/94	OFF	232.44	
	09/28/94	0	10451345	10000187		09/28/94		243	10.56
	10/05/94	7.2	10451370	10000212		10/05/94	N/A	243	10.56
	11/03/94	6.2	10543253	10092095		11/03/94	NA	NA	10.56
MW-5	06/94	**	**	**	AUX	06/94	**	**	**
	07/94	**	**	**		07/94	**	**	**
	08/11/94	3.95	49685.1			08/11/94	N/A	108023	
	09/28/94	--	213392	163706.9		09/28/94		108134	111
	10/05/94	4.38	213402	163716.9		10/05/94	N/A	108144	121
	11/03/94	3.53	245903	196217.9		11/03/94	NA	NA	131
W-1	06/94	**	**	**	Notes: ** System not Operational System was not installed until August 1994. Systems was off for maintenance form 9/18/94 to 10/05/94				
	07/94	**	**	**					
	08/11/94	4.25	121854						
	09/28/94	--	121902	48					
	10/05/94	4.33	121911	57					
	11/03/94	3.65	135346	13492					

Flow Rate for this reporting period: 6.2 gpm
 Total Volume Discharged Groundwater for this reporting period: 1E+07 gallons

SEMI-ANNUAL WATER REPORTING

Sample Location	Date	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
Influent	10/05/94	1,500	320	120	5.8	150
	11/03/94	990	130	23	9.9	170
Effluent	10/05/94	ND	0.70	ND	ND	ND
	11/03/94	ND	ND	1.2	ND	ND
Carbon Inf	10/05/94	79	12	4.7	2.2	7.2
	11/03/94	100	15	4.8	1.1	15
T-1	10/05/94	ND	2.6	1.1	ND	1.6
	11/03/94	ND	2.2	0.84	ND	2.1

Explanation:
 TPH-G = Total petroleum hydrocarbons-ac-gasoline
 ** = Not Analyzed
 gpm = Gallons per minute
 pgd = Gallons per day
 NM = Not measured
 ppb = Parts per billion
 Note: Certified analytical laboratory reports enclosed

Company Groundwater Technology, Inc
 Signature Brian H. Garber
 Brian H. Garber
 Project Manager
 Date 12/20/94

SITE VISITATION FORM

FOR WASTEWATER DISCHARGE SAMPLING SYSTEM OPERATION AND MAINTENANCE

1127 Lincoln Ave, Alameda

Site Address

Sampled By: Mark Czipka

Date: 8/11/94

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	✓		
2nd Contain. Float Switch Working	✓		
Adjust Flow Rate		✓	
Filter Checked and Cleared	✓		
Strainer Checked and Cleared	✓		
Check/Add Water Conditioner <u>24gal</u>	✓		15/35
Calibrate LEL			✓

	N/A	Field Data
Effluent Totalizer (gal) <u>10:01</u>		0451158
Effluent Flow Rate (gpm)		6.8
Aeration Pressure (psi) <u>MKO</u>	MKO	0.85
Bag Filter INFL Pressure (psi) #1		2.5
Bag Filter EFFL Pressure (psi)	MKO	0
Carbon Vessel #1 Pressure (psi)		12.5
Carbon Vessel #2 Pressure (psi)		7
Air Compressor ^{Vacuum} Pressure (psi) _{in W.C}	MKO	18
Hour Meter (hours)	✓	

System shutdown to await carbon changeout.

SYSTEM SAMPLING

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissovied O ₂ (ppm)				
Electrical Conductivity				

FIO Readings
 1st INF N/A
 1st EFF N/A
 2nd EFF 90

WELL READINGS

Well # MWS Well # W1 Well # W2 Well # AUX

Flow Totalizer (gpm)	MWS 49685.1	121854	232.44	108023
Flow Rate (gpm)	3.95	4.25	OFF	N/A
Hour Meter (hours)	—	—	—	—
DTW from TOC (ft)	—	—	—	—

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

TES/1127 Lincoln, Alameda
Site Address

Sampled By: Mark Czipsa

Date: 9/28/94

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational		✓	
2nd Contain. Float Switch Working			✓
Adjust Flow Rate			✓
Filter Checked and Cleaned			✓
Strainer Checked and Cleaned			✓
Check/Add Water Conditioner			✓
Calibrate LEL			✓

	N/A	Field Data
Effluent Totalizer (gal)		0451345
Effluent Flow Rate (gpm)	✓	
Aeration Pressure (psi)	✓	
Bag Filter INFL Pressure (psi)	✓	
Bag Filter EFFL Pressure (psi)	✓	
Carbon Vessel #1 Pressure (psi)	✓	
Carbon Vessel #2 Pressure (psi)	✓	
Air Compressor Pressure (psi)	✓	
Hour Meter (hours)	✓	

SYSTEM SAMPLING

	Sample Point	Sample Point	Sample Point	Sample Point
Temperature (F)				
pH (units)				
Dissolved O ₂ (ppm)				
Electrical Conductivity				

WELL READINGS

	Well # <u>MW5</u>	Well # <u>W1</u>	Well # <u>W1</u>	Well # <u>AUX</u>
Flow Totalizer (gpm)	213392	121902	242.8	108134
Flow Rate (gpm)				
Hour Meter (hours)				
DTW from TOC (ft)				

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

1127 Lincoln, Alameda

Site Address

Sampled By: Mark Czupka

Date: 10/5/94

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational <u>Restarted</u>	✓		
2nd Contain. Float Switch Working	✓		
Adjust Flow Rate		✓	
Filter Checked and Cleaned	✓		
Strainer Checked and Cleaned	✓		
Check/Adjust Water Conditioner	✓		
Calibrate LEL			✓

	N/A	Field Data
Effluent Totalizer (gal)		0451370
Effluent Flow Rate (gpm)		7.2
Aeration Pressure (psi)	✓	
Bag Filter INFL Pressure (psi)		∅
Bag Filter EFFL Pressure (psi)	✓	
Carbon Vessel #1 Pressure (psi)		15
Carbon Vessel #2 Pressure (psi)		5
Air Compressor Pressure (psi)		MKO ∅
Hour Meter (hours)	✓	

Vapor Extractor 18 "W.C.

SYSTEM SAMPLING

	Sample Point <u>A INF</u>	Sample Point <u>A INF</u>	Sample Point <u>B-BT-1</u>	Sample Point <u>C-EFF</u>
Temperature (F)	<u>Not Req'd</u>	_____	_____	_____
pH (units)	↓			
Dissolved O ₂ (ppm)				
Electrical Conductivity	↓			

WELL READINGS

Well # MW5 Well # W1 Well # W2 Well # AUX

Flow Totalizer (gpm)	213402	121911	242.8	108144
Flow Rate (gpm)	4.38	4.33	N/A OFF	N/A
Hour Meter (hours)				
DTW from TOC (ft)				

**SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

1127 Lincoln, Alameda
Site Address

Sampled By: Mark N Czupka

Date: 11/3/94

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	✓	→ Turned Off	
2nd Contain. Float Switch Working	✓		
Adjust Flow Rate		✓	
Filter Checked and Cleaned	✓		
Strainer Checked and Cleaned	✓		
Check/Add Water Conditioner		✓	
Calibrate LEL			✓

	N/A	Field Data
Effluent Totalizer (gal)		0543253
Effluent Flow Rate (gpm)		6.2
Aeration Pressure (psi)	✓	
Bag Filter INFL Pressure (psi)		
Bag Filter EFFL Pressure (psi)	✓	
Carbon Vessel #1 Pressure (psi)		19
Carbon Vessel #2 Pressure (psi)		12.5
Air Compressor Pressure (psi)		MKO
Hour Meter (hours)	✓	

Vapor Extraction 12" H₂O
Air Velocity 4400 fpm in 2" PVC

SYSTEM SAMPLING

Water Samples collected
INF, AINF, B-DT-1, C EFF

	Sample Point INF TO 1ST	Sample Point INF TO 2ND	Sample Point INF TO 3RD	Sample Point EFF
Temperature (F) FID	500	375	300	125
pH (units) FID w/Carbon	3	3	3	4
Dissolved O ₂ (ppm) Adjusted	497 ppm	372 ppm	297 ppm	121 ppm
Electrical Conductivity °F	69°F	71°F	74°F	105°F

* Shut System off *

WELL READINGS

	Well # <u>MW5</u>	Well # <u>W1</u>	Well # <u>W2</u>	Well # <u>AUX</u>
Flow Totalizer (gpm)	245903	13534.6	N/A	N/A
Flow Rate (gpm)	3.53	3.65	N/A	N/A
Hour Meter (hours)				
DTW from TOC (ft)				

101 Western Avenue
 Alameda, CA 91201
 415/247-5737
 Fax: 415/247-9797

LOG NO: G94-10-072

Received: 06 OCT 94

Mailed: OCT 19 1994

Mr. Brian Garber
 Groundwater Technology, Inc.
 1401 Halyard Drive, Suite 140
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 1

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	ANALYTICAL DATA						
			Date Analyzed Date	Dilution Factor Times 1	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylenes Isomers ug/L
RDL				1	50	0.5	0.5	0.5	0.5
1*THF	10/05/94	10/13/94		1	1500	320	120	7.8	150
2*A-THF	10/05/94	10/13/94		1	79	12	4.7	2.2	7.2
3*B-B1-1	10/05/94	10/13/94		1	<50	2.6	1.1	<0.5	1.6
4*C-EFF	10/05/94	10/13/94		1	<50	0.70	<0.5	<0.5	<0.5

Karen Petryna
 1127 Lincoln Avenue, Alameda
 Alameda County

Mark A. Valentini, PhD
 Mark A. Valentini, PhD, Laboratory Director



MPLFS...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP. BATCH..	ID.NO
10072*1	INF	GAS.BTX.TESNC	10.13.94	8015M.TX	516-20	948013 7935
10072*2	A-INF	GAS.BTX.TESNC	10.13.94	8015M.TX	516-20	948013 7935
10072*3	B-BT-1	GAS.BTX.TESNC	10.13.94	8015M.TX	516-20	948013 7935
10072*4	C-EFF	GAS.BTX.TESNC	10.13.94	8015M.TX	516-20	948013 7935

**

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.
 ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR G9410072

DATE REPORTED : 10/18/94

Page 1

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
TPH-gas/BTEX (CADHS/80 C4101149*1)						
Date Analyzed	10.14.94	948013	10/13/94	10/13/94	Date	N/A
Benzene	10.14.94	948013	23.2	19.6	ug/L	118
Toluene	10.14.94	948013	60.8	57.0	ug/L	107
Ethylbenzene	10.14.94	948013	16.6	13.9	ug/L	119 Q
Total Xylene Isomers	10.14.94	948013	80.2	67.3	ug/L	119
TPH (as Gasoline)	10.14.94	948013	1180	1000	ug/L	118

BC ANALYTICAL

ORDER QC REPORT FOR G9410072

Page 1

DATE REPORTED : 10/18/94

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
TPH-gas/BTEX (CADHS/80 9410100*4)							
Date Analyzed		10.14.94	948013	10/13/94	10/13/94	Date	N/A
Benzene		10.14.94	948013	22.2	23.3	ug/L	5
Toluene		10.14.94	948013	59.3	62.7	ug/L	6
Ethylbenzene		10.14.94	948013	16.4	17.6	ug/L	7
Total Xylene Isomers		10.14.94	948013	77.9	81.9	ug/L	5
TPH (as Gasoline)		10.14.94	948013	1100	1130	ug/L	3

BC ANALYTICAL

ORDER QC REPORT FOR G9410072

Page 1

DATE REPORTED : 10/18/94

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
. TPH-gas/BTEX (CADHS/80 9410100*4							
Benzene		10.14.94	948013	113	119	19.6	ug/L
Toluene		10.14.94	948013	104	110	57.0	ug/L
Ethylbenzene		10.14.94	948013	118	127 Q	13.9	ug/L
Total Xylene Isomers		10.14.94	948013	116	122	67.3	ug/L
TPH (as Gasoline)		10.14.94	948013	110	113	1000	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9410072

DATE REPORTED : 10/18/94

Page 1

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
TPH-gas/BTEX (CADHS/80 B410865*1)						
Date Analyzed	10.13.94	948013	10/13/94	NA	Date	8015M.TX
Benzene	10.13.94	948013	0.10	0.5	ug/L	8015M.TX
Toluene	10.13.94	948013	0.32	0.5	ug/L	8015M.TX
Ethylbenzene	10.13.94	948013	0	0.5	ug/L	8015M.TX
Total Xylene Isomers	10.13.94	948013	0.21	0.5	ug/L	8015M.TX
TPH (as Gasoline)	10.13.94	948013	17	50	ug/L	8015M.TX

SURROGATE RECOVERIES :
BC ANALYTICAL : GLEN LAB : 10:45:36 18 OCT 1994 - P. 1 :

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ETK	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
	410072*1						
	015M.TXa,a,a-Trifluorotoluene	948013	10/13/94	54.3	50.0	109	
	410072*2						
	015M.TXa,a,a-Trifluorotoluene	948013	10/13/94	50.9	50.0	102	
	410072*3						
	015M.TXa,a,a-Trifluorotoluene	948013	10/13/94	52.0	50.0	104	
	410072*4						
	015M.TXa,a,a-Trifluorotoluene	948013	10/13/94	52.4	50.0	105	

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 10:45:38 18 OCT 1994 - P. 1 :

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TH(  ANALYTE                BATCH   ANALYZED REPORTED   TRUE %REC FLAG
-----
10100*4*R1
015M.TXa,a,a-Trifluorotoluene  948013  10/14/94   53.8   50.0  108
10100*4*S1
015M.TXa,a,a-Trifluorotoluene  948013  10/14/94   57.8   50.0  116
10100*4*S2
015M.TXa,a,a-Trifluorotoluene  948013  10/13/94   58.0   50.0  116
10100*4*T
015M.TXa,a,a-Trifluorotoluene  948013  10/13/94   50.0   50.0  100
10865*1*MB
015M.TXa,a,a-Trifluorotoluene  948013  10/13/94   52.5   50.0  105
101149*1*LC
015M.TXa,a,a-Trifluorotoluene  948013  10/14/94   57.8   50.0  116
101149*1*LT
015M.TXa,a,a-Trifluorotoluene  948013  10/13/94   50.0   50.0  100

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CHAIN OF CUSTODY RECORD

1127 Lincoln, Alameda

BCA Log Number CF14-12-06

Client name Ground Water Technology Inc.	Project or PON 020700006, 051005
Address 1401 Halcyon St 140	Phone # (916) 372-4700
City, State, Zip West Sacramento, CA	Report attention Brian Garber

Lab Sample number	Date sampled	Time sampled	Type See key below	Sampled by Mark Czypka	Number of containers	Analyses required										Remarks P3 1 of 1				
						<div style="display: flex; justify-content: space-between; align-items: center;"> BTEX, TPH, CS, GAS Hazardous samples Special handling required </div>														
	10/5/94	12:20	GW	INF	2	X														
		12:22		A-INF	2	X														
		12:24		B-BT-1	2	X														
		12:27		C-EFF	2	X														

Signature	Print Name	Company	Date	Time
	Mark M Czypka	Ground Water Technology, Inc	10/5/94	18:15
	Chris McCormick	GTI	10/5/94	18:15
	Chris McCormick	Groundwater Technology	10/6/94	8:17
	Jan Winter	BCA	10/6/94	8:17
Relinquished by				
Received by Laboratory				

B C ANALYTICAL
 11085 Shary Circle Concord CA 94518 (510) 825-3894
 11401 Western Avenue Glendale, CA 91201 (818) 247-5737
 11200 Gene Aulry Way Anaheim CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

*KEY: AG—Aqueous NA—Nonaqueous SL—Sludge
 GW—Groundwater SO—Soil PE—Petroleum

Disposal arrangements: _____

301 Western Avenue
 Alameda, CA 91201
 415/247-5737
 fax: 415/247-9797

LOG NO: G94-11-059

Received: 03 NOV 94

Mailed: NOV 21 1994

Mr. Brian Garber
 Groundwater Technology, Inc.
 1401 Halyard Drive, Suite 140
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 1

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	Date Analyzed Date	Dilution Factor Times	TPH-g	Benzene	Toluene	Ethyl-Benzene	Total Xylenes
					ug/L	ug/L	ug/L	ug/L	ug/L
RDL				1		0.5	0.5	0.5	0.5
1*INF	11/03/94	11/16/94		1	990	130	23	9.9	170
2*A-INF	11/03/94	11/17/94		1	100	15	4.8	1.1	15
3*B-BT-1	11/03/94	11/16/94		1	<50	2.2	0.84	<0.5	2.1
4*C-EFF	11/03/94	11/15/94		1	<50	<0.5	1.2	<0.5	<0.5

Karen Petryna
 1127 Lincoln Avenue, Alameda
 Alameda County

Mark A. Valentini
 Mark A. Valentini, PhD, Laboratory Director



: ORDER PLACED FOR CLIENT: Groundwater Technology, Inc. 9411059 :
: BC ANALYTICAL : GLEN LAB : 18:24:24 19 NOV 1994 - P. 1 :
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SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9411059*1	INF	GAS.BTX.TESNC	11.16.94	8015M.TX	516-20	948036	8607
9411059*2	A-INF	GAS.BTX.TESNC	11.17.94	8015M.TX	516-20	948037	8607
9411059*3	B-BT-1	GAS.BTX.TESNC	11.16.94	8015M.TX	516-20	948036	8607
9411059*4	C-EFF	GAS.BTX.TESNC	11.15.94	8015M.TX	516-24	947102	8523

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

BC ANALYTICAL

ORDER QC REPORT FOR G9411059

DATE REPORTED : 11/19/94

Page 1

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. TPH-gas/BTEX (CADHS/80 C4111891*1)						
Date Analyzed	11.16.94	948036	11/16/94	11/16/94	Date	N/A
Benzene	11.16.94	948036	24.3	19.6	ug/L	124
Toluene	11.16.94	948036	62.5	57.0	ug/L	110
Ethylbenzene	11.16.94	948036	16.2	13.9	ug/L	117 Q
Total Xylene Isomers	11.16.94	948036	76.7	57.3	ug/L	134 Q
2. TPH-gas/BTEX (CADHS/80 C4112154*1)						
Date Analyzed	11.18.94	948037	11/18/94	11/17/94	Date	N/A
Benzene	11.18.94	948037	24.2	19.6	ug/L	123
Toluene	11.18.94	948037	64.1	57.0	ug/L	112
Ethylbenzene	11.18.94	948037	17.8	13.9	ug/L	128 Q
Total Xylene Isomers	11.18.94	948037	80.9	67.3	ug/L	120
TPH (as Gasoline)	11.18.94	948037	871	1000	ug/L	87
3. TPH-gas/BTEX (CADHS/80 C4111887*1)						
Date Analyzed	11.15.94	947102	11/15/94	11/15/94	Date	N/A
Benzene	11.15.94	947102	20.7	19.6	ug/L	106
Toluene	11.15.94	947102	57.8	57.0	ug/L	101
Ethylbenzene	11.15.94	947102	14.5	13.9	ug/L	104
Total Xylene Isomers	11.15.94	947102	71.3	67.3	ug/L	106
TPH (as Gasoline)	11.15.94	947102	1260	1000	ug/L	126

BC ANALYTICAL

ORDER QC REPORT FOR G9411059

DATE REPORTED : 11/19/94

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MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. TPH-gas/BTEX (CADHS/80 9411063*2)							
Date Analyzed		11.16.94	948036	11/16/94	11/16/94	Date	N/A
Benzene		11.16.94	948036	22.5	21.0	ug/L	7
Toluene		11.16.94	948036	59.4	55.7	ug/L	6 ²
Ethylbenzene		11.16.94	948036	16.3	15.8	ug/L	3
Total Xylene Isomers		11.16.94	948036	78.3	73.6	ug/L	6
TPH (as Gasoline)		11.16.94	948036	1220	1120	ug/L	9
2. TPH-gas/BTEX (CADHS/80 9411156*3)							
Date Analyzed		11.17.94	948037	11/17/94	11/17/94	Date	N/A
Benzene		11.17.94	948037	19.9	21.5	ug/L	8
Toluene		11.17.94	948037	52.5	56.2	ug/L	7
Ethylbenzene		11.17.94	948037	14.6	15.0	ug/L	3
Total Xylene Isomers		11.17.94	948037	68.8	72.5	ug/L	5
TPH (as Gasoline)		11.17.94	948037	1140	1130	ug/L	1
3. TPH-gas/BTEX (CADHS/80 9411059*4)							
Date Analyzed		11.15.94	947102	11/15/94	11/15/94	Date	N/A
Benzene		11.15.94	947102	24.5	21.9	ug/L	11
Toluene		11.15.94	947102	64.2	58.3	ug/L	10
Ethylbenzene		11.15.94	947102	16.9	15.2	ug/L	11
Total Xylene Isomers		11.15.94	947102	82.1	75.4	ug/L	9
TPH (as Gasoline)		11.15.94	947102	1300	1300	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9411059

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MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. TPH-gas/BTEX (CADHS/80 9411063*2)							
Benzene		11.16.94	948036	115	107	19.6	ug/L
Toluene		11.16.94	948036	104	98	57.0	ug/L
Ethylbenzene		11.16.94	948036	117	114	13.9	ug/L
Total Xylene Isomers		11.16.94	948036	116	109	67.3	ug/L
TPH (as Gasoline)		11.16.94	948036	122	112	1000	ug/L
2. TPH-gas/BTEX (CADHS/80 9411156*3)							
Benzene		11.17.94	948037	102	110	19.6	ug/L
Toluene		11.17.94	948037	92	99	57.0	ug/L
Ethylbenzene		11.17.94	948037	105	108	13.9	ug/L
Total Xylene Isomers		11.17.94	948037	102	108	67.3	ug/L
TPH (as Gasoline)		11.17.94	948037	114	113	1000	ug/L
3. TPH-gas/BTEX (CADHS/80 9411059*4)							
Benzene		11.15.94	947102	125	112	19.6	ug/L
Toluene		11.15.94	947102	111	100	58.2	ug/L
Ethylbenzene		11.15.94	947102	122	109	13.9	ug/L
Total Xylene Isomers		11.15.94	947102	122	112	67.3	ug/L
TPH (as Gasoline)		11.15.94	947102	130	130	1000	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9411059

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METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL)
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	BLANK RESULT	RDL	UNIT	METHOD
1. TPH-gas/BTEX (CADHS/80 B4111512*1)						
Date Analyzed	11.16.94	948036	11/16/94	NA	Date	8015M.TX
Benzene	11.16.94	948036	0	0.5	ug/L	8015M.TX
Toluene	11.16.94	948036	0.33	0.5	ug/L	8015M.TX
Ethylbenzene	11.16.94	948036	0	0.5	ug/L	8015M.TX
Total Xylene Isomers	11.16.94	948036	0.081	0.5	ug/L	8015M.TX
TPH (as Gasoline)	11.16.94	948036	12	50	ug/L	8015M.TX
2. TPH-gas/BTEX (CADHS/80 B4111647*1)						
Date Analyzed	11.17.94	948037	11/17/94	NA	Date	8015M.TX
Benzene	11.17.94	948037	0.049	0.5	ug/L	8015M.TX
Toluene	11.17.94	948037	0.32	0.5	ug/L	8015M.TX
Ethylbenzene	11.17.94	948037	0	0.5	ug/L	8015M.TX
Total Xylene Isomers	11.17.94	948037	0.10	0.5	ug/L	8015M.TX
TPH (as Gasoline)	11.17.94	948037	9.4	50	ug/L	8015M.TX
3. TPH-gas/BTEX (CADHS/80 B4111508*1)						
Date Analyzed	11.15.94	947102	11/15/94	NA	Date	8015M.TX
Benzene	11.15.94	947102	0.052	0.5	ug/L	8015M.TX
Toluene	11.15.94	947102	0.37	0.5	ug/L	8015M.TX
Ethylbenzene	11.15.94	947102	0	0.5	ug/L	8015M.TX
Total Xylene Isomers	11.15.94	947102	0.53	0.5	ug/L	8015M.TX
TPH (as Gasoline)	11.15.94	947102	12	50	ug/L	8015M.TX

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 18:25:04 19 NOV 1994 - P. 1 :
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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9411059*1							
8015M.TXa	,a,a-Trifluorotoluene	948036	11/16/94	58.0	50.0	116	
9411059*2							
8015M.TXa	,a,a-Trifluorotoluene	948037	11/17/94	56.0	50.0	112	
9411059*3							
8015M.TXa	,a,a-Trifluorotoluene	948036	11/16/94	56.1	50.0	112	
9411059*4							
8015M.TXa	,a,a-Trifluorotoluene	947102	11/15/94	64.7	50.0	129	

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 18:25:07 19 NOV 1994 - P. 1 :
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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9411059*4*R1							
8015M.TXa,a,a-	Trifluorotoluene	947102	11/15/94	64.7	50.0	129	
9411059*4*S1							
8015M.TXa,a,a-	Trifluorotoluene	947102	11/15/94	49.8	50.0	100	
9411059*4*S2							
8015M.TXa,a,a-	Trifluorotoluene	947102	11/15/94	61.6	50.0	123	
9411059*4*T							
8015M.TXa,a,a-	Trifluorotoluene	947102	11/15/94	50.0	50.0	100	
9411063*2*R1							
8015M.TXa,a,a-	Trifluorotoluene	948036	11/16/94	56.6	50.0	113	
9411063*2*S1							
8015M.TXa,a,a-	Trifluorotoluene	948036	11/16/94	58.1	50.0	116	
9411063*2*S2							
8015M.TXa,a,a-	Trifluorotoluene	948036	11/16/94	57.3	50.0	115	
9411063*2*T							
8015M.TXa,a,a-	Trifluorotoluene	948036	11/16/94	50.0	50.0	100	
9411156*3*R1							
8015M.TXa,a,a-	Trifluorotoluene	948037	11/17/94	55.5	50.0	111	
9411156*3*S1							
8015M.TXa,a,a-	Trifluorotoluene	948037	11/17/94	58.5	50.0	117	
9411156*3*S2							
8015M.TXa,a,a-	Trifluorotoluene	948037	11/17/94	58.3	50.0	117	
9411156*3*T							
8015M.TXa,a,a-	Trifluorotoluene	948037	11/17/94	50.0	50.0	100	
B4111508*1*MB							
8015M.TXa,a,a-	Trifluorotoluene	947102	11/15/94	40.0	50.0	80	
B4111512*1*MB							
8015M.TXa,a,a-	Trifluorotoluene	948036	11/16/94	55.7	50.0	111	

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 18:25:07 19 NOV 1994 - P. 2 :
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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
B4111647*1*MB							
8015M.TXa	a,a-Trifluorotoluene	948037	11/17/94	55.4	50.0	111	
C4111887*1*LC							
8015M.TXa	a,a-Trifluorotoluene	947102	11/15/94	61.8	50.0	124	
C4111887*1*LT							
8015M.TXa	a,a-Trifluorotoluene	947102	11/15/94	50.0	50.0	100	
C4111891*1*LC							
8015M.TXa	a,a-Trifluorotoluene	948036	11/16/94	59.9	50.0	120	
C4111891*1*LT							
8015M.TXa	a,a-Trifluorotoluene	948036	11/16/94	50.0	50.0	100	
C4112154*1*LC							
8015M.TXa	a,a-Trifluorotoluene	948037	11/18/94	60.8	50.0	122	
C4112154*1*LT							
8015M.TXa	a,a-Trifluorotoluene	948037	11/18/94	50.0	50.0	100	

Client name: **Ground Water Technology Inc**
 Address: **1401 Halyard Ste 140**
 City, State, Zip: **West Sacramento, CA**
 Project or PO#: **020700006, 05/005**
 Phone #: **(916) 372-4700**
 Report attention: **Brian Garber**

Analyses required									
BTEX, TPH, Vol Gas									
Hazardous sample Special handling required									
Remarks: P5 lot 1									

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by	Number of containers	Analyses required										Remarks		
				Sample description														
	11/3/94	14:40	GW	Mark Czipsz	2	X												
	↓	14:42	↓	A - INF	2	X												↓ P5 w/ HCL
	↓	14:44	↓	B - BT-1	2	X												
	↓	14:46	↓	C - EFF	2	X												
	11/3/94	15:16	OT	INF	1	X												↓ 1/2 Teller bag
	↓	15:17	↓	INF TO 2nd Carbon	1	X												
	↓	15:18	↓	EFF	1	X												

Signature	Print Name	Company	Date	Time
Relinquished by: <i>Mark Czipsz</i>	Mark Czipsz	Ground Water Technology, Inc.	11/3/94	6:00 pm
Received by: <i>Jan Winters</i>	Jan Winters	BUN	11/3/94	6:00 pm
Relinquished by:				
Received by:				
Relinquished by:				
Received by Laboratory:				

B C ANALYTICAL
 1085 Shary Circle Concord CA 94518 (510) 825-3894
 1801 Western Avenue Glendale CA 91201 (818) 247-5737
 1200 Gene Autry Way, Anaheim CA 92805 (714) 978-0113

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
 Hazardous samples will be returned to client or disposed of at client's expense.
 Disposal arrangements: _____

*KEY: AG—Aqueous NA—Nonaqueous SL—Sludge
 GW—Groundwater SO—Soil PE—Petroleum