



STUD 3566 JUL 25

July 30, 1996

ENV - STUDIES, SURVEYS & REPORTS

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

ENVIRONMENTAL
PROTECTION
96 AUG 20 PM 1:44

Mr. Raymond Maxwell
East Bay Municipal Utility District
Source Control Division, M.S. 702
P.O. Box 24055,
375 11th Street,
Oakland, California 94623

Dear Mr. Maxwell:

Enclosed is the *Semi-Annual Self-Monitoring Report Summary* for the subject site.

Regarding the above-referenced report,

I certify under penalty of law that, to the best of my knowledge, 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,
Texaco Refining and Marketing, Inc.

Karen E. Petryna, P.E.
Project Manager
Environment Health & Safety

KEP eg
P:\COVERS KLPCVRS 1127ASMR.CVR

Enclosure

cc: Mr. Thomas Peacock
Alameda County
Hazardous Materials
1131 Harbor Bay Pky
Alameda, CA 94502-6577

Mr. Tim Ross
Kaprealian Engineering Inc
2401 Stanwell Dr., Suite 400
Concord, CA 94520

RRZielinski (w/o enclosure)RAOFile-UCPFile(w/ enclosure)

PR 

**FORMER TEXACO SERVICE STATION
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA**

PERMIT INFORMATION

- EBMUD Permit Number: 502-74621
- Sampling Frequency: Quarterly
- Parameters Reported: TPH-g & BTEX
- Reporting Period: 12/1/95 - 6/30/96
- Report Due: 7/31/96

PERMITTEE

Texaco Refining & Marketing, Inc.
108 Cutting Boulevard
Richmond, CA 94804

Contact: Karen E. Petryna, P.E.
Phone: (510) 236-9139

CONSULTANT

Kaprealian Engineering, Inc.
2401 Stanwell Drive, Suite 400
Concord, CA 94520

Contact: Sarkis A. Soghomonian
Phone: (510) 602-5100

**FORMER TEXACO SERVICE STATION
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA**

GROUND WATER DISCHARGE DATA

Sample I.D.	Sample Date	Flow Rate (gpm)	Totalizer Readings (gallons)	Cumulative Volume (gallons)
Effluent	6/10/96	6.50	2,161,632	1,710,474
	4/9/96	N/A	NM	NM
	4/2/96	5.40	2,106,830	1,655,672
	3/13/96	6.80	2,077,696	1,626,538
	2/14/96	7.20	2,022,587	1,571,429
	1/2/96	7.10	1,882,521	1,431,363
	12/6/95	7.10	1,776,877	1,325,719
MW-5	6/10/96	NM	207,654	552,207
	4/9/96	N/A	NM	NM
	4/2/96	1.70	177,495	522,048
	3/13/96	1.48	161,468	506,021
	2/14/96	3.20	130,892	475,445
	1/2/96	3.65	80,097	424,650
	12/6/95	3.94	45,143	389,696
W-1	6/10/96	NM	128,340	182,578
	4/9/96	N/A	NM	NM
	4/2/96	4.13	118,902	173,140
	3/13/96	5.36	104,498	158,736
	2/14/96	5.50	87,490	141,728
	1/2/96	4.43	54,565	108,803
	12/6/95	4.01	30,965	85,203
W-2	6/10/96	Cycled Off	NM	NM
	4/9/96	Cycled Off	NM	NM
	4/2/96	Cycled Off	183,505	722,786
	3/13/96	Cycled Off	182,524	721,805
	2/14/96	Cycled Off	170,894	710,175
	1/2/96	Cycled Off	104,998	644,279
	12/6/95	Cycled Off	58,002	597,283

FLOW RATE FOR THIS REPORTING PERIOD: 5.73 gpm

TOTAL VOLUME OF GROUND WATER
DISCHARGED DURING THIS REPORTING PERIOD: 384,755 gallons

**FORMER TEXACO SERVICE STATION
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA**

GROUND WATER SAMPLING RESULTS

Sample I.D.	Sample Date	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)
Influent	6/10/96	NS	NS	NS	NS	NS
	4/9/96	NS	NS	NS	NS	NS
	4/2/96	260	33	4.6	0.81	7.1
	3/13/96	1,300	260	66	8.9	100
	2/14/96	230	11	1.6	2.1	4
	1/2/96	360	19	2.4	6.5	15
	12/6/95	820	100	22	4.5	57
A - Carbon Inf.	6/10/96	NS	NS	NS	NS	NS
	4/9/96	< 50	< 0.5	< 0.5	< 0.5	< 1
	4/2/96	< 50	2.6	0.73	< 0.5	2.2
	3/13/96	71	12	3.3	0.60	4.8
	2/14/96	< 50	5.3	1.4	< 0.5	2.5
	1/2/96	55	5.1	1.2	0.84	2.9
	12/6/95	63	7.2	1.9	0.72	5.3
B - BT-1	6/10/96	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	4/9/96	< 50	< 0.5	< 0.5	< 0.5	< 1
	4/2/96	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	3/13/96	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	2/14/96	*	*	*	*	*
	1/2/96	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	12/6/95	< 50	< 0.5	< 0.5	< 0.5	< 0.5
C - Effluent	6/10/96	NS	NS	NS	NS	NS
	4/9/96	< 50	< 0.5	< 0.5	< 0.5	< 1
	4/2/96	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	3/13/96	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	2/14/96	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	1/2/96	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	12/6/95	< 50	< 0.5	< 0.5	< 0.5	< 0.5
DISCHARGE LIMITS		N/A	5	5	5	5

* = NOT ANALYZED. SAMPLE CONTAINER INADVERTENTLY BROKEN.

TPH-g = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

(ug/L) = MICROGRAMS PER LITER

< () = BELOW DETECTION LIMIT

gpm = GALLONS PER MINUTE

NM = NOT MEASURED

N/A = NOT APPLICABLE

NS = NOT SAMPLED

FIELD DATA SHEETS

FORMER TEXACO/CURRENT EXXON
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

NAME	J. Giddings
DATE	8-25-96
TIME	16:30

GROUND WATER EXTRACTION SYSTEM

- | | |
|---|---|
| 1. <input type="checkbox"/> UPON ARRIVAL, SYSTEM WAS | ON / OFF |
| 2. <input checked="" type="checkbox"/> SECONDARY CONTAIN. FLOAT OPERATIONAL | <input checked="" type="radio"/> YES / <input type="radio"/> NO |
| 3. <input checked="" type="checkbox"/> EFFLUENT TOTALIZER | <input type="text" value="7180029"/> GALLONS |
| WELL MW-5 TOTALIZER | <input type="text" value="814744"/> GALLONS |
| WELL W-1 TOTALIZER | <input type="text" value="N/A"/> GALLONS |
| WELL W-2 TOTALIZER | <input type="text" value="101777"/> GALLONS |
| 4. <input checked="" type="checkbox"/> EFFLUENT FLOW RATE | <input type="text" value="6.5"/> GPM |
| 5. <input type="checkbox"/> AERATION PRESSURE | <input type="text" value="2"/> PSI |
| 6. <input type="checkbox"/> FILTER INFL PRESSURE | <input type="text" value="8"/> PSI |
| 7. <input checked="" type="checkbox"/> CARBON VESSEL #2 PRESSURE | <input type="text" value="N/A"/> PSI |
| 8. <input checked="" type="checkbox"/> SAMPLING CONDUCTED | YES / <input checked="" type="radio"/> NO |
| 9. <input checked="" type="checkbox"/> AT DEPARTURE, SYSTEM WAS | <input checked="" type="radio"/> ON / <input type="radio"/> OFF |

NOTES:

FORMER TEXACO/CURRENT EXXON
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

NAME	J. Giddings
DATE	8-18-96
TIME	19:30

GROUND WATER EXTRACTION SYSTEM

1. UPON ARRIVAL, SYSTEM WAS ON / OFF
2. SECONDARY CONTAIN. FLOAT OPERATIONAL YES / NO
3. EFFLUENT TOTALIZER GALLONS
WELL MW-5 TOTALIZER GALLONS
WELL W-1 TOTALIZER GALLONS
WELL W-2 TOTALIZER GALLONS
4. EFFLUENT FLOW RATE GPM
5. AERATION PRESSURE PSI
6. FILTER INFL PRESSURE PSI
7. CARBON VESSEL #2 PRESSURE PSI
8. SAMPLING CONDUCTED YES / NO
9. AT DEPARTURE, SYSTEM WAS ON / OFF

NOTES: * After back flushing.
System down due to "High Aeration Pressure" Tank level.
Back Flushed System

FORMER TEXACO/CURRENT EXXON
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

NAME	J. Giddens
DATE	06-10-96
TIME	17:00

GROUND WATER EXTRACTION SYSTEM

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> UPON ARRIVAL, SYSTEM WAS | ON / <input checked="" type="radio"/> OFF |
| 2. <input checked="" type="checkbox"/> SECONDARY CONTAIN. FLOAT OPERATIONAL | YES / <input checked="" type="radio"/> NO |
| 3. <input checked="" type="checkbox"/> EFFLUENT TOTALIZER | <input type="text" value="7161632"/> GALLONS |
| WELL MW-5 TOTALIZER | <input type="text" value="209654"/> GALLONS |
| WELL W-1 TOTALIZER | <input type="text" value="N/A"/> GALLONS |
| WELL W-2 TOTALIZER | <input type="text" value="178340"/> GALLONS |
| 4. <input checked="" type="checkbox"/> EFFLUENT FLOW RATE | <input type="text" value="6.5"/> GPM |
| 5. <input checked="" type="checkbox"/> AERATION PRESSURE | <input type="text" value="2"/> PSI |
| 6. <input checked="" type="checkbox"/> FILTER INFL PRESSURE | <input type="text" value="12"/> PSI |
| 7. <input checked="" type="checkbox"/> CARBON VESSEL #2 PRESSURE | <input type="text" value="N/A"/> PSI |
| 8. <input checked="" type="checkbox"/> SAMPLING CONDUCTED | YES / <input checked="" type="radio"/> NO |
| 9. <input checked="" type="checkbox"/> AT DEPARTURE, SYSTEM WAS | ON / <input checked="" type="radio"/> OFF |

NOTES: * Between Carbons only.
System down due to bio-fouling
on effluent: beds flushed system

FORMER TEXACO/CURRENT EXXON
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

NAME	J. Giddings
DATE	6-5-96
TIME	8:00

GROUND WATER EXTRACTION SYSTEM

- 1. UPON ARRIVAL, SYSTEM WAS ON OFF
- 2. SECONDARY CONTAIN. FLOAT OPERATIONAL YES / NO
- 3. EFFLUENT TOTALIZER 2145544 GALLONS
 - WELL MW-5 TOTALIZER 201234 GALLONS
 - WELL W-1 TOTALIZER N/A GALLONS
 - WELL W-2 TOTALIZER 125679 GALLONS
- 4. EFFLUENT FLOW RATE 5 GPM
- 5. AERATION PRESSURE 2 PSI
- 6. FILTER INFL PRESSURE 12 PSI
- 7. CARBON VESSEL #2 PRESSURE N/A PSI
- 8. SAMPLING CONDUCTED YES / NO
- 9. AT DEPARTURE, SYSTEM WAS ON / OFF

NOTES: Effluent discharge rate unable
to keep up w/ influent; back flushed
3x after

FORMER TEXACO/CURRENT EXXON
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

NAME	J. Giddins
DATE	2-30-96
TIME	10:15

GROUND WATER EXTRACTION SYSTEM

1. UPON ARRIVAL, SYSTEM WAS ON / OFF
2. SECONDARY CONTAIN. FLOAT OPERATIONAL YES / NO
3. EFFLUENT TOTALIZER
2147868 GALLONS
WELL MW-5 TOTALIZER 199967 GALLONS
WELL W-1 TOTALIZER N/A GALLONS
WELL W-2 TOTALIZER 175735 GALLONS
4. EFFLUENT FLOW RATE 6.5 GPM
5. AERATION PRESSURE 1 PSI
6. FILTER INFL PRESSURE 8 PSI
7. CARBON VESSEL #2 PRESSURE N/A PSI
8. SAMPLING CONDUCTED YES / NO
9. AT DEPARTURE, SYSTEM WAS ON / OFF

NOTES: Back flushed system: eff. rate
rose from 2 1/2 gpm to 6 1/2 gpm.

FORMER TEXACO/CURRENT EXXON
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

NAME	Giddings
DATE	5-15-96
TIME	15:45

GROUND WATER EXTRACTION SYSTEM

1. UPON ARRIVAL, SYSTEM WAS ON / OFF
2. SECONDARY CONTAIN. FLOAT OPERATIONAL YES / NO
3. EFFLUENT TOTALIZER GALLONS
- WELL MW-5 TOTALIZER GALLONS
- WELL W-1 TOTALIZER GALLONS
- WELL W-2 TOTALIZER GALLONS
4. EFFLUENT FLOW RATE GPM
5. AERATION PRESSURE PSI
6. FILTER INFL PRESSURE PSI
7. CARBON VESSEL #2 PRESSURE PSI
8. SAMPLING CONDUCTED YES / NO
9. AT DEPARTURE, SYSTEM WAS ON / OFF

NOTES:

Re-started system; System
down due to a carbon change out
vapor extraction system

FORMER TEXACO/CURRENT EXXON
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

NAME	John Giddens
DATE	5-7-96
TIME	11:30

GROUND WATER EXTRACTION SYSTEM

1. UPON ARRIVAL, SYSTEM WAS ON / OFF
2. SECONDARY CONTAIN. FLOAT OPERATIONAL YES / NO
3. EFFLUENT TOTALIZER GALLONS
WELL MW-5 TOTALIZER 199723 GALLONS
WELL W-1 TOTALIZER GALLONS
WELL W-2 TOTALIZER GALLONS
4. EFFLUENT FLOW RATE GPM
5. AERATION PRESSURE PSI
6. FILTER INFL PRESSURE PSI
7. CARBON VESSEL #2 PRESSURE PSI
8. SAMPLING CONDUCTED YES / NO
9. AT DEPARTURE, SYSTEM WAS ON / OFF

NOTES:

Totalizer not functioning.
System down due to aeration
tank float switch malfunction.

FORMER TEXACO/CURRENT EXXON
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

NAME	John Giddens
DATE	4-20-96
TIME	9:30

GROUND WATER EXTRACTION SYSTEM

- 1. UPON ARRIVAL, SYSTEM WAS ON / OFF
- 2. SECONDARY CONTAIN. FLOAT OPERATIONAL YES / NO
- 3. EFFLUENT TOTALIZER GALLONS
- WELL MW-5 TOTALIZER GALLONS
- WELL W-1 TOTALIZER GALLONS
- WELL W-2 TOTALIZER GALLONS
- 4. EFFLUENT FLOW RATE GPM
- 5. AERATION PRESSURE PSI
- 6. FILTER INFL PRESSURE PSI
- 7. CARBON VESSEL #2 PRESSURE PSI
- 8. SAMPLING CONDUCTED YES / NO
- 9. AT DEPARTURE, SYSTEM WAS ON / OFF

NOTES: * MW1 Totalizer not functioning

System was down for VES evaluation

FORMER TEXACO/CURRENT EXXON
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

NAME	John Dickler
DATE	4-23-96
TIME	9:00

GROUND WATER EXTRACTION SYSTEM

1. UPON ARRIVAL, SYSTEM WAS ON / OFF
2. SECONDARY CONTAIN. FLOAT OPERATIONAL YES / NO
3. EFFLUENT TOTALIZER GALLONS
 WELL MW-5 TOTALIZER GALLONS
 WELL W-1 TOTALIZER GALLONS
 WELL W-2 TOTALIZER GALLONS
4. EFFLUENT FLOW RATE GPM
5. AERATION PRESSURE PSI
6. FILTER INFL PRESSURE PSI
7. CARBON VESSEL #2 PRESSURE PSI
8. SAMPLING CONDUCTED YES / NO
9. AT DEPARTURE, SYSTEM WAS ON / OFF

NOTES: * MW1 Totalizer not functioning.
** No pressure gauge on vessel #2
*** Aeration Tank does not have pressure gauge.
Repaired leaks in MW5 inf. hose

COPY

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006-00

Technician: STEVEN STROM

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 4/02/96

Project Mgr: Brian Garber

Site Mgr:

PREPARATORY COMMENTS

Visit Date: 4-2-96 Arrival Time: 1138 Departure Time: 1458

Work Order read in office: N upon arrival: N upon departure: N

Called PM? Y/N Time: 1445 Who: DAVID LITTLE Topic: TRANSFER STATUS

Are You In Possession of a Site Safety Plan? N

COC: Complete with store #, site address & proj office address? N

Job # and task #

98

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

UPON DEPARTURE

UPON ARRIVAL

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006.00 Technician: *STEVEN STEEM*
 Site: Tex/1127 Lincoln Ave Alam Scheduled: 4/02/96
 Project Mgr: Brian Garber Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

9. Notify the project manager by phone if the following conditions exist at the site:

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	<i>X</i>
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O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Monthly]

1. Collect samples from four sampling locations. Collect 2 voa containers from the locations as shown on the map (refer to O&M binder).
 (A-INF Influent to system) (B-INF Influent to 1st carbon canister)
 (C-BT-1 Breakthrough of 1st carbon canister) (D-EFF Effluent from system)

- 2. Water samples are to be analyzed for BTEX/TPH-G.
- 3. Collect Air samples: for BTEX/TPH-G.
- 4. Fill out chain-of-custody manifest appropriately with the correct analyses requested as per O&M table in site O&M binder.
- 5. Samples will be sent to BC Analytical - (1085 Shary Circle, Concord (510) 825-3894), under the appropriate COC manifest.

EQUIPMENT NEEDED: Site safety plan and safety equipment, PID, Chain-of-Custody manifests, labels, 40ml VOAs.

TEXACO REPRESENTATIVE: Karen Petryna (510) 236-9139.

Hours Estimated	1.50	Hours Used	<i>1.25</i>
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FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y/N-If No, Explain _____

WASTE COMPLIANCE: # of Drums w/: Water _____, Soil _____, Empty _____, Other _____

DRUMS labeled? NA/Y/N Gen. Date: _____ Label Type: _____

SOIL pile? Y/N size: _____ cu.yds SITE LEFT CLEAN? Y/N

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00

Technician: STEVEN STREM

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 4/02/96

Project Mgr: Brian Garber


Site Mgr:

TECHNICIAN'S COMMENTS

- MET W/ KAPRILLIAN AND WENT OVER SITE STATUS FOR COMPLETE TRANSFER.
- NOTE: KAPRILLIAN (K) DID NOT HAVE STEEL TOE BOOTS, SAFETY GLASSES, HARD HAT AND DID NOT WANT TO SIGN SITE SAFETY PLAN AFTER I REVIEW THE PLAN WITH HIM.
- (K) DID NOT HAVE A FID AS CALLED OUT BY PERMIT AND THERE VELOCITY METER (PILOT TUBE) WAS NOT CALIBRATED AND WAS @ ITS NEEDLE WAS "STICKING"

Total Hours Estimated	2.00	Total Hours Used	1.25
Travel Time Estimated	1.00	Travel Time Used	.75

2.00


 Technician

PLUS $\frac{1}{2}$ 2.25 HRS FOR
 SITE TRANSFER WFO

CHAIN OF CUSTODY RECORD

BCA Log Number

Client name: GROUNDWATER TECHNOLOGIES
 Project or PO#: 022703006
 Address: 147 LINCOLN AVE ALHAMBRA
 Phone #: (916) 372 4700
 City, State, Zip: WILSON, CA 95169
 Report attention: BRIAN GARBER

Analysis required									
Hazardous sample Special handling required									
Remarks									

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by	Sample description	PRESERVATION		Number of containers
						ICE	INCL	
	4/2/96	1352	AG	STEVEN STREM	C-EFF	X	X	2
	4/2/96	1353	AG		B-BT-1	X	X	2
	4/2/96	1355	AG		A-INF	X	X	2
	4/2/96	1358	AG		INF	X	X	2
	4/2/96	1391	AIR		AIR - INF			1
	4/2/96	1392	AIR		AIR ^{INF} 2ND			1
	4/2/96	1394	AIR		AIR EFF			1

Signature	Print Name	Company	Date	Time
<i>[Signature]</i>	STEVEN STREM	GROUNDWATER TECHNOLOGIES	4-3-96	12:00
<i>[Signature]</i>	B. H. [unclear]	B.H. [unclear]	4-3-96	12:00
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory				

BC ANALYTICAL
 1053 City Circle, Concord, CA 95910 (925) 399-4
 1901 Woodin Avenue, Concord, CA 95910 (925) 573-7
 11230 Genevieve Way, Auburn, CA 95605 (916) 978-0113

Note: Samples are discarded 90 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

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00

Technician: STEVEN STASH

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 3/25/96

Project Mgr: Brian Garbar

Site Mgr:

PREPARATORY COMMENTS

Visit Date: 3-28-96 Arrival Time: 1525 Departure Time: 1825

Work Order read in office upon arrival upon departure:

Called PM? Time: 1610/1655 Who: DAVID ED Topic: MW. 5 P.M. SW-TANK w/ MW. 1

Are You In Possession of a Site Safety Plan?

COC: Complete with store #, site address & proj office address?

Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) | (site up) - (site down) *Approved*

SYSTEM STATUS = water I (inactive) + (site up) (site down) *DEREGULATED*

Logbook in blue container beneath trailer. Record activities in site log.

- Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
- Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change-out, and/or carbon back flush.
- At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
- At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
- At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
- Record all readings on the appropriate logs on site.
- At the inlet to the first air carbon canister measure the flow rate.
- On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006.00

Technician: *Steven Strom*

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 3/25/96

Project Mgr: Brian Garber

Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

g. Notify the project manager by phone if the following conditions exist at the site:

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	.5
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FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? N-If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water __, Soil __, Empty __, Other WATER TREATMENT

DRUMS labeled? N Gen. Date: _____ Label Type: _____

SOIL pile? N size: _____ cu.yds. SITE LEFT CLEAN? N

TECHNICIAN'S COMMENTS

MW-5 AND MW-2 REVERSED IN DIRECTION OF PIPING
MW-5 PUMP DOWN WILL FIX ON FRIDAY **DONE**

Total Hours Estimated	.50	Total Hours Used	.75
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Travel Time Estimated	1.00	Travel Time Used	1.00
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(49) .15

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

1127 LINCOLN AVE. ALAMEDA
Site Address

Sampled By: STEVEN STROM

Date: 3-28-96

SYSTEM CHECK / READINGS

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

4 GALLON LEFT

	N/A	Field Calc
Effluent Totalizer (gals)		2103046
Effluent Flow Rate (gpm)		5.9 gpm / 7.14 hr
Aeration Pressure (psi)		0.18
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		13 / 8.0
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y N X
 Monthly Ctry Semi-Ann Annual

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

* AFTER BACKFLUSH

WELL READINGS

	Well # <u>MW 5</u>	Well # <u>W-1</u>	Well # <u>W-2</u>	Well # _____
Flow Totalizer (gals)	175370	117796	182524	
Flow Rate (gpm)	1.25 STORM	4.94	OFF	
Hour Meter (hours)				
DTW from TOC (ft)				

COPY

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00

Technician: Chris McCormack

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 3/18/96

Project Mgr: Brian Garber

Site Mgr:

PREPARATORY COMMENTS

Visit Date: 3/19/96 Arrival Time: 11:00 Departure Time: 15:25

Work Order read in office: N upon arrival: N upon departure: N

Called PM? Y/N Time: 4 times Who: ES Topic: W-1/W-2 SWAP

Are You In Possession of a Site Safety Plan? N

COC: Complete with store #, site address & proj office address? Y/N

Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in ^{MAIL BOX} ~~blue container~~ beneath trailer. Record activities in site log.

- ✓ 1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
- ✓ 2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
- ✓ 3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
- ✓ 4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
- ✓ 5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
- ✓ 6. Record all readings on the appropriate logs on site.
- ✓ 7. At the inlet to the first air carbon canister measure the flow rate.
- ? 8. On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700005.00

Technician: O&M

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 3/18/96

Project Mgr: Brian Garber

Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

9. Notify the project manager by phone if the following conditions exist at the site:

a.) The system is not operational when you leave site.

b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.

c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated

.50

Hours Used

FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y N - If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water 1/2; Soil 0, Empty 1, Other 0

DRUMS labeled? NA/Y N Gen. Date: ? Label Type: ?

SOIL pile? Y N size: cu.yds. SITE LEFT CLEAN? Y N

TECHNICIAN'S COMMENTS

Attached

Total Hours Estimated

.50

Total Hours Used

Travel Time Estimated

1.00

Travel Time Used

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

1127 LINCOLN - Alameda

Site Address

Sampled By: Chris McCormack

Date: 3-19-96

SYSTEM CHECK / READINGS

If Applicable	Yes	No	N/A
Is System Operational	X		
2nd Contain. Float Switch Working			
Adjust Flow Rate			X
Filter Checked and Cleaned		X	
Strainer Checked and Cleaned	X ←	X	
Check/Add Water Conditioner	X	X	
Calibrate LEL		X	→ X
<u>75 GALLON Left</u>			

	N/A	Field Data
Effluent Totalizer (gals)		<u>2091196 @ 11:25</u>
Effluent Flow Rate (gpm)		<u>6 gpm - cycling</u>
Aeration Pressure (psi)	@ condenser tank	<u>→ 0.20</u>
Filter INFL Pressure (psi)		<u>10 @ 1.28 gpm</u>
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		<u>10</u>
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y N X

Monthly Qtrly Semi-Ann Annual

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

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 Well # _____

Flow Totalizer (gals)	<u>168375 @ 11:20</u>	<u>112057 @ 11:20</u>	<u>182524</u>	
Flow Rate (gpm)	<u>1.28 - steady</u>	<u>5.38 - cycling</u>	<u>OFF</u>	
Hour Meter (hours)				
DTW from TOC (ft)				

ATI 0624 O&M FORM WK3

↖ ↗ W-1 & W-2 Have been swapped

To: Ed Simonis@Sacramento@grdwtr
 Jason Fedota@Sacramento@grdwtr
 Cc: Mark Czipka@Concord@grdwtr
 Steve Strem@Concord@grdwtr
 Bcc:
 From: Chris McCormack@Concord@grdwtr
 Subject: 1127 Lincoln
 Date: Tuesday, March 19, 1996 20:44:58 PST
 Attach:
 Certify: N
 Forwarded by:

03-19-96 Arrive-11:00 Depart-15:30

Totalizer 03-19-96=2091196
 Totalizer 03-13-96=2077696

Ave. GPM=1.56

Transfere Pump is a LOWARA LPA 0513 Motor No. 75KM712
 115/230v 6/3.2A single phase 1/2hp 3400 RPM

At 10 PSI it pumps at 6 GPM, at 0 PSI it pumps at 10 GPM.

5 Gallons of GW 4040 left on-site.

MW-5=5.86' (DTW) Max flow 1.3 GPM, seems to run steady (not cycling) at about 1.3 to 1.1 GPM. Closing control valve lets the pump pressure up to >40 PSI.

Probably clogged impellers/intake.

W-2 (formerly labeled W-1, and refered to as W-1 on all previous data), Pump Cycles at 5+ GPM, well is drawn down to over 11' DTW.

W-1 (formerly labeled W-2, and refered to as W-2 on all previous data), Pump is getting clean power to the start components and well controller.

Switched start components with known operational well, W-1 still not working.

Car over well, cannot pull pump. Checked winding resistance:

Black-yellow= 6.9 Ohms

Black-red =33.9 Ohms

Red-yellow =27.6 Ohms

All start boxes are Franklin brand for 1/3 hp 230v pumps.

Mark: What do the winding resistance numbers mean? we think they are Gould pumps.

Ed/Jason:Mark thinks that along time ago in a galaxy far away the wells were switched at the Ceecon trailer by possibly Greg M? because of some problem??

Old notes may help??

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006.00
Site: Tex/1127 Lincoln Ave Alam
Project Mgr: Brian Garber

Technician: STEVEN SORBY
Scheduled: 3/11/96 3/13/96
Site Mgr:

PREPARATORY COMMENTS

Visit Date: 3-13-96 Arrival Time: 1518 Departure Time: 1700
Work Order read in office: /N upon arrival: /N upon departure: /N
Called PM? Y/N Time: 1650 Who: JASON/DAVID Topic: SYSTEM - EXTRA WORK - WELLS
Are You In Possession of a Site Safety Plan? /N
COC: Complete with store #, site address & proj office address? /N
Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00
 Site: Tex/1127 Lincoln Ave Alam
 Project Mgr: Brian Garber

Technician: STEVE STAM
 Scheduled: 3/11/96 3/13/96
 Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

9. Notify the project manager by phone if the following conditions exist at the site:

- The system is not operational when you leave site.
- If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	.5
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O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Monthly]

- Collect samples from four sampling locations. Collect 2 voa containers from the locations as shown on the map (refer to O&M binder).
 (A-INF Influent to system) (B-INF Influent to 1st carbon canister)
 (C-BT-1 Breakthrough of 1st carbon canister) (D-EFF Effluent from system)
- Water samples are to be analyzed for BTEX/TPH-G.
- Collect Air samples: for BTEX/TPH-G.
- Fill out chain-of-custody manifest appropriately with the correct analyses requested as per O&M table in site O&M binder.
- Samples will be sent to BC Analytical - (1085 Shary Circle, Concord (510) 825-3894), under the appropriate COC manifest.

EQUIPMENT NEEDED: Site safety plan and safety equipment, PID, Chain-of-Custody manifests, labels, 40ml VOAs.

TEXACO REPRESENTATIVE: Karen Petryna (510) 236-9139.

Hours Estimated	1.50	Hours Used	1.50
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FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y/ N-If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water___, Soil___, Empty___, Other___

DRUMS labeled? NA/ Y/ N Gen. Date: _____ Label Type: _____

SOIL pile? Y/ N size: _____ cu.yds. SITE LEFT CLEAN? Y/ N

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00

Technician:

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 3/11/96

Project Mgr: Brian Garber

Site Mgr:

TECHNICIAN'S COMMENTS

SAMPLED SYSTEM

REQUIRED SMALL DIAMETER I.P.

NEED 2ND MAN TO PULL PUMP

Total Hours Estimated

2.00

Total Hours Used

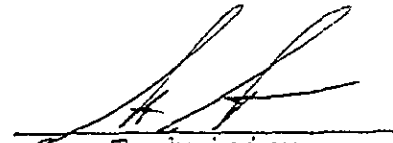
2.00

Travel Time Estimated

1.00

Travel Time Used

1.00


Technician

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

TES
1127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN STROM

Date: 3-13-96

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		2077696
Effluent Flow Rate (gpm)		6.8 / 7.2*
Aeration Pressure (psi)		.27
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		10.0 / 8.0*
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled (Y) X N
Monthly Qtrly Semi-Ann Annual

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

⊕ AFTER
BACKFLUSH

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 ^{OFF} Well # _____

Flow Totalizer (gals)	16468.	596104498 182524	
Flow Rate (gpm)	1.48	5.36	
Hour Meter (hours)			
DTW from TOC (ft)			

**SITE VISITATION FORM
FOR
VAPOR EXTRACTION SYSTEM SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

TES

1127 LINCOLN ALAMEDA

Site Address

Date: 3-13-96

Sampled By: STEVEN STREM

SAMPLE/MONITOR LOCATION	VACUUM	VELOCITY	FLOW	FID	FID WITH	ADJUSTED	LEL/O2	EFFICIENCY %
	(H2) OR (H2O)	(FPM)	ACFM		CARBON	CARBON		
WATER TRLR	—	1470	—	—	—	—	—	
LINE 1ST	48" @ 3"	2450	—	18.0	3.0	15.0	—	
LINE 2ND	—	—	—	16.0	2.5	13.5	—	
LINE 3RD	—	—	—	10.0	1.5	8.5	—	
EFF	—	2860	—	0.0	0.0	0.0	—	

IC ENGINE (ONLY)

Readings

Arrival Departure

- By Pass Setting
- Carb Setting
- System Vacuum
- CO
- NOX
- Propane Tank (lbs)
- Gas Meter Reading
- O2
- RPM

CATOX/RETOX / THERMAL OXIDIZER

Data Point Temperature

Propane Tanks

Lbs.

Gas

UNIT

Hour Meter

MOISTURE KNOCKOUT

3 Gals. Removed

SPARGE PUMP

ON OFF (N/A)

PSI- CFM-

REMARKS:

BACK FLUSH SYSTEM
SAMPLE AIR & WATER

7

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006.00
Site: Tex/1127 Lincoln Ave Alam
Project Mgr: Brian Garber

Technician: Steven Stuenkel
Scheduled: 3/04/96
Site Mgr:

PREPARATORY COMMENTS

Visit Date: 3-8-96 Arrival Time: 1355 Departure Time: 1448

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y/N Time: 1440 Who: DAVID LITTLE Topic: SYSTEM STATUS

Are You In Possession of a Site Safety Plan? Y/N

COC: Complete with store #, site address & proj office address? Y/N NA

Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.

2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.

3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.

4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.

5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.

6. Record all readings on the appropriate logs on site.

7. At the inlet to the first air carbon canister measure the flow rate.

8. On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00
 Site: Tex/1127 Lincoln Ave Alam
 Project Mgr: Brian Garber

Technician: *STEVEN STROM*
 Scheduled: 3/04/96
 Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

9. Notify the project manager by phone if the following conditions exist at the site:

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	
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FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y - If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water __, Soil __, Empty __, Other ^{2 - DRUMS} _{WATER TREATMENT} __

DRUMS labeled? NA/Y/N Gen. Date: _____ Label Type: _____

SOIL pile? Y/N size: _____ cu.yds. SITE LEFT CLEAN? Y/N

TECHNICIAN'S COMMENTS

BACK FLUSHED SYSTEM

DURING "CALL-IN" 4 POLICE ARRIVED ^{CARS} NEAR THE PHONE

BOTH WITH PISTOLS DRAWN - I BUGGED OUT OF

THERE AFTER QUICKLY CONCLUDING MY REPORT

Total Hours Estimated	.50	Total Hours Used	.75
Travel Time Estimated	1.00	Travel Time Used	1.75

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

1127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN STROM

Date: 3-8-96

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		2063943
Effluent Flow Rate (gpm)		6.8 / *7.2
Aeration Pressure (psi)		.3
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		10.0 / *8.0
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y N X
 Monthly Qtrly Semi-Ann Annual

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

* AFTER BACKFLUSH

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 ^{off} Well # _____

Flow Totalizer (gals)	152336	98818.8	182524	
Flow Rate (gpm)	2.63	4.51	—	
Hour Meter (hours)				
DTW from TOC (ft)				

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006-00 Technician: STEVEN STREM
Site: Tex/1127 Lincoln Ave Alam Scheduled: 2/28/96
Project Mgr: Brian Garber Site Mgr: 2/28/96

PREPARATORY COMMENTS

Visit Date: 2/28/96 Arrival Time: 1410 Departure Time: 1535

Work Order read in office: Y / N upon arrival: Y / N upon departure: Y / N

Called PM? Y/N Time: 1430 Who: Jason Topic: SYSTEM STATUS

Are You In Possession of a Site Safety Plan? Y / N

COC: Complete with store #, site address & proj office address? Y/N Y / N
Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + site up - (site down)

SYSTEM STATUS = Water I (inactive) + site up - (site down)

Logbook in ~~blue container~~ BLACK MAILBOX IN COMPOUND beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006.00
Site: Tex/1127 Lincoln Ave Alam
Project Mgr: Brian Garber

Technician: STEVEN SARM
Scheduled: 3/23/96 - 2-28-96
Site Mgr: ...

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

- 9. Notify the project manager by phone if the following conditions exist at the site:
 - a.) The system is not operational when you leave site.
 - b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
 - c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	<u>LE</u>
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O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Monthly]

1. Collect samples from four sampling locations. Collect 2 voa containers from the locations as shown on the map (refer to O&M binder).
(A-INF Influent to system) (B-INF Influent to 1st carbon canister)
(C-BT-1 Breakthrough of 1st carbon canister) (D-EFF Effluent from system)
2. Water samples are to be analyzed for BTEX/TPH-G.
3. Collect Air samples: for BTEX/TPH-G.
4. Fill out chain-of-custody manifest appropriately with the correct analyses requested as per O&M table in site O&M binder.
5. Samples will be sent to BC Analytical - (1885 Shary Circle, Concord (510) 825-3894), under the appropriate COC manifest.

EQUIPMENT NEEDED: Site safety plan and safety equipment, PID, Chain-of-Custody manifests, labels, 40ml VOAs.

TEXACO REPRESENTATIVE: Karen Petryna (510) 236-9139.

Hours Estimated	1.50	Hours Used	<u>[Signature]</u>
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FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? (Y) N-If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water___, Soil___, Empty___, Other Chem - 2

DRUMS labeled? N/A Gen. Date: _____ Label Type: _____

SOIL pile? (Y) size: _____ cu.yds. SITE LEFT CLEAN? (Y) N

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00

Technician: *STEVEN STROM*

Site: Tex/1127 Lincoln Ave Alam

Scheduled: *2/25/96*


Project Mgr: Brian Garber

Site Mgr:

TECHNICIAN'S COMMENTS

*HEAVY RAIN
WORKED ON AERATION TANK WATER LEVEL
SWITCHES*

Total Hours Estimated	2.00	Total Hours Used	<i>4.25</i>
Travel Time Estimated	1.00	Travel Time Used	<i>.75</i>



Technician

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

271 LINCOLN ALAMEM

Site Address

Sampled By: STEVEN S. COOM

Date: 2-28-96

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		204824
Effluent Flow Rate (gpm)		7.0
Aeration Pressure (psi)		.31
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		0.9
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y (N/A)
 Monthly Qtrly Semi-Annl Annual

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

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 Well # W-3

Flow Totalizer (gals)	141857	93075.0	182524	
Flow Rate (gpm)	2.20	3.3		
Hour Meter (hours)				
DTW from TOC (ft)				

**SITE VISITATION FORM
FOR
VAPOR EXTRACTION SYSTEM SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

1127 LINDEN ALA 35110
Site Address

Sampled By: STEVE SCRAM

Date: 2-28-96

SAMPLE/MONITOR LOCATION	VACUUM		VELOCITY	FLOW	FID	FID WITH	ADJUSTED	LEL/O2	EFFICIENCY %
	(HG)	OR (H2O)	(FPM)	ACFM		CARBON	CARBON		
Water Tap	—		1420	1420	6.0	—	—	—	
W/F 1 st	50 @ 3"		2850	2850	10.0	0	10.0	—	
W/F 2 nd	—		—	—	6.0	0	6.0	—	
W/F 3 rd	—		—	—	6.0	0	6.0	—	
EFF	—		3030	3030	0.0	0	0.0	—	

IC ENGINE (ONLY)

Readings

CATOX/RETOX / THERMAL OXIDIZER

	Arrival	Departure
By Pass Setting		
Carb Setting		
System Vacuum		
CO		
NOX		
Propane Tank (lbs)		
Gas Meter Reading		
O2		
RPM		

Data Point	Temperature

UNIT	Hour Meter

Propane Tanks	
Lbs.	Gas

MOISTURE KNOCKOUT
9 Gals. Removed

SPARGE PUMP
ON OFF N/A
PSI- CFM-

REMARKS: RAINY
WORKED ON HIGH AERATION SWITCH & WIRING
LOOKED LIKE A POSSIBLE SHORT IN WIRING—FIXED

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006.00
Site: Tex/1127 Lincoln Ave Alam
Project Mgr: Brian Garber

Technician: STEVEN Sider
Scheduled: 2/26/96
Site Mgr:

PREPARATORY COMMENTS

Visit Date: 2-23-96 Arrival Time: 1258 Departure Time: 1512

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y/N Time: 1509 Who: JASON Topic: SYSTEM START

Are You In Possession of a Site Safety Plan? Y/N

COC: Complete with store #, site address & proj office address? Y/N

Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006.00
Site: Tex/1127 Lincoln Ave Alam
Project Mgr: Brian Garber

Technician:
Scheduled: 2/26/96
Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

9. Notify the project manager by phone if the following conditions exist at the site:

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	.5
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O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Monthly]

1. Collect samples from four sampling locations. Collect 2 voa containers from the locations as shown on the map (refer to O&M binder).
(A-INF Influent to system) (B-INF Influent to 1st carbon canister)
(C-BT-1 Breakthrough of 1st carbon canister) (D-EFF Effluent from system)
2. Water samples are to be analyzed for BTEX/TPH-G.
3. Collect Air samples: for BTEX/TPH-G.
4. Fill out chain-of custody manifest appropriately with the correct analyses requested as per O&M table in site O&M binder.
5. Samples will be sent to BC Analytical - (1085 Shary Circle, Concord (510) 825-3894), under the appropriate COC manifest.

EQUIPMENT NEEDED: Site safety plan and safety equipment, PID, Chain-of-Custody manifests, labels, 40ml VOAs.

TEXACO REPRESENTATIVE: Karen Petryna (510) 236-9139.

Hours Estimated	1.50	Hours Used	
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FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y/N-If No, Explain _____

WASTE COMPLIANCE: # of Drums w/: Water____, Soil____, Empty____, Other____

DRUMS Labeled? NA/Y/N Gen. Date: _____ Label Type: _____

SOIL pile? Y/N size: _____ cu.yds. SITE LEFT CLEAN? Y/N

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California


Project: 20700006.00
 Site: Tex/1127 Lincoln Ave Alam
 Project Mgr: Brian Garber

Technician: STEVEN STROM
 Scheduled: ~~2/22/96~~ 2/23/96
 Site Mgr:

TECHNICIAN'S COMMENTS

RAINY
RE-SAMPLED WATER - LAB BROKE BOTTLES
BACK FLUSHED SYSTEM

Total Hours Estimated	2.00	Total Hours Used	<u>1.75</u>
Travel Time Estimated	1.00	Travel Time Used	<u>.75</u>


 Technician

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

1127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN STRAIN

Date: 2-23-96

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		2046 249
Effluent Flow Rate (gpm)		7.1
Aeration Pressure (psi)		0.3
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		8.0
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y N
 Monthly Qtrly Semi-Ann Annual

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

BACKFLOW
✓

WELL READINGS

	Well # <u>MW-5</u>	Well # <u>W-1</u>	Well # <u>W-2</u>	Well # _____
Flow Totalizer (gals)	140519	92648.5	181660	
Flow Rate (gpm)	2.10	3.2	—	
Hour Meter (hours)				
DTW (from TOC (ft))				

007

SITE VISIT FORM
Groundwater Technology, Inc. Concord, California

Project: 20700005-00 Technician: STEVEN STAM
Site: Tex/1127 Lincoln Ave Alam Scheduled: 2/12/96
Project Mgr: Brian Garber Site Mgr:

PREPARATORY COMMENTS

Visit Date: 2-14-96 Arrival Time: 1148 Departure Time: 1250
Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N
Called PM? Y/N Time: 1245 Who: Jason F Topic: SYSTEM STATUS
Are You In Possession of a Site Safety Plan? Y/N
COC: Complete with store #, site address & proj office address? Y/N
Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

- SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)
 - SYSTEM STATUS = Water I (inactive) + (site up) - (site down)
- Logbook in blue container beneath trailer. Record activities in site log.
1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
 2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
 3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
 4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
 5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
 6. Record all readings on the appropriate logs on site.
 7. At the inlet to the first air carbon canister measure the flow rate.
 8. On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006-00 Technician: Steve Szym
Site: Tex/1127, Lincoln Ave. Alam. Scheduled: 2/17/96
Project Mgr: Brian Garber Site Mgr: [Signature]

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

- 9. Notify the project manager by phone if the following conditions exist at the site:
 - a.) The system is not operational when you leave site.
 - b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
 - c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used
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O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Monthly]

- 1. Collect samples from four sampling locations. Collect 2 voa containers from the locations as shown on the map (refer to O&M binder).
(A-INF Influent to system) (B-INF Influent to 1st carbon canister)
(C-BT-1 Breakthrough of 1st carbon canister) (D-EFF Effluent from system)
- 2. Water samples are to be analyzed for BTEX/TPH-G.
- 3. Collect Air samples: for BTEX/TPH-G.
- 4. Fill out chain-of-custody manifest appropriately with the correct analyses requested as per O&M table in site O&M binder.
- 5. Samples will be sent to BC Analytical - (1085 Shary Circle, Concord (510) 825-3894), under the appropriate COC manifest.

EQUIPMENT NEEDED: Site safety plan and safety equipment, PID, Chain-of-Custody manifests, labels, 40ml VOAs.

TEXACO REPRESENTATIVE: Karen Petryna (510) 236-9139.

Hours Estimated	1.50	Hours Used
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FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y N - If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water __, Soil __, Empty __, Other __

DRUMS labeled? NA Y N Gen. Date: _____ Label Type: _____

SOIL pile? Y N size: _____ cu.yds. SITE LEFT CLEAN? Y N

CHAIN OF CUSTODY RECORD

BCA Log Number

Client name GROUNDWATER TECHNOLOGY			Project or PON. 020700006 051005		Analyses required					
Address 1401 HAWARD DR #140			City, State, Zip W. SACRAMENTO CA		Report attention BRIAN GABER					
Phone # (916) 372 4700			Sampled by STEVEN STREM		Number of containers					
Lab Sample number	Date sampled	Time sampled	Type See key below	Sample description						Remarks
	2-14-96	1201	AQ	C-EFF	2	X				
	2-14-96	1202	AQ	B-BT-1	2	X				
	2-14-96	1203	AQ	A-INF	2	X				
	2-14-96	1204	AQ	INF	2	X				
	2-14-96	1216	AIR	EFF-AIR	1	X				
	2-14-96	1218	AIR	INF-2 ND -AIR	1	X				
	2-14-96	1220	AIR	INF-AIR	1	X				

BTEX / TPH-G

Hazardous sample Special handling required

Signature	Print Name	Company	Date	Time
<i>[Signature]</i>	STEVEN STREM	GROUNDWATER TECH	2-14-96	1350
<i>[Signature]</i>	AMEEJA PAREKH	BLA	2-14-96	1355
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory				

- 1085 Shary Circle, Concord, CA 94518 (510) 825-1894
- 801 Western Avenue, Glendora, CA 91201 (818) 247-5737
- 1200 Gene Autry Way, Anaheim, CA 92805 (714) 878-0113

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: AQ—Aqueous NA—Nonaqueous SL—Sludge
GW—Groundwater SO—Soil PE—Petroleum
WW—Wastewater

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

127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN SPREM

Date: 2-14-96

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		2022587
Effluent Flow Rate (gpm)		7.2
Aeration Pressure (psi)		.3
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		8.5
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y N

Monthly Qtrly Semi-Ann Annual

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

* W-1 ON FOR ABOUT 20-25 SEC THEN OFF FOR 2MIN
- MW-5 ON FOR 35 SEC THEN OFF FOR 1.5MIN

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 Well # AUX OPC

TURNED BACK ON PER ED @ 1220

Flow Totalizer (gals)	130892	87489.7	170894	—
Flow Rate (gpm)	3.2	5.5 PPMC*		
Hour Meter (hours)				
DTW from TOC (ft)				

SITE VISIT FORM

Groundwater Technology, Inc. Concord, California

Project: 20700006.00

Technician: STEVEN SIMONIS

Site: Tex/1127 Lincoln Ave. Alam

Scheduled: 2/8/96

Project Mgr: Brian Garber


Site Mgr: 9

SPECIAL REQUEST - SYSTEM DOWN

TECHNICIAN'S COMMENTS

- BLAIN TECH TURNED ON W-2 AND ADJUSTED ALL WELLS TO PUMP AT "MAX FLOW" THEREFORE "HIGH AERATION^{TANK} SHUT DOWN" OCCURRED.
- CLEANED AERATION TANK WITH BRUSH AND BLEACH PER ED SIMONIS - BACK FLUSHED SYSTEM
- RESET SYSTEM - ADJUSTED FLOW

Total Hours Estimated	2.00	Total Hours Used	.75
Travel Time Estimated	1.00	Travel Time Used	.50



Technician

SITE VISIT FORM

Groundwater Technology, Inc. Concord, California

Project: 20700006-00

Technician: STEVEN STROM

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 2/8/96

Project Mgr: Brian Garber

Site Mgr: 8

PREPARATORY COMMENTS

Visit Date: 2-8-96 Arrival Time: 1440 Departure Time: 1559

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y/N Time: 1525 Who: ED SIMONIS Topic: SYSTEM SHUT DOWN

Are You In Possession of a Site Safety Plan? Y/N

COC: Complete with store #, site address & proj office address? Y/N

Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)
SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

- 1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006-00 Technician: *Steve Srem*
 Site: Tex/1127 Lincoln Ave Alam Scheduled: 2/19/96
 Project Mgr: Brian Garber Site Mgr: 8

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

9. Notify the project manager by phone if the following conditions exist at the site:

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	<i>0.75</i>
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~~O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Monthly]~~

1. Collect samples from four sampling locations. Collect 2 voa containers from the locations as shown on the map (refer to O&M binder).
 (A-INF Influent to system) (B-INF Influent to 1st carbon canister)
 (C-BT-1 Breakthrough of 1st carbon canister) (D-EFF Effluent from system)
2. Water samples are to be analyzed for BTEX/TPH-G.
3. Collect Air samples: for BTEX/TPH-G.
4. Fill out chain-of-custody manifest appropriately with the correct analyses requested as per O&M table in site O&M binder.
5. Samples will be sent to BC Analytical - (1085 Shary Circle, Concord (510) 825-3894), under the appropriate COC manifest.

~~EQUIPMENT NEEDED: Site safety plan and safety equipment, PID, Chain-of-Custody manifests, labels, 40ml VOAs.~~

~~TEXACO REPRESENTATIVE: Karen Petryna (510) 236-9139.~~

Hours Estimated	1.50	Hours Used	1.50
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FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y - If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water __, Soil __, Empty __, Other ^{- 2 ea} CARBON 30gm

DRUMS labeled? NA Y Gen. Date: _____ Label Type: _____

SOIL pile? Y N size: _____ cu.yds. SITE LEFT CLEAN? Y N

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 207.00006.00

Technician: STEVEN STROM

Site: Tex/1127, Lincoln Ave Alam

Scheduled: 2/20/96

Project Mgr: Brian Garber

Site Mgr: 8

TECHNICIAN'S COMMENTS

- BACK FLUSHED SYSTEM
- TURNOED W-2 WELL OFF
- CLEANED SITE
- IT WAS NOTED THAT IF WE COULD START THE TRANSFER PUMP FROM THE AERATION TANK COVER IT WOULD ALLOW MORE TIME TO EMPTY SO IT WOULD HAVE LESS TIME TO OVERFILL.

Total Hours Estimated

~~2.00~~
1.75

Total Hours Used

.75

Travel Time Estimated

1.00

Travel Time Used

1.0


Technician

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

1127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN STROM

Date: 2-8-96

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		2009219
Effluent Flow Rate (gpm)		7.2
Aeration Pressure (psi)		1.3
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		8.0
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	Y	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y (N)
 Monthly Qtrly Semi-Ann Annual

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

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 Well # Aux

TURNED OFF PER ED @ 1525

Flow Totalizer (gals)	122388	82334.4	170428	—
Flow Rate (gpm)	3.62	4.23	—	—
Hour Meter (hours)				
DTW from TOC (ft)				

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00

Technician: STEVE STREM

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 2/05/96

Project Mgr: Brian Garber

Site Mgr:

PREPARATORY COMMENTS

Visit Date: 2-2-96 Arrival Time: 1235 Departure Time: 1340

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y Time: 1335 Who: ASIN Topic: SYSTEM STATUS

Are You In Possession of a Site Safety Plan? Y/N

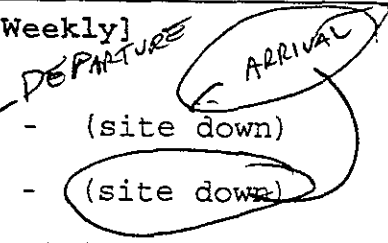
COC: Complete with store #, site address & proj office address? Y/N OK

Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)



Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.

RECEIVED

FEB 12 1996

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00

Technician: STEVEN STRON

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 2/05/96

Project Mgr: Brian Garber

Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

9. Notify the project manager by phone if the following conditions exist at the site:

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated

.50

Hours Used

FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y/N-If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water___, Soil___, Empty___, Other___

DRUMS labeled? NA Y/N Gen. Date:_____ Label Type:_____

SOIL pile? Y/N size:_____ cu.yds. SITE LEFT CLEAN? Y/N

TECHNICIAN'S COMMENTS

— CLEANED AERATION TANK 7.25

— BACK FLUSHED CARBON

— SLOWED DOWN FLOW FROM WELLS TO AERATION TANK

Total Hours Estimated

.50

Total Hours Used

7.75

Travel Time Estimated

1.00

Travel Time Used

1.00

SITE VISITATION FORM
 FOR
VAPOR EXTRACTION SYSTEM SAMPLING
SYSTEM OPERATION AND MAINTENANCE

Sampled By: SINEN STREM

1127 LINCOLN ALAMEDA
 Site Address

Date: 2-2-96

SAMPLE/MONITOR LOCATION	VACUUM		VELOCITY	FLOW	FID	FID WITH	ADJUSTED	LEL/O2
	(HG)	OR (H2O)	(FPM)	ACFM		CARBON	CARBON	
WATER TREN	—	—	1560	—	—	—	—	—
1" IN	50*	45	2710	—	15	0	15	—
2" IN	—	—	—	—	6.5	0	6.5	—
3" IN	—	—	—	—	3	0	3	—
ELL	—	—	2730	—	0	0	—	—

EFFICIENCY %

IC ENGINE (ONLY)

Readings	
Arrival	Departure

CATOX/RETOX / THERMAL OXIDIZER	
Data Point	Temperature

Propane Tanks	
Lbs.	

UNIT	Hour Meter

MOISTURE KNOCKOUT
 Gals. Removed

SPARGE PUMP
 ON OFF N/A

PSI- CFM-

- By Pass Setting
- Carb Setting
- System Vacuum
- CO
- NOX
- Propane Tank (lbs)
- Gas Meter Reading
- O2
- RPM

REMARKS: * 1" IN VACUUM WAS 50" H₂O → HAD TO PURGE WATER OUT OF THE SYSTEM TO GET TO 45" H₂O

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

1127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN STREM

Date: 2-2-96

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		1985193
Effluent Flow Rate (gpm)		7.6
Aeration Pressure (psi)		.3
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		8.5
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y. (N)
 Monthly Qtrly Semi-Ann Annual

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

WELL READINGS

	Well # <u>MW-5</u>	Well # <u>W-1</u>	Well # <u>W-2</u>	Well # <u>AUX</u>
Flow Totalizer (gals)	113748	77455.6	158089	—
Flow Rate (gpm)	—	—	—	—
Hour Meter (hours)				
DTW from TOC (ft)				

BACK FLUSH SYSTEM

SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006.00
Site: Tex/1127 Lincoln Ave Alam
Project Mgr: Brian Garber

Technician: STEVEN STREM
Scheduled: 1/29/96
Site Mgr:

PREPARATORY COMMENTS

Visit Date: 1-25-96 Arrival Time: 1521 Departure Time: 1556

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y/N Time: 1555 Who: Jessie Fedor Topic: SYSTEM PRESSURE VIEW

Are You In Possession of a Site Safety Plan? Y/N

COC: Complete with store #, site address & proj office address? Y/N Ng

Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.

2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.

3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.

4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.

5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.

6. Record all readings on the appropriate logs on site.

7. At the inlet to the first air carbon canister measure the flow rate.

8. On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00 Technician: STEVEN STRON
 Site: Tex/1127 Lincoln Ave Alam Scheduled: 1/29/96
 Project Mgr: Brian Garber Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

9. Notify the project manager by phone if the following conditions exist at the site:

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	.50
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FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y/N-If No, Explain
 WASTE COMPLIANCE: # of Drums w/: Water___, Soil___, Empty___, Other 2-30gal CARBON NORTHWESTERN
 DRUMS labeled? NA Y N Gen. Date: _____ Label Type: _____
 SOIL pile? Y/N size: _____ cu.yds. SITE LEFT CLEAN? Y N

TECHNICIAN'S COMMENTS

- CAN WE REMOVE THE LIQUID CARBON FILTER CANISTERS
 NORTHWESTERN? (916) 527-2664

Total Hours Estimated	.50	Total Hours Used	.50
Travel Time Estimated	1.00	Travel Time Used	1.00

**SITE VISITATION FORM
FOR
VAPOR EXTRACTION SYSTEM SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

1127 LINCOLN ALAMEDA
Site Address

Date: 1-25-96

Completed By: STEVEN STROM

SAMPLE/MONITOR	VACUUM (HG) OR (H2O)	VELOCITY (FPM)	FLOW ACFM	FID	FID WITH CARBON	ADJUSTED CARBON	LEL/O2	EFFICIENCY %
LOCATION								
WATER TRL	44 / 34	1610	—	42	1.5	40.5	—	
NE 1 ST	44*	3220	—	30	1.5	28.5	—	
NE 2 ND	—	—	—	18.0	1.0	17.0	—	
NE 3 RD	—	—	—	0.5	0	0	—	
EFF	—	3280	—					

IC ENGINE (ONLY)

- By Pass Setting
- Carb Setting
- System Vacuum
- CO
- NOX
- Propane Tank (lbs)
- Gas Meter Reading
- O2
- RPM

Readings	Arrival		Departure	

CATOX/RETOX / THERMAL OXIDIZER

Data Point	Temperature

Propane Tanks

Lbs.	
Gas	

AIA

UNIT	Hour Meter

MOISTURE KNOCKOUT

2 Gals. Removed

SPARGE PUMP

ON OFF **N/A**

PSI- CFM-

REMARKS: * INITIAL VACUUM WAS 44" H2O - AFTER LINES WERE PURGED IT DROPPED DOWN TO 34" H2O

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

1127 LINCOLN ALAMEDA
Site Address

Date: 1-25-96

Completed By: STEVEN STROM

SYSTEM CHECK/READINGS

Applicable	Yes	No	N/A
System Operational	X		
Contain. Float Switch Working	X		
Just Flow Rate	X	X	
Filter Checked and Cleaned	X		
Trainer Checked and Cleaned	X	X	
Check/Add Water Conditioner			X
Calibrate I.E.L.			

	N/A	Field Data
Effluent Totalizer (gals)		198169.3
Effluent Flow Rate (gpm)		8.0
Aeration Pressure (psi)		.3
Filter INFL Pressure (psi)		2.0
Filter EFFL Pressure (psi)	X	8.0
Carbon Vessel #1 Pressure (psi)		8.0
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y N
 Monthly Qtrly Semi-Ann Annual

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

WELL READINGS

	Well # <u>MW-5</u>	Well # <u>W-1</u>	Well # <u>W-2</u>	Well # <u>AUX</u>
Flow Totalizer (gals)	112577	76700.7	156086	
Flow Rate (gpm)	3.25			
Hour Meter (hours)				
TOC (ppm)				

SITE VISIT FORM

Groundwater Technology, Inc. Concord, California

Technician STEVEN SPIDEM

Scheduled: 1/22/96

Site Mgr

Project: 20700006-00

Site: Tex/1127 Lincoln Ave Alam

Project Mgr: Brian Garber

PREPARATORY COMMENTS

Visit Date: 1-18-96 Arrival Time: 1330 Departure Time: 1401

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y/N Time: 1400 Who: JASW FSDOC Topic: SYSTEM STATUS

Are You In Possession of a Site Safety Plan? Y/N

COC: Complete with store #, site address & proj office address? Y/N N/A

Job # and task #

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.

SITE VISIT FORM

Groundwater Technology, Inc. Concord, California

STEVEN STRAM

Project: 20709006-00

Technician:

Site: Tex/1127 Lincoln Ave Alan

Scheduled: 1/22/96

Project Mgr: Brian Garber

Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

9. Notify the project manager by phone if the following conditions exist at the site:

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated

.50

Hours Used

.50

FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y N - If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water __, Soil __, Empty __, Other __

DRUMS labeled? Y N Gen. Date: _____ Label Type: _____

SOIL pile? Y/N size: _____ cu.yds. SITE LEFT CLEAN? Y N

TECHNICIAN'S COMMENTS

Total Hours Estimated

.50

Total Hours Used

.50

Travel Time Estimated

1.00

Travel Time Used

1.00

SITE VISITATION FORM
FOR
VAPOR EXTRACTION SYSTEM SAMPLING
SYSTEM OPERATION AND MAINTENANCE

1127 LINCOLN PLANE 4
 Site Address

Date: 1-18-96

Sampled By: STEVEN

SAMPLE/MONITOR LOCATION	VACUUM	VELOCITY	FLOW	FID	FID WITH	ADJUSTED	LEL/O2	EFFICIENCY %
	(HG) OR (H2O)	(FPM)	ACFM		CARBON	CARBON		
WATER TRU	—	1520	—	—	—	—	—	
LINE 1ST	32"	3500	—	38	—	38	—	
LINE 10P	—	—	—	20	—	20	—	
LINE 3RD	—	—	—	8	—	8	—	
EFF	—	3512	—	0	—	0	—	

IC ENGINE (ONLY)

	Readings	
	Arrival	Departure
By Pass Setting		
Carb Setting		
System Vacuum		
CO		
NOX		
Propane Tank (lbs)		
Gas Meter Reading		
O2		
RPM		

CATOX/RETOX / THERMAL OXIDIZER

Data Point	Temperature

Propane Tanks

Lbs.	
Gas	

UNIT

Hour Meter

UNIT	Hour Meter

MOISTURE KNOCKOUT

Gals. Removed

SPARGE PUMP

ON OFF N/A

PSI- CFM-

REMARKS:

HEAVY RAIN

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

1127 LINCOLN LEASDA
Site Address

Date: 1-18-96

Completed By: STEVEN STROM

SYSTEM CHECK / READINGS

Applicable	Yes	No	N/A
System Operational	X		
Control Panel Contain. Float Switch Working	X		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner		X	
Calibrate LEL			X

	N/A	Field Data
Effluent Totalizer (gals)		1948741
Effluent Flow Rate (gpm)		1.0
Aeration Pressure (psi)		3
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	✓	
Carbon Vessel #1 Pressure (psi)		134 / 7.5
Carbon Vessel #2 Pressure (psi)	✓	
Air Compressor Pressure (psi)	✓	
Hour Meter (hours)	✓	

SYSTEM SAMPLING

System sampled Y ___ N ___
Monthly Qtrly Semi-Ann Annual

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

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 Well # AUX

Flow Totalizer (gals)	102035	69742	137865	
Flow Rate (gpm)	356	4.59		
Hour Meter (hours)				
Sample TOC (m)				

BEFORE BACK FLUSH!

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00

Technician: STEVE STROM

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 1/01/96

Project Mgr: Brian Garber

Site Mgr:

PREPARATORY COMMENTS

Visit Date: 1-2-95 Arrival Time: 1438 Departure Time: 1546Work Order read in office: Y N upon arrival: Y N upon departure: Y NCalled PM? Y/N Time: 1535 Who: STEVE Topic: SYSTEMAre You In Possession of a Site Safety Plan? Y NCOC: Complete with job #, site address & project office address? Y N

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.
9. Notify the project manager by phone if the following conditions exist at the site:

SITE VISIT FORM

Groundwater Technology, Inc. Concord, California

Project: 20700006-00

Technician:

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 1/01/96

Project Mgr: Brian Garber

Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated

.50

Hours Used

0.5

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Monthly]

1. Collect samples from four sampling locations. Collect 2 voa containers from the locations as shown on the map (refer to O&M binder).
(A-INF Influent to system) (B-INF Influent to 1st carbon canister)
(C-BT-1 Breakthrough of 1st carbon canister) (D-EFF Effluent from system)
2. Water samples are to be analyzed for BTEX/TPH-G.
3. Collect Air samples: for BTEX/TPH-G.
4. Fill out chain-of-custody manifest appropriately with the correct analyses requested as per O&M table in site O&M binder.
5. Samples will be sent to BC Analytical - (1085 Shary Circle, Concord (510) 825-3894), under the appropriate COC manifest.

EQUIPMENT NEEDED: Site safety plan and safety equipment, PID, Chain-of-Custody manifests, labels, 40ml VOAs.

TEXACO REPRESENTATIVE: Karen Petryna (510) 236-9139.

Hours Estimated

1.50

Hours Used

1.50

FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y/ N-If No, Explain

WASTE COMPLIANCE: # of Drums w/ Water _____, Soil _____, Empty _____, Other _____

DRUMS labeled? Y/ N Gen. Date: _____ Label Type: _____

SOIL pile? Y/ N size: _____ cu.yds. **SITE LEFT CLEAN?** Y/ N

SITE VISIT FORM

Groundwater Technology, Inc - Concord, California

Technician: *STEVEN STREMS*

Project: 207.00006.00

Scheduled: 1/01/96

Site: Tex/1127 Lincoln Ave Alam

Site Mgr:

Project Mgr: Brian Garber

TECHNICIAN'S COMMENTS

Total Hours Estimated	2.00	Total Hours Used	1.75
Travel Time Estimated	1.00	Travel Time Used	.50

[Signature]

 Technician

SITE VISITATION FORM
FOR
VAPOR EXTRACTION SYSTEM SAMPLING
SYSTEM OPERATION AND MAINTENANCE

1127 LINCOLN ALAMEDA
 Site Address

Sampled By: STEVEN STREM

Date: 1-2-96

SAMPLE/MONITOR LOCATION	VACUUM (HG) OR (H2O)	VELOCITY (FPM)	FLOW ACFM	FID	FID WITH CARBON	ADJUSTED CARBON	LEL/O2	EFFICIENCY %
WATER TRU	—	1570	—	—	—	—	—	
INF 1 ST	31" 3"	3610	—	40.0	2.0	38.0	—	
INF 2 ND	—	—	—	70.0	3.0	67.0	—	
INF 3 RD	—	—	—	76.0	1.0	75.0	—	
EFF	—	3540	—	0	0	0	—	

IC ENGINE (ONLY)

Readings

CATOX/RETOX / THERMAL OXIDIZER

Arrival

Departure

Data Point

Temperature

UNIT

Hour Meter

By Pass Setting

Carb Setting

System Vacuum

CO

NOX

Propane Tank (lbs)

Gas Meter Reading

O2

BPM

Propane Tanks

Lbs.

Gas

MOISTURE KNOCKOUT

0 Gals. Removed

SPARGE PUMP

ON

OFF

(N/A)

PSI-

CFM-

REMARKS: NOTE INF 3RD & 2ND HIGHER THAN INF 1ST

CLEANED SITE

SAMPLED AIR & WATER FROM SYSTEM

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

1127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN STREM

Date: 1-2-96

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		1882521
Effluent Flow Rate (gpm)		7.1
Aeration Pressure (psi)		3
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		8
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y ~~N~~

Monthly Qtrly Semi-Ann Annual

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

WELL READINGS

Well # MW-5

Well # w-1

Well # w-2

Well # AVX

Flow Totalizer (gals)	80097.4	54565.0	104998.0	
Flow Rate (gpm)	3.65	4.43		
Hour Meter (hours)				
DTW from TOC (ft)				

SITE VISIT FORM

Groundwater Technology, Inc. Concord, California

Project: 20700006-00

Technician: STEVEN STON

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 12/25/95

Project Mgr: Brian Garber

Site Mgr:

PREPARATORY COMMENTS

Visit Date: 12-28-95 Arrival Time: 1320 Departure Time: 1355

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y(N) Time: Who: Topic: *BASED / DAND NOT AT OFFICE*

Are You In Possession of a Site Safety Plan? Y(N)

COC: Complete with job #, site address & project office address? ~~Y(N)~~ NA

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.
9. Notify the project manager by phone if the following conditions exist at the site:

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

1127 LINCOLN ALAMEDA
Site Address

Date: 12-19-95 ⁷⁸

Sampled By: STEVEN STROM

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		1861914
Effluent Flow Rate (gpm)		7.1
Aeration Pressure (psi)		3.0
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		12*/8
Carbon Vessel #2 Pressure (psi)	X	
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y N X
 Monthly Qtrly Semi-Ann Annual

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

* BEFORE BACKFLUSH

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 Well # AUX

Flow Totalizer (gals)	73011.5	49621.2	95450.3	---
Flow Rate (gpm)	3.47	4.63	---	---
Hour Meter (hours)				
DTW from TOC (ft)				

**SITE VISITATION FORM
FOR
VAPOR EXTRACTION SYSTEM SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

1127 LINCOLN ALAMEDA
Site Address

Date: 12/28/95

Sampled By: STEVEN STREM

SAMPLE/MONITOR LOCATION	VACUUM		VELOCITY	FLOW	FID	FID WITH	ADJUSTED	LEL/O2	EFFICIENCY %
	(HG)	OR (H2O)	(FPM)	ACFM		CARBON	CARBON		
WATER TRI	—	—	1480 (2)	—	—	—	—	—	
INF 1 ST	32	3"	3560 (2)	—	112	2.5	109.5	—	
INF 2 ND	—	—	—	—	33	2.0	31.0	—	
INF 3 RD	—	—	—	—	56	1.0	55.0	—	
EFF	—	—	3490 (2)	—	0	0	0	—	

IC ENGINE (ONLY)

Readings

Arrival Departure

CATOX/RETOX / THERMAL OXIDIZER

Data Point Temperature

UNIT

Hour Meter

By Pass Setting
Carb Setting
System Vacuum
CO
NOX
Propane Tank (lbs)
Gas Meter Reading
O2
RPM

Propane Tanks

Lbs.	
Gas	

MOISTURE KNOCKOUT

Gals. Removed

SPARGE PUMP

ON OFF (N/A)

PSI- CFM-

REMARKS: CLEAN SITE

SITE VISIT FORM

Groundwater Technology, Inc. Concord, California

Project: 20700006-00

Technician: STEVEN S. GIBB

Site: Mex/1127 Lincoln Ave Alam

Scheduled: 12/25/95

Project Mgr: Brian Garber

Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	.5
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FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y/N-If No, Explain

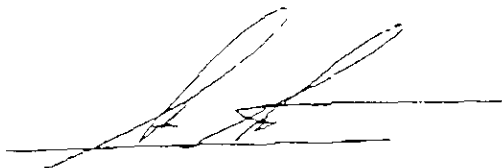
WASTE COMPLIANCE: # of Drums w/: Water , Soil , Empty , Other

DRUMS labeled? Y/ N Gen. Date: Label Type:

SOIL pile? Y/ N size: cu.yds. SITE LEFT CLEAN? Y/N

TECHNICIAN'S COMMENTS

Total Hours Estimated	.50	Total Hours Used	.50
Travel Time Estimated	1.00	Travel Time Used	1.00



COPY

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00

Site: Tex/1127 Lincoln Ave Alam

Project Mgr: Brian Garber

Technician: STEVEN STRON

Scheduled: 12/18/95

Site Mgr:

PREPARATORY COMMENTS

Visit Date: 12/19/95 Arrival Time: 1201 Departure Time: 1248

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y/N Time: 1245 Who: JASON FEDORA Topic: SYSTEM STATUS

Are You In Possession of a Site Safety Plan? Y/N

COC: Complete with job #, site address & project office address? Y/ NA

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.

2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.

3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.

4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.

5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.

6. Record all readings on the appropriate logs on site.

7. At the inlet to the first air carbon canister measure the flow rate.

8. On the logs at the site record the above measurements and hours of operation.

9. Notify the project manager by phone if the following conditions exist at the site

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006.00
 Site: Tex/1127 Lincoln Ave Alam
 Project Mgr: Brian Garber

Technician: *Steven Seem*
 Scheduled: 12/18/95
 Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	.50
-----------------	-----	------------	-----

~~O&M SYSTEM MAINTENANCE - Task Nr: 051005 - Monthly~~

1. Collect samples from four sampling locations. Collect 2 voa containers from the locations as shown on the map (refer to O&M binder).
 (A-INF Influent to system) (B-INF Influent to 1st carbon canister)
 (C-BT-1 Breakthrough of 1st carbon canister) (D-EFF Effluent from system)
2. Water samples are to be analyzed for BTEX/TPH-G.
3. Collect Air samples: for BTEX/TPH-G.
4. Fill out chain-of-custody manifest appropriately with the correct analyses requested as per O&M table in site O&M binder.
5. Samples will be sent to BC Analytical - (1085 Shaw Circle, Concord (510) 825-3894) under the appropriate COC manifest.

EQUIPMENT NEEDED: Site safety plan and safety equipment, PID, Chain-of-Custody manifests, labels, 40ml VOAs.

TEXACO REPRESENTATIVE: Karen Petryna (510) 236-9139.

Hours Estimated	1.50	Hours Used	
-----------------	------	------------	--

FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y/N - If No, Explain

WASTE COMPLIANCE: # of Drums w/ Water _____, Soil _____, Empty _____, Other _____

DRUMS labeled? Y/N Gen. Date: _____ Label Type: _____

SOIL piles? Y/N size _____ cu yds SITE LEFT CLEAN? Y/N


SITE VISIT FORM
Groundwater Technology, Inc. - Concord, California

Project: 20700006.00
Site: Tex/1127 Lincoln Ave Alam
Project Mgr: Brian Garber

Technician:
Scheduled: 12/18/95
Site Mgr:

TECHNICIAN'S COMMENTS

Total Hours Estimated	2.00	Total Hours Used	0.5
Travel Time Estimated	1.00	Travel Time Used	1.00



Technician

SITE VISITATION FORM
FOR
WASTEWATER DISCHARGE SAMPLING
SYSTEM OPERATION AND MAINTENANCE

1127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN STROM

Date: 12-19-95

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		1829 240
Effluent Flow Rate (gpm)		7.0
Aeration Pressure (psi)		3.1
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		9
Carbon Vessel #2 Pressure (psi)		—
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y N
 Monthly Qtrly Semi-Ann Annual

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

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 Well # AUX

Flow Totalizer (gals)	62399.3	42388.4	81212.2	—
Flow Rate (gpm)	3.78	4.38	—	
Hour Meter (hours)				
DTW from TOC (ft)				

**SITE VISITATION FORM
FOR
VAPOR EXTRACTION SYSTEM SAMPLING
SYSTEM OPERATION AND MAINTENANCE**

1127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN STREM

Date: 12/19/95

SAMPLE/MONITOR LOCATION	VACUUM		VELOCITY	FLOW	FID	FID WITH	ADJUSTED	LEL/O2	EFFICIENCY %
	(HG)	OR (H2O)	(FPM)	ACFM		CARBON	CARBON		
WATER TRL	—		1540	—	—	—	—	—	
INF 1 ST	31		3590	—	106	3.5	102.5	—	
INF 2 ND	—		—	—	51.0	4.0	47.0	—	
INF 3 RD	—		—	—	32.0	4.0	28.0	—	
EFF	—		3460	—	0	0	0	—	

IC ENGINE (ONLY)

- By Pass Setting
- Carb Setting
- System Vacuum
- CO
- NOX
- Propane Tank (lbs)
- Gas Meter Reading
- O2
- RPM

Readings	
Arrival	Departure

CATOX/RETOX / THERMAL OXIDIZER

Data Point	Temperature

Propane Tanks	
Lbs.	Gas

UNIT	Hour Meter

MOISTURE KNOCKOUT
27 Gals. Removed

SPARGE PUMP
ON OFF N/A

PSI- CFM-

REMARKS:

CLEANNED SITE
LAST WEEK HAD HEAVY RAIN.

SITE VISIT FORM

Groundwater Technology, Inc. Concord, California

Project: 20700005-00

Technician: STEVEN STREIN

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 12/11/95

Project Mgr: Brian Garber

Site Mgr: 13

PREPARATORY COMMENTS

Visit Date: 12/13/95 Arrival Time: 1305 Departure Time: 1343

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y/N Time: 1340 Who: Jason Favore Topic: _____

Are You In Possession of a Site Safety Plan? Y/N

COC: Complete with job #, site address & project office address? Y/N NA

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.
9. Notify the project manager by phone if the following conditions exist at the site:

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006-00 Technician:
 Site: Tex/1127 Lincoln Ave Alam Scheduled: 12/11/95
 Project Mgr: Brian Garber Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated	.50	Hours Used	.50
-----------------	-----	------------	-----

FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? Y/N-If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water __, Soil __, Empty __, Other __

DRUMS labeled? NA/Y/N Gen. Date: _____ Label Type: _____

SOIL pile? Y/N size: _____ cu.yds. SITE LEFT CLEAN? Y/N

TECHNICIAN'S COMMENTS

Back FLUSHED LIQUID CARBON
HEAVY RAINFALL

DID NOT CLEAN
 PUB TO HOPPY
 RAIN

Total Hours Estimated	.50	Total Hours Used	.50
Travel Time Estimated	1.00	Travel Time Used	1.00

[Handwritten Signature]

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

1127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN STROM

Date: 12-13-95

SYSTEM CHECK / READINGS

(Applicable)	Yes	No	N/A
System Operational	X		
and Contain. Float Switch Working	X		
Adjust Flow Rate		X	
Filter Checked and Cleaned	X		
Strainer Checked and Cleaned	X		
Check/Add Water Conditioner		X	
Calibrate LEL			X

	N/A	Field Data
Effluent Totalizer (gals)		180 / 3378
Effluent Flow Rate (gpm)		7.7 / 7.2*
Aeration Pressure (psi)		3.0
Filter INFL Pressure (psi)		0
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		13 / 7*
Carbon Vessel #2 Pressure (psi)		
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled Y NX
 Monthly Qtrly Semi-Ann Annual

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

* AFTER
CHECK FLOW

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 Well # AUX

Flow Totalizer (gals)	5.3 / 99.6	2.4 / 16.4		0
Flow Rate (gpm)	3.61	4.26		
Hour Meter (hours)				
DTW from TOC (ft)				

SITE VISIT FORM

Groundwater Technology, Inc. Concord, California

Project: 20700006-00

Technician: STEVEN SPIN
Scheduled: 11/27/95 12/10/95

Site: Tex/1127 Lincoln Ave Alam

Site Mgr:

Project Mgr: Brian Garber

PREPARATORY COMMENTS

Visit Date: 12/15/95 Arrival Time: 1215 Departure Time: 1325

Work Order read in office: Y/N upon arrival: Y/N upon departure: Y/N

Called PM? Y/N Time: 1320 Who: JASON FERRER Topic: SYSTEM STATUS

Are You In Possession of a Site Safety Plan? Y/N

COC: Complete with job #, site address & project office address? Y/N

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Weekly]

SYSTEM STATUS = Vapor I (inactive) + (site up) - (site down)

SYSTEM STATUS = Water I (inactive) + (site up) - (site down)

Logbook in blue container beneath trailer. Record activities in site log.

1. Record flow totalizer on site visitation form. Put pink copy in the O&M binder and give the other two copies to Krissi ASAP.
2. Document sampling performed (if any), maintenance performed on system, and any operational changes. Note down time, leaks, carbon change -out, and/or carbon back flush.
3. At the exhaust of the first air carbon canister record ppm with FID WITH AND WITHOUT carbon tip.
4. At the inlet of the first air carbon canister record ppm with FID WITHOUT carbon tip.
5. At the exhaust (to atmosphere) of the second carbon canister record ppm with FID WITHOUT carbon tip.
6. Record all readings on the appropriate logs on site.
7. At the inlet to the first air carbon canister measure the flow rate.
8. On the logs at the site record the above measurements and hours of operation.
9. Notify the project manager by phone if the following conditions exist at the site:

SITE VISIT FORM

Groundwater Technology, Inc. Concord, California

Project: 20700066.00

Technician: STEVEN SMITH

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 11/27/95 12/6/95

Project Mgr: Brian Garber

Site Mgr:

O&M SYSTEM MAINTENANCE (Continued) - Task Nr: 051005 [Weekly]

- a.) The system is not operational when you leave site.
- b.) If the readings from the exhaust of the first air carbon canister exceeds 10ppmv by FID without carbon tip.
- c.) Any unsafe condition which may damage property or machinery.

EQUIPMENT NEEDED: Flame Ionization Detector (FID) with a removable carbon tip. Air velocity gauge.

Hours Estimated .50

Hours Used .25

O&M SYSTEM MAINTENANCE - Task Nr: 051005 [Monthly]

1. Collect samples from four sampling locations. Collect 2 voa containers from the locations as shown on the map (refer to O&M binder).
(A-INF Influent to system) (B-INF Influent to 1st carbon canister)
(C-BT-1 Breakthrough of 1st carbon canister) (D-EFF Effluent from system)
2. Water samples are to be analyzed for BTEX/TPH-G.
3. Collect Air samples: for BTEX/TPH-G.
4. Fill out chain-of-custody manifest appropriately with the correct analyses requested as per O&M table in site O&M binder.
5. Samples will be sent to BC Analytical - (1085 Shary Circle, Concord (510) 825-3894), under the appropriate COC manifest.

EQUIPMENT NEEDED: Site safety plan and safety equipment, PID, Chain-of-Custody manifests, labels, 40ml VOAs.

TEXACO REPRESENTATIVE: Karen Petryna (510) 236-9139.

0.75

Hours Estimated 1.50

Hours Used ~~2.0~~

FINAL CHECKS

SITE SECURITY: well/covers/gates. . secure? Y N-If No, Explain

WASTE COMPLIANCE: # of Drums w/ Water ___ Soil ___, Empty ___, Other CHEN

DRUMS Labeled? NA Gen. Date: ___ Label Type: MFG

SOIL pile? Y/N size: ___ cu.yds SITE LEFT CLEAN? Y

SITE VISIT FORM

Groundwater Technology, Inc. - Concord, California

Project: 20700006-00

Technician:

Site: Tex/1127 Lincoln Ave Alam

Scheduled: 11/27/95

Project Mgr: Brian Garber

Site Mgr:

TECHNICIAN'S COMMENTS

Total Hours Estimated

2.00

Total Hours Used


1.0

Travel Time Estimated

1.00

Travel Time Used

0.75



Technician

SITE VISITATION FORM
FOR
VAPOR EXTRACTION SYSTEM SAMPLING
SYSTEM OPERATION AND MAINTENANCE

1127 LINCOLN ALAMEDA
 Site Address

Date: 12-6-95

Sampled By: STEVEN STROM

SAMPLE/MONITOR LOCATION	VACUUM (HG) OR (H2O)	VELOCITY (FPM)	FLOW Temp of AGFM	FID	FID WITH CARBON	ADJUSTED CARBON	LEL/O2	EFFICIENCY %
WATER TRAILER	—	1570	79	—	—	—	—	
INF 1 ST	26" @ 3"	3970	84	95	2.5	92.5	—	
INF 2 ND	—	—	—	21.0	2.5	18.5	—	
INF 3 RD	—	—	—	11.0	1.5	9.5	—	
EFF.	—	3910	84	0	0	0	—	

IC ENGINE (ONLY)

- By Pass Setting
- Carb Setting
- System Vacuum
- CO
- NOX
- Propane Tank (lbs)
- Gas Meter Reading
- O2
- RPM

Readings	
Arrival	Departure

CATOX/RETOX / THERMAL OXIDIZER

Data Point	Temperature

Propane Tanks	
Lbs.	Gas

UNIT	Hour Meter

MOISTURE KNOCKOUT
 Gals. Removed

SPARGE PUMP
 ON OFF N/A

PSI- CFM-

REMARKS: CLEANED SITE
SAMPLED AIR & WATER

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

1127 LINCOLN ALAMEDA
Site Address

Sampled By: STEVEN STROM

Date: 12-6-95

SYSTEM CHECK / READINGS

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

	N/A	Field Data
Effluent Totalizer (gals)		1776877
Effluent Flow Rate (gpm)		7.1
Aeration Pressure (psi)		4.0
Filter INFL Pressure (psi)		Ø
Filter EFFL Pressure (psi)	X	
Carbon Vessel #1 Pressure (psi)		10.5
Carbon Vessel #2 Pressure (psi)		-
Air Compressor Pressure (psi)	X	
Hour Meter (hours)	X	

SYSTEM SAMPLING

System sampled N
 Monthly Qtrly Semi-Ann Annual

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

WELL READINGS

Well # MW-5 Well # W-1 Well # W-2 Well # AUX

Flow Totalizer (gals)	45142.0	30964.7	58002.0	Ø
Flow Rate (gpm)	3.94	4.01	-	
Hour Meter (hours)				
DTW from TOC (ft)				

CHAIN OF CUSTODY RECORD

BILL TEXACO DIRECT

BCA Log Number

Client name
GROUNDWATER TECHNOLOGY

Address
1401 HAYWARD DR #140

City, State, Zip
N. SACRAMENTO CA 95691

Project or PO# **020700006**

TES/1127 LINCOLN, ALAMEDA

Phone #:
(916) 372 4700

Report attention
BRIAN GARBER

Analyses required									

Lab sample number	Date sampled	Time sampled	Type See key below
	12-6-95	1220	AQ
	12-6-95	1222	AQ
	12-6-95	1224	AQ
	12-6-95	1226	AQ
	12-6-95	1243	AIR
	12-6-95	1245	AIR
	12-6-95	1247	AIR

Sample description	PRESERVATIVE		Number of containers
	TCE	HCL	
STEVEN STREM			
C-EFF	X	X	2
B-BT-1	X	X	2
A-INF	X	X	2
INF	X	X	2
EFF - AIR			1
INF INF TO 2 ND - AIR			1
INF - AIR			1

Remarks

Signature	Print Name	Company	Date	Time
	STEVEN STREM	GROUNDWATER TECH	12-6-95	1340
		BIA	11/6/95	1345
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory				

3 C ANALYTICAL
 1085 Shary Circle, Concord, CA 94518 (510) 825-3894
 1601 Western Avenue, Glendale, CA 91201 (818) 247-5737

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: AQ—Aqueous NA—Nonaqueous SL—Sludge
 GW—Groundwater SO—Soil PE—Petroleum
 WW—Wastewater

Disposal arrangements:

ANALYTICAL RESULTS

C Analytical

ANALYTICAL REPORT

TOTAL P.11

101 Western Avenue
 Mendota, CA 91201
 415/247-5737
 Fax: 818/247-9797

LOG NO: G96-06-252

Received: 11 JUN 96
 Mailed : 14 JUN 96

Mr. John Gudings
 Kaprelian Engineering, Inc.
 2401 Stawell Drive, Suite 400
 Concord, California 94520

Purchase Order: 94-1446346-4370

Requisition: 624881450
 Project: FKEP1001L

Page 2

REPORT OF ANALYTICAL RESULTS

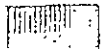
AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	Date Analyzed Date	Dilution Factor Times	TPH-g	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	Carbon Range
					ug/L	ug/L	ug/L	ug/L	ug/l	.
RDI				1	50	0.5	0.5	0.5	0.5	
3*Between Carbons	06/10/96	06/12/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12

Greta Galoustian, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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LOG NO: G96-04-153

Received: 09 APR 96

Mailed : 17 APR 96

Mr. John Giddings
 Kaprealian Engineering, Inc.
 2401 Stanwell Drive, Suite 400
 Concord, California 94520

Purchase Order: 94-1446346+4370

Requisition: 624881450

Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	04-153-4	04-153-5	04-153-6
DATE SAMPLED	09 APR 96	09 APR 96	09 APR 96
SAMPLE DESCRIPTION	A-Inf	B-BT-1	C-Eff
AQUEOUS			
GRO (8015M)			
Date Analyzed	04/10/96	04/10/96	04/10/96
Dilution Factor, Times	1	1	1
Carbon Range, .	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	<50	<50	<50
Surrogates **			
a,a,a-Trifluorotoluene Rep., ug/L	51.8	51.9	49.9
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0	50.0

LOG NO: G96-04-153

Received: 09 APR 96

Mailed : 17 APR 96

Mr. John Giddings
 Kaprealian Engineering, Inc.
 2401 Stanwell Drive, Suite 400
 Concord, California 94520

Purchase Order: 94-1446346+4370

Requisition: 624881450

Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	04-153-4	04-153-5	04-153-6
DATE SAMPLED	09 APR 96	09 APR 96	09 APR 96
SAMPLE DESCRIPTION	A-Inf	B-BT-1	C-Eff
AQUEOUS			
Halocarbons (8010)			
Date Analyzed	04/13/96	04/13/96	04/12/96
Date Confirmed	04/13/96	04/13/96	04/12/96
Dilution Factor, Times	1	1	1
1,1,1-Trichloroethane, ug/L	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane, ug/L	<0.5	<0.5	<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<0.5
1,1-Dichloroethane, ug/L	<0.5	<0.5	<0.5
1,1-Dichloroethene, ug/L	<0.5	<0.5	<0.5
1,2-Dichloroethane, ug/L	<0.5	<0.5	<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5

LOG NO: G96-04-153

Received: 09 APR 96
Mailed : 17 APR 96Mr. John Giddings
Kaprealian Engineering, Inc.
2401 Stanwell Drive, Suite 400
Concord, California 94520

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 4

LOG NO	04-153-4	04-153-5	04-153-6
DATE SAMPLED	09 APR 96	09 APR 96	09 APR 96
SAMPLE DESCRIPTION	A-Inf	B-BT-1	C-Eff
AQUEOUS			
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<0.5
Bromoform, ug/L	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5
Carbon Tetrachloride, ug/L	<0.5	<0.5	<0.5
Chloroethane, ug/L	<0.5	<0.5	<0.5
Chloroform, ug/L	<0.5	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	<0.5
Freon 113, ug/L	<0.5	<0.5	<0.5
Methylene chloride, ug/L	<2	<2	<2
Trichloroethene, ug/L	<0.5	<0.5	<0.5

LOG NO: G96-04-153

Received: 09 APR 96

Mailed : 17 APR 96

Mr. John Giddings
Kaprealian Engineering, Inc.
2401 Stanwell Drive, Suite 400
Concord, California 94520

Purchase Order: 94-1446346+4370

Requisition: 624881450

Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 5

LOG NO	04-153-4	04-153-5	04-153-6
DATE SAMPLED	09 APR 96	09 APR 96	09 APR 96
SAMPLE DESCRIPTION	A-Inf	B-BT-1	C-Eff
AQUEOUS			
Trichlorofluoromethane, ug/L	<0.5	<0.5	<0.5
Tetrachloroethene, ug/L	36	2.1	<0.5
Vinyl chloride, ug/L	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5	<0.5	<0.5
Surrogates **			
Bromochloromethane Reported, ug/L	49.3	58.7	54.4
Bromochloromethane Theoretical, ug/L	50.0	50.0	50.0

LOG NO: G96-04-153

Received: 09 APR 96
Mailed : 17 APR 96

Mr. John Giddings
Kaprealian Engineering, Inc.
2401 Stanwell Drive, Suite 400
Concord, California 94520

Purchase Order: 94-1446346+4370

Requisition: 624881450
Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 6

LOG NO	04-153-4	04-153-5	04-153-6
DATE SAMPLED	09 APR 96	09 APR 96	09 APR 96
SAMPLE DESCRIPTION	A-Inf	B-BT-1	C-Eff
AQUEOUS			
Volatile Aromatics (8020)			
Date Analyzed	04/13/96	04/13/96	04/12/96
Date Confirmed	04/13/96	04/13/96	04/12/96
Dilution Factor, Times	1	1	1
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5
Benzene, ug/L	<0.5	<0.5	<0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5
Ethylbenzene, ug/L	<0.5	<0.5	<0.5
Toluene, ug/L	<0.5	<0.5	<0.5
Total Xylene Isomers, ug/L	<1	<1	<1
Surrogates **			

LOG NO: G96-04-153

Received: 09 APR 96
Mailed : 17 APR 96

Mr. John Giddings
Kaprealian Engineering, Inc.
2401 Stanwell Drive, Suite 400
Concord, California 94520

Purchase Order: 94-1446346+4370
Requisition: 624881450
Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

Page 7

LOG NO	04-153-4	04-153-5	04-153-6
DATE SAMPLED	09 APR 96	09 APR 96	09 APR 96
SAMPLE DESCRIPTION	A-Inf	B-BT-1	C-Eff
AQUEOUS			
a,a,a-Trifluorotoluene Rep., ug/L	49.3	53.8	49.3
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0	50.0

Greta Galoustian, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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801 Western Avenue
 Glendale, CA 91201
 818/247 5737
 Fax: 818/247 9797

LOG NO: G96-04-074

Received: 03 APR 96

Mailed: APR 9 1996

Mr. Brian Garber
 Groundwater Technology, Inc.
 1101 Halyard Drive, Suite 140
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

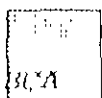
AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	Date Analyzed Date	Dilution Factor Times	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylenes Isomers ug/L	Carbon Range
1-C III	04/02/96	04/05/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
2-B BT-1	04/02/96	04/05/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
3-A Inf	04/02/96	04/05/96		1	<50	2.6	0.73	<0.5	2.2	C6-C12
4-Inf	04/02/96	04/05/96		1	260	33	4.6	0.81	7.1	C6-C12

Karen Petryna
 1127 Lincoln Ave., Alameda
 Alameda County

COPY

RECEIVED
 APR 12 1996



801 Western Avenue
 Glendale, CA 91201
 818/247-5737
 Fax: 818/247-9797

LOG NO: G96-04-074

Received: 03 APR 96

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

Purchase Order: 94-1446346+4370

Requisition: 624881450
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

VAPOR

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)		TPH-g mg/M3	Benzene mg/M3	Toluene mg/M3	Ethyl-Benzene mg/M3	Total Xylenes mg/M3	Carbon Range
		Date Analyzed	Dilution Factor Times						
RRL			1	1	0.005	0.005	0.005	0.005	
5*Air-Inf	04/02/96	04/04/96	1	<10	<0.2	<0.2	<0.2	<0.2	C6-C12
6*Air-Inf to 2nd	04/02/96	04/04/96	1	<10	<0.2	<0.2	<0.2	<0.2	C6-C12
7*Air-Inf	04/02/96	04/04/96	1	<10	0.43	<0.2	<0.2	<0.2	C6-C12

Jamie Winter for
 Dick Swenson, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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: ORDER PLACED FOR CLIENT: Groundwater Technology, Inc. 9604074 :
: BC ANALYTICAL : GLEN LAB : 14:10:41 08 APR 1996 - P. 1 :
=====

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
9604074*1	C-Eff	GAS.BTX.TESNC	04.05.96	8015M.TX	536-36	96642	6843
9604074*2	B-BT-1	GAS.BTX.TESNC	04.05.96	8015M.TX	536-36	96642	6843
9604074*3	A-Inf	GAS.BTX.TESNC	04.05.96	8015M.TX	536-36	96642	6843
9604074*4	Inf	GAS.BTX.TESNC	04.05.96	8015M.TX	536-36	96642	6843
9604074*5	Air-Inf	GAS.BTX.TES.VA	04.04.96	8015M	536-36	96640	6843
9604074*6	Air-Inf to 2nd	GAS.BTX.TES.VA	04.04.96	8015M	536-36	96640	6843
9604074*7	Air-Eff	GAS.BTX.TES.VA	04.04.96	8015M	536-36	96640	6843

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 G9604074

DATE REPORTED : 04/08/96

Page 1.

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. GRO	C604514*1					
Date Analyzed	04.04.96	96642	04/04/96	04/04/96	Date	N/A
Benzene	04.04.96	96642	16.2	15.2	ug/L	107
Toluene	04.04.96	96642	91.4	97.4	ug/L	94
Ethylbenzene	04.04.96	96642	19.5	20.4	ug/L	96
Total Xylene Isomers	04.04.96	96642	109	119	ug/L	92
TPH (Gasoline Range)	04.04.96	96642	1030	1100	ug/L	94
a,a,a-Trifluorotoluene Rep.	04.04.96	96642	52.7	50.0	ug/L	105
a,a,a-Trifluorotoluene Th.	04.04.96	96642	50.0	50.0	ug/L	100
2. TPH/BTEX	C604262*1					
Date Analyzed	04.03.96	96640	04/03/96	04/03/96	Date	N/A
Benzene	04.03.96	96640	5.56	6.40	mg/M3	87
Toluene	04.03.96	96640	5.58	6.40	mg/M3	87
Ethylbenzene	04.03.96	96640	5.20	6.40	mg/M3	81
Total Xylene Isomers	04.03.96	96640	10.6	12.8	mg/M3	83
TPH (Gasoline Range)	04.03.96	96640	94.4	119	mg/M3	79
a,a,a-Trifluorotoluene Rep.	04.03.96	96640	49.4	50.0	mg/M3	99
a,a,a-Trifluorotoluene Th.	04.03.96	96640	50.0	50.0	mg/M3	100
3. TPH/BTEX	C604263*1					
Date Analyzed	04.03.96	96640	04/03/96	04/03/96	Date	N/A
Benzene	04.03.96	96640	6.30	6.40	mg/M3	98
Toluene	04.03.96	96640	6.44	6.40	mg/M3	101
Ethylbenzene	04.03.96	96640	5.89	6.40	mg/M3	92
Total Xylene Isomers	04.03.96	96640	12.0	12.8	mg/M3	94
TPH (Gasoline Range)	04.03.96	96640	97.8	119	mg/M3	82
a,a,a-Trifluorotoluene Rep.	04.03.96	96640	51.2	50.0	mg/M3	102
a,a,a-Trifluorotoluene Th.	04.03.96	96640	50.0	50.0	mg/M3	100

BC ANALYTICAL

ORDER QC REPORT FOR G9604074

DATE REPORTED : 04/08/96

ADDITIONAL LCS PRECISION (DUPLICATES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	LC1 RESULT	LC2 RESULT	UNIT	RELATIVE % DIFF
1. TPH/BTEX							
Date Analyzed		04.03.96	96640	04/03/96	04/03/96	Date	N/A
Benzene		04.03.96	96640	5.56	6.30	mg/M3	12
Toluene		04.03.96	96640	5.58	6.44	mg/M3	14
Ethylbenzene		04.03.96	96640	5.20	5.89	mg/M3	12
Total Xylene Isomers		04.03.96	96640	10.6	12.0	mg/M3	12
TPH (Gasoline Range)		04.03.96	96640	94.4	97.8	mg/M3	4
a,a,a-Trifluorotoluene Rep.		04.03.96	96640	49.4	51.2	mg/M3	4
a,a,a-Trifluorotoluene Th.		04.03.96	96640	50.0	50.0	mg/M3	0

BC ANALYTICAL

ORDER QC REPORT FOR G9604074

DATE REPORTED : 04/08/96

Page 1

MATRIX QC ACCURACY (SPIKES)
 BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. GRO	9604074*1						
Benzene		04.05.96	96642	106	105	15.2	ug/L
Toluene		04.05.96	96642	95	93	97.4	ug/L
Ethylbenzene		04.05.96	96642	95	95	20.4	ug/L
Total Xylene Isomers		04.05.96	96642	92	92	119	ug/L
TPH (Gasoline Range)		04.05.96	96642	91	90	1100	ug/L
a,a,a-Trifluorotoluene Rep.		04.05.96	96642	105	106	50.0	ug/L
a,a,a-Trifluorotoluene Th.		04.05.96	96642	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9604074

DATE REPORTED : 04/08/96

Page 1.

MATRIX QC PRECISION (DUPLICATE SPIKES)
 BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. GRO	9604074*1						
Date Analyzed		04.05.96	96642	04/05/96	04/05/96	Date	N/A
Benzene		04.05.96	96642	16.1	16.0	ug/L	1
Toluene		04.05.96	96642	92.1	90.4	ug/L	2
Ethylbenzene		04.05.96	96642	19.4	19.3	ug/L	1
Total Xylene Isomers		04.05.96	96642	110	109	ug/L	1
TPH (Gasoline Range)		04.05.96	96642	999	990	ug/L	1
a,a,a-Trifluorotoluene Rep.		04.05.96	96642	52.3	53.0	ug/L	1
a,a,a-Trifluorotoluene Th.		04.05.96	96642	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9604074

DATE REPORTED : 04/08/96

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
1. GRO	B604277*1					
Date Analyzed	04.05.96	96642	04/05/96	NA	Date	8015M.TX
Benzene	04.05.96	96642	0	0.5	ug/L	8015M.TX
Toluene	04.05.96	96642	0	0.5	ug/L	8015M.TX
Ethylbenzene	04.05.96	96642	0	0.5	ug/L	8015M.TX
Total Xylene Isomers	04.05.96	96642	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	04.05.96	96642	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene Rep.	04.05.96	96642	51.7	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene Th.	04.05.96	96642	50.0	NA	ug/L	8015M.TX
2. TPH/BTEX	B604149*1					
Date Analyzed	04.03.96	96640	04/03/96	NA	Date	8015M
Benzene	04.03.96	96640	0	NA	mg/M3	8015M
Toluene	04.03.96	96640	0	NA	mg/M3	8015M
Ethylbenzene	04.03.96	96640	0	NA	mg/M3	8015M
Total Xylene Isomers	04.03.96	96640	0	NA	mg/M3	8015M
TPH (Gasoline Range)	04.03.96	96640	0	NA	mg/M3	8015M
a,a,a-Trifluorotoluene Rep.	04.03.96	96640	49.5	NA	mg/M3	8015M
a,a,a-Trifluorotoluene Th.	04.03.96	96640	50.0	NA	mg/M3	8015M

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9604074*1							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/05/96	51.1	50.0	102	
9604074*2							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/05/96	50.8	50.0	102	
9604074*3							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/05/96	50.6	50.0	101	
9604074*4							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/05/96	49.9	50.0	100	
9604074*5							
8015M	a,a,a-Trifluorotoluene	Re96640	04/04/96	50.0	50.0	100	
9604074*6							
8015M	a,a,a-Trifluorotoluene	Re96640	04/04/96	50.4	50.0	101	
9604074*7							
8015M	a,a,a-Trifluorotoluene	Re96640	04/04/96	50.4	50.0	101	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9604074*1*R1							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/05/96	51.1	50.0	102	
9604074*1*S1							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/05/96	52.3	50.0	105	
9604074*1*S2							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/05/96	53.0	50.0	106	
9604074*1*T							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/05/96	50.0	50.0	100	
B604149*1*MB							
8015M	a,a,a-Trifluorotoluene	Re96640	04/03/96	49.5	50.0	99	
B604277*1*MB							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/05/96	51.7	50.0	103	
C604262*1*LC							
8015M	a,a,a-Trifluorotoluene	Re96640	04/03/96	49.4	50.0	99	
C604262*1*LT							
8015M	a,a,a-Trifluorotoluene	Re96640	04/03/96	50.0	50.0	100	
C604263*1*LC							
8015M	a,a,a-Trifluorotoluene	Re96640	04/03/96	51.2	50.0	102	
C604263*1*LT							
8015M	a,a,a-Trifluorotoluene	Re96640	04/03/96	50.0	50.0	100	
C604514*1*LC							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/04/96	52.7	50.0	105	
C604514*1*LT							
8015M.TXa	a,a,a-Trifluorotoluene	Re96642	04/04/96	50.0	50.0	100	

CHAIN OF CUSTODY RECORD

BCA Log Number SL12157.01

Client name: GROUNDWATER TECHNOLOGY
 Address: HOLLYHARD DR #140
 City/State/Zip: West Sacramento CA 95691
 Project or PO#: 020700106
1127 LINCOLN AVE ALAMEDA
 Phone #: (916) 372 4700
 Report attention: BRIAN GARBER

BILL TEXACO DIRECT

Analyses required									

Lab Sample Number	Date Sampled	Time Sampled	Type* See Key below	Sampled by	Sample description	PRESERVATION		Number of containers	Remarks
						ICE	HCL		
				<u>STEVEN STREM</u>					
<u>4-2-96</u>	<u>1352</u>		<u>AQ</u>		<u>C-EFF</u>	<u>X</u>	<u>X</u>	<u>2</u>	<u>X</u>
<u>4-2-96</u>	<u>1353</u>		<u>AQ</u>		<u>B-BT-1</u>	<u>X</u>	<u>X</u>	<u>2</u>	<u>X</u>
<u>4-2-96</u>	<u>1355</u>		<u>AQ</u>		<u>A-INF</u>	<u>X</u>	<u>X</u>	<u>2</u>	<u>X</u>
<u>4-2-96</u>	<u>1356</u>		<u>AQ</u>		<u>INF</u>	<u>X</u>	<u>X</u>	<u>2</u>	<u>X</u>
<u>4-2-96</u>	<u>1343</u>		<u>AIR</u>		<u>AIR-INF</u>			<u>1</u>	<u>X</u>
<u>4-2-96</u>	<u>1342</u>		<u>AIR</u>		<u>AIR^{INF} TO 2ND</u>			<u>1</u>	<u>X</u>
<u>4-2-96</u>	<u>1341</u>		<u>AIR</u>		<u>AIR EFF</u>			<u>1</u>	<u>X</u>

BTEX/TPH-G

Hazardous sample Special handling required

69604/074

624881450
Alameda
FREPIDOIL KEP

Good

Signature	Print Name	Company	Date	Time
<u>[Signature]</u>	<u>STEVEN STREM</u>	<u>GROUNDWATER TECHNOLOGY</u>	<u>4-3-96</u>	<u>12:00</u>
<u>[Signature]</u>	<u>Bill Lyons</u>	<u>B.C.A.</u>	<u>4-3-96</u>	<u>12:00</u>
<u>[Signature]</u>	<u>Bill Lyons</u>	<u>B.C.A.</u>	<u>4-3-96</u>	<u>3:50</u>
<u>[Signature]</u>	<u>Kimberly Eng</u>	<u>BCA</u>	<u>4/3/96</u>	<u>3:50</u>
<u>[Signature]</u>	<u>Kimberly Eng</u>	<u>BCA</u>	<u>4/3/96</u>	<u>5:30</u>

BC ANALYTICAL
 10000
 916-372-4700
 10000

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 _____

*KLY: AQ: Aqueous HA: Non-halogenated SO: Soil PL: Petroleum
 GW: Groundwater

301 Western Avenue
 Glendale, CA 91201
 818/247-5737
 Fax: 818/247 9797

LOG NO: G96-03-433

Received: 14 MAR 96

Mailed: MAR 22 1996

Mr. Brian Garber
 Groundwater Technology, Inc.
 1101 Balyard Drive, Suite 140
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450
 Project: FKEP1001L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

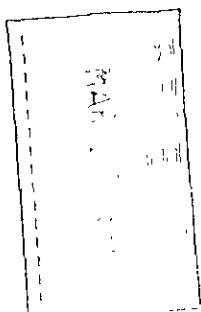
SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	Date Analyzed	Dilution Factor	TPH-g	Benzene	Toluene	Ethyl-Benzene	Total Xylenes Isomers	Carbon Range
			Date	Times	ug/L	ug/L	ug/L	ug/L	ug/L	.
RDI				1	50	0.5	0.5	0.5	0.5	
1* C-111	03/13/96	03/19/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
2*B-BT 1	03/13/96	03/19/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
3*A Inf	03/13/96	03/19/96		1	71	12	3.3	0.60	4.8	C6-C12
4* Inf	03/13/96	03/19/96		1	1300	260	66	8.9	100	C6-C12

Karen Petryna
 1177 Litchfield Ave., Alameda
 Alameda County

Jamie Winter
 Dick Swenson, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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COPY

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
9603433*1	C-Eff	GAS.BTX.TESNC	03.19.96	8015M.TX	536-23	96545	8171
9603433*2	B-BT-1	GAS.BTX.TESNC	03.19.96	8015M.TX	536-23	96545	8171
9603433*3	A-Inf	GAS.BTX.TESNC	03.19.96	8015M.TX	536-23	96545	8171
9603433*4	Inf	GAS.BTX.TESNC	03.19.96	8015M.TX	536-23	96545	8171

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 G9603433

DATE REPORTED : 03/22/96

Page 1

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. BTEX/GRO	C6031928*1					
Date Analyzed	03.19.96	96545	03/19/96	03/19/96	Date	N/A
Benzene	03.19.96	96545	13.6	15.2	ug/L	89
Toluene	03.19.96	96545	80.8	97.4	ug/L	83
Ethylbenzene	03.19.96	96545	16.9	20.4	ug/L	83
Total Xylene Isomers	03.19.96	96545	100	119	ug/L	84
TPH (Gasoline Range)	03.19.96	96545	1100	1100	ug/L	100
a,a,a-Trifluorotoluene Rep.	03.19.96	96545	54.5	50.0	ug/L	109
a,a,a-Trifluorotoluene Th.	03.19.96	96545	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9603433

DATE REPORTED : 03/22/96

Page 1

MATRIX QC ACCURACY (SPIKES)
 BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. GRO	9603422*3						
Benzene		03.19.96	96545	90	91	15.2	ug/L
Toluene		03.19.96	96545	83	84	97.9	ug/L
Ethylbenzene		03.19.96	96545	82	84	20.4	ug/L
Total Xylene Isomers		03.19.96	96545	84	87	119	ug/L
TPH (Gasoline Range)		03.19.96	96545	101	100	1100	ug/L
a,a,a-Trifluorotoluene Rep.		03.19.96	96545	111	113	50.0	ug/L
a,a,a-Trifluorotoluene Th.		03.19.96	96545	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9603433

DATE REPORTED : 03/22/96

Page 1

MATRIX QC PRECISION (DUPLICATE SPIKES)
 BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. BTEX/GRO	9603422*3						
Date Analyzed		03.19.96	96545	03/19/96	03/19/96	Date	N/A
Benzene		03.19.96	96545	13.7	13.8	ug/L	1
Toluene		03.19.96	96545	81.4	82.1	ug/L	1
Ethylbenzene		03.19.96	96545	16.7	17.1	ug/L	2
Total Xylene Isomers		03.19.96	96545	100	103	ug/L	3
TPH (Gasoline Range)		03.19.96	96545	1110	1100	ug/L	1
a,a,a-Trifluorotoluene Rep.		03.19.96	96545	55.3	56.4	ug/L	2
a,a,a-Trifluorotoluene Th.		03.19.96	96545	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9603433

DATE REPORTED : 03/22/96

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
1. BTEX/GRO	B6031029*1					
Date Analyzed	03.19.96	96545	03/19/96	NA	Date	8015M
Benzene	03.19.96	96545	0	0.3	ug/L	8015M
Toluene	03.19.96	96545	0	0.3	ug/L	8015M
Ethylbenzene	03.19.96	96545	0	0.3	ug/L	8015M
Total Xylene Isomers	03.19.96	96545	0	0.6	ug/L	8015M
TPH (Gasoline Range)	03.19.96	96545	0	100	ug/L	8015M
a,a,a-Trifluorotoluene Rep.	03.19.96	96545	50.4	0.5	ug/L	8015M
a,a,a-Trifluorotoluene Th.	03.19.96	96545	50.0	NA	ug/L	8015M

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 10:52:39 22 MAR 1996 - P. 1 :
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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9603433*1							
8015M.TXa	,a,a-Trifluorotoluene	Re96545	03/19/96	49.9	50.0	100	
9603433*2							
8015M.TXa	,a,a-Trifluorotoluene	Re96545	03/19/96	50.6	50.0	101	
9603433*3							
8015M.TXa	,a,a-Trifluorotoluene	Re96545	03/19/96	50.8	50.0	102	
9603433*4							
8015M.TXa	,a,a-Trifluorotoluene	Re96545	03/19/96	50.0	50.0	100	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9603422*3*R1							
8015M	a,a,a-Trifluorotoluene	Re96545	03/19/96	49.4	50.0	99	
9603422*3*S1							
8015M	a,a,a-Trifluorotoluene	Re96545	03/19/96	55.3	50.0	111	
9603422*3*S2							
8015M	a,a,a-Trifluorotoluene	Re96545	03/19/96	56.4	50.0	113	
9603422*3*T							
8015M	a,a,a-Trifluorotoluene	Re96545	03/19/96	50.0	50.0	100	
B6031029*1*MB							
8015M	a,a,a-Trifluorotoluene	Re96545	03/19/96	50.4	50.0	101	
C6031928*1*LC							
8015M	a,a,a-Trifluorotoluene	Re96545	03/19/96	54.5	50.0	109	
C6031928*1*LT							
8015M	a,a,a-Trifluorotoluene	Re96545	03/19/96	50.0	50.0	100	

801 Western Avenue
 Glendale, CA 91201
 818/247-5737
 Fax: 818/247-9297

LOG NO: G96-02-321

Received: 14 FEB 96

Mailed: FEB 22 1996

Mr. Brian Garber
 Groundwater Technology, Inc.
 1101 Halyard Drive, Suite 140
 West Sacramento, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450
 Project: FKEP1001L

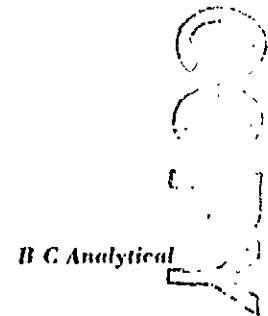
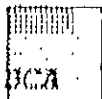
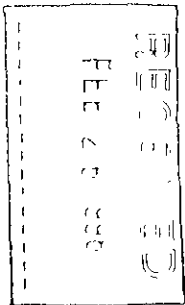
REPORT OF ANALYTICAL RESULTS

Page 1

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)	ANALYTICAL DATA							
			Date Analyzed Date	Dilution Factor Times	TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylenes Isomers ug/L	Carbon Range
RDI				1	50	0.5	0.5	0.5	0.5	
1" C Inf	02/14/96	02/20/96		1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
3" A Inf	02/14/96	02/20/96		1	<50	5.3	1.4	<0.5	2.5	C6-C12
4" Inf	02/14/96	02/20/96		1	230	11	1.6	2.1	4.0	C6-C12

Karen Petryna
 1127 Lincoln Ave., Alameda
 Alameda County



801 Western Avenue
 Glendale, CA 91201
 818/247-5737
 Fax: 818/247-9797

LOG NO: G96-02-321

Received: 14 FEB 96

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 2

AQUEOUS

SAMPLE DESCRIPTION	DATE SAMPLED	Sample Held Not Analyzed
RDI		
24B BCT	02/14/96	HOLD

Dick Swenson
 Dick Swenson, Laboratory Director

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SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9602321*1	C-Eff	GAS.BTX.TESNC	02.20.96	8015M.TX	536-23	96526	8501
9602321*3	A-Inf	GAS.BTX.TESNC	02.20.96	8015M.TX	536-23	96526	8501
9602321*4	Inf	GAS.BTX.TESNC	02.20.96	8015M.TX	536-23	96526	8501
9602321*2	B-Bt-1	HOLD	02.20.96				7362

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 G9602321

DATE REPORTED : 02/22/96

Page 1

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. BTEX	C6022017*1					
Date Analyzed	02.20.96	96526	02/20/96	02/20/96	Date	N/A
Date Extracted	02.20.96	96526	02/20/96	02/20/96	Date	N/A
Benzene	02.20.96	96526	15.2	15.2	ug/L	100
Toluene	02.20.96	96526	91.0	97.4	ug/L	93
Ethylbenzene	02.20.96	96526	18.5	20.4	ug/L	91
Total Xylene Isomers	02.20.96	96526	111	119	ug/L	93
a,a,a-Trifluorotoluene Rep.	02.20.96	96526	61.7	50.0	ug/L	123 Q
a,a,a-Trifluorotoluene Th.	02.20.96	96526	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9602321

DATE REPORTED : 02/22/96

Page 1

MATRIX QC ACCURACY (SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. GRO	9602393*1						
Benzene		02.20.96	96526	103	101	16.3	ug/L
Toluene		02.20.96	96526	97	91	97.9	ug/L
Ethylbenzene		02.20.96	96526	94	90	20.4	ug/L
Total Xylene Isomers		02.20.96	96526	98	93	119	ug/L
a,a,a-Trifluorotoluene Rep.		02.20.96	96526	117	115	50.0	ug/L
a,a,a-Trifluorotoluene Th.		02.20.96	96526	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9602321

DATE REPORTED : 02/22/96

Page 1

MATRIX QC PRECISION (DUPLICATE SPIKES)
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. BTEX	9602393*1						
Date Analyzed		02.20.96	96526	02/20/96	02/20/96	Date	N/A
Date Extracted		02.20.96	96526	02/20/96	02/20/96	Date	N/A
Benzene		02.20.96	96526	16.8	16.4	ug/L	2
Toluene		02.20.96	96526	94.8	89.5	ug/L	6
Ethylbenzene		02.20.96	96526	19.2	18.3	ug/L	5
Total Xylene Isomers		02.20.96	96526	117	111	ug/L	5
a,a,a-Trifluorotoluene Rep.		02.20.96	96526	58.6	57.6	ug/L	2
a,a,a-Trifluorotoluene Th.		02.20.96	96526	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9602321

DATE REPORTED : 02/22/96

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
1. BTEX	B6021048*1					
Date Analyzed	02.20.96	96526	02/20/96	NA	Date	8015M
Date Extracted	02.20.96	96526	02/20/96	NA	Date	8015M
Benzene	02.20.96	96526	0	0.3	ug/L	8015M
Toluene	02.20.96	96526	0	0.3	ug/L	8015M
Ethylbenzene	02.20.96	96526	0	0.3	ug/L	8015M
Total Xylene Isomers	02.20.96	96526	0	0.6	ug/L	8015M
a,a,a-Trifluorotoluene Rep.	02.20.96	96526	52.2	0.5	ug/L	8015M
a,a,a-Trifluorotoluene Th.	02.20.96	96526	50.0	NA	ug/L	8015M

: SURROGATE RECOVERIES :
:-BC ANALYTICAL : GLEN LAB : 12:24:30 22 FEB 1996 - P. 1 :
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METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9602321*1							
8015M.TXa	,a,a-Trifluorotoluene	Re96526	02/20/96	51.5	50.0	103	
9602321*3							
8015M.TXa	,a,a-Trifluorotoluene	Re96526	02/20/96	54.6	50.0	109	
9602321*4							
8015M.TXa	,a,a-Trifluorotoluene	Re96526	02/20/96	49.6	50.0	99	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9602393*1*R1							
8015M	a,a,a-Trifluorotoluene	Re96526	02/20/96	53.7	50.0	107	
9602393*1*S1							
8015M	a,a,a-Trifluorotoluene	Re96526	02/20/96	58.6	50.0	117	
9602393*1*S2							
8015M	a,a,a-Trifluorotoluene	Re96526	02/20/96	57.6	50.0	115	
9602393*1*T							
8015M	a,a,a-Trifluorotoluene	Re96526	02/20/96	50.0	50.0	100	
B6021048*1*MB							
8015M	a,a,a-Trifluorotoluene	Re96526	02/20/96	52.2	50.0	104	
C6022017*1*LC							
8015M	a,a,a-Trifluorotoluene	Re96526	02/20/96	61.7	50.0	123	Q
C6022017*1*LT							
8015M	a,a,a-Trifluorotoluene	Re96526	02/20/96	50.0	50.0	100	

801 Western Avenue
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818/247-5737
Fax: 818/247-9797

LOG NO: G96-01-054

Received: 03 JAN 96

Mailed: JAN 9 1996

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

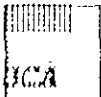
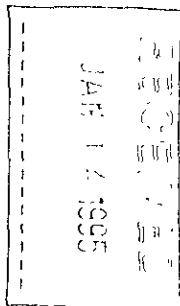
SAMPLE DESCRIPTION	DATE SAMPLED	TPH/BTEX (CADHS/8020)		TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylenes Isomers ug/L	Carbon Range
		Date Analyzed Date	Dilution Factor Times						
RDI			1	50	0.5	0.5	0.5	0.5	
1* C-111	01/02/96	01/05/96	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
2*B-B1-1	01/02/96	01/05/96	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
3*A-Inf	01/02/96	01/05/96	1	55	5.1	1.2	0.84	2.9	C6-C12
4* Inf	01/02/96	01/05/96	1	360	19	2.4	6.5	15	C6-C12

Karen Petryna
1177 Lincoln Ave., Alameda
Alameda County

Jane Winter for:
Jane Freemyer, Laboratory Director

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COPY

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SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
0601054*1	C-Eff	GAS.BTX.TESNC	01.05.96	8015M.TX	536-35	9644	6843
0601054*2	B-BT-1	GAS.BTX.TESNC	01.05.96	8015M.TX	536-35	9644	6843
0601054*3	A-Inf	GAS.BTX.TESNC	01.05.96	8015M.TX	536-35	9644	6843
0601054*4	Inf	GAS.BTX.TESNC	01.05.96	8015M.TX	536-35	9644	6843

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 G9601054

DATE REPORTED : 01/09/96

Page 1

LABORATORY CONTROL STANDARDS
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
L. BTEX/GRO	C6011023*1					
Date Analyzed	01.04.96	9644	01/04/96	01/04/96	Date	N/A
Benzene	01.04.96	9644	17.1	15.2	ug/L	113
Toluene	01.04.96	9644	89.8	97.4	ug/L	92
Ethylbenzene	01.04.96	9644	18.6	20.4	ug/L	91
Total Xylene Isomers	01.04.96	9644	102	119	ug/L	86
TPH (Gasoline Range)	01.04.96	9644	1110	1100	ug/L	101
a,a,a-Trifluorotoluene Rep.	01.04.96	9644	52.6	50.0	ug/L	105
a,a,a-Trifluorotoluene Th.	01.04.96	9644	50.0	50.0	ug/L	100

BC ANALYTICAL

ORDER QC REPORT FOR G9601054

DATE REPORTED : 01/09/96

Page 1

MATRIX QC ACCURACY (SPIKES)
 BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. GRO	9601034*2						
Benzene		01.05.96	9644	114	118	15.2	ug/L
Toluene		01.05.96	9644	92	94	97.4	ug/L
Ethylbenzene		01.05.96	9644	92	94	20.4	ug/L
Total Xylene Isomers		01.05.96	9644	87	88	119	ug/L
TPH (Gasoline Range)		01.05.96	9644	109	111	1100	ug/L
a,a,a-Trifluorotoluene Rep.		01.05.96	9644	101	104	50.0	ug/L
a,a,a-Trifluorotoluene Th.		01.05.96	9644	100	100	50.0	ug/L

BC ANALYTICAL

ORDER QC REPORT FOR G9601054

DATE REPORTED : 01/09/96

Page 1

MATRIX QC PRECISION (DUPLICATE SPIKES)
 BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
l. BTEX/GRO	9601034*2						
Date Analyzed		01.05.96	9644	01/05/96	01/05/96	Date	N/A
Benzene		01.05.96	9644	17.3	17.9	ug/L	3
Toluene		01.05.96	9644	89.4	91.6	ug/L	2
Ethylbenzene		01.05.96	9644	18.7	19.1	ug/L	2
Total Xylene Isomers		01.05.96	9644	103	105	ug/L	2
TPH (Gasoline Range)		01.05.96	9644	1200	1220	ug/L	2
a,a,a-Trifluorotoluene Rep.		01.05.96	9644	50.5	52.1	ug/L	3
a,a,a-Trifluorotoluene Th.		01.05.96	9644	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9601054

DATE REPORTED : 01/09/96

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
1. BTEX/GRO	B601523*1					
Date Analyzed	01.04.96	9644	01/04/96	NA	Date	8015M
Benzene	01.04.96	9644	0	0.3	ug/L	8015M
Toluene	01.04.96	9644	0	0.3	ug/L	8015M
Ethylbenzene	01.04.96	9644	0	0.3	ug/L	8015M
Total Xylene Isomers	01.04.96	9644	0	0.6	ug/L	8015M
TPH (Gasoline Range)	01.04.96	9644	0	100	ug/L	8015M
a,a,a-Trifluorotoluene Rep.	01.04.96	9644	48.1	0.5	ug/L	8015M
a,a,a-Trifluorotoluene Th.	01.04.96	9644	50.0	NA	ug/L	8015M

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9601054*1							
3015M.TXa	,a,a-Trifluorotoluene	Re9644	01/05/96	47.2	50.0	94	
9601054*2							
3015M.TXa	,a,a-Trifluorotoluene	Re9644	01/05/96	48.5	50.0	97	
9601054*3							
3015M.TXa	,a,a-Trifluorotoluene	Re9644	01/05/96	45.8	50.0	92	
9601054*4							
3015M.TXa	,a,a-Trifluorotoluene	Re9644	01/05/96	47.1	50.0	94	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
0601034*2*R1							
015M	a,a,a-Trifluorotoluene	Re9644	01/05/96	47.5	50.0	95	
0601034*2*S1							
015M	a,a,a-Trifluorotoluene	Re9644	01/05/96	50.5	50.0	101	
0601034*2*S2							
015M	a,a,a-Trifluorotoluene	Re9644	01/05/96	52.1	50.0	104	
0601034*2*T							
015M	a,a,a-Trifluorotoluene	Re9644	01/05/96	50.0	50.0	100	
0601523*1*MB							
015M	a,a,a-Trifluorotoluene	Re9644	01/04/96	48.1	50.0	96	
06011023*1*LC							
015M	a,a,a-Trifluorotoluene	Re9644	01/04/96	52.6	50.0	105	
06011023*1*LT							
015M	a,a,a-Trifluorotoluene	Re9644	01/04/96	50.0	50.0	100	

Client name: **GROUNDWATER TECHNOLOGY**
 Project or PO#: **02070006**
 Address: **1401 HALYARD DR #140**
 City State Zip: **W. SACRAMENTO CA**
 Report attention: **BRIAN GARBER**
 Phone #: **(916) 372 4700**
 Project location: **TES 127 LINCOLN, ALAMEDA**
 Analysis required: **BTEX/TPH-G**
 Hazardous sample special handling required: **Waters: G9601054**

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by	PRESERVATIVE		Number of containers	Analysis required										Remarks				
					ALL	ICE		BTEX/TPH-G														
1-2-96	1443		AQ	C-EFF	X	X	2	X														Cooler Temp: <u>m</u>
1-2-96	1445		AQ	B-BT-1	X	X	2	X														Sample Condition <u>Good</u>
1-2-96	1447		AQ	A-INF	X	X	2	X														
1-2-96	1449		AQ	INF	X	X	2	X														
~~~~~																						
1-2-96	1457		AIR	EFF - AIR			1	X														Air only C9601001
1-2-96	1458		AIR	INF TO 2ND - AIR			1	X														
1-2-96	1500		AIR	INF - AIR			1	X														FKCP1001U 624881450 KEP Alameda

Signature	Print Name	Company	Date
<i>[Signature]</i>	STEVEN STREM	GROUNDWATER TECH	11/3/96
<i>[Signature]</i>	Kimberly Eng	BCA	1/3/96
<i>[Signature]</i>	Kimberly Eng	BCA	1/4/96
Relinquished by			
Received by			
Relinquished by			
Received by			
Relinquished by			
Received by Laboratory			

301 Western Avenue  
 Glendale, CA 91201  
 818/247-5737  
 Fax: 818/247-9797

LOG NO: G95-12-103

Received: 06 DEC 95

Mailed: DEC 15 1995

Dr. Barry Guler  
 Groundwater Technology, Inc.  
 1301 Hildebrand Drive, Suite 140  
 San Francisco, California 95691

Purchase Order: 94-1446346+4370

Requisition: 624881450  
 Project: FKPE1001L

REPORT OF ANALYTICAL RESULTS

Page 1

AQUEOUS

SAMPLE OR SUBSTRATE	DATE SAMPLED	TPH/BTEX (CADHS/8020)		TPH-g ug/L	Benzene ug/L	Toluene ug/L	Ethyl- Benzene ug/L	Total Xylenes Isomers ug/L	Carbon Range
		Date Analyzed Date	Dilution Factor Times						
RM			1	50	0.5	0.5	0.5	0.5	
1-1-111	12/06/95	12/08/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
2-1-111	12/06/95	12/08/95	1	<50	<0.5	<0.5	<0.5	<0.5	C6-C12
3-1-111	12/06/95	12/08/95	1	63	7.2	1.9	0.72	5.3	C6-C12
4-1-111	12/06/95	12/08/95	1	820	100	22	4.5	57	C6-C12

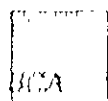
Laura Peterson  
 1177 Lincoln, Alameda  
 415-774-1000

*Jane Freemyer*  
 Jane Freemyer, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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CCNY



SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE.....	METHOD.....	EQUIP.	BATCH..	ID.NO
			ANALYZED				
9512103*1	C-EFF	GAS.BTX.TESNC	12.08.95	8015M.TX	536-23	955178	8171
9512103*2	B-BT-1	GAS.BTX.TESNC	12.08.95	8015M.TX	536-23	955178	8171
9512103*3	A-INF	GAS.BTX.TESNC	12.08.95	8015M.TX	536-23	955178	8171
9512103*4	INF	GAS.BTX.TESNC	12.08.95	8015M.TX	536-23	955178	8171

***

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 G9512103

DATE REPORTED : 12/15/95

Page 1

LABORATORY CONTROL STANDARDS  
FOR BATCHES WHICH INCLUDE THIS ORDER

PARAMETER	DATE ANALYZED	BATCH NUMBER	LC RESULT	LT RESULT	UNIT	PERCENT RECOVERY
1. GRO	C512829*1					
Date Analyzed	12.08.95	955178	12/08/95	12/08/95	Date	N/A
Benzene	12.08.95	955178	14.9	15.2	ug/L	98
Toluene	12.08.95	955178	91.5	97.4	ug/L	94
Ethylbenzene	12.08.95	955178	18.9	20.4	ug/L	93
Total Xylene Isomers	12.08.95	955178	113	119	ug/L	95
TPH (Gasoline Range)	12.08.95	955178	1050	1100	ug/L	95
a,a,a-Trifluorotoluene Rep.	12.08.95	955178	57.8	50.0	ug/L	116
a,a,a-Trifluorotoluene Th.	12.08.95	955178	50.0	50.0	ug/L	100

## BC ANALYTICAL

## ORDER QC REPORT FOR G9512103

DATE REPORTED : 12/15/95

Page 1

MATRIX QC ACCURACY (SPIKES)  
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS %	MSD %	TRUE RESULT	UNIT
1. GRO	9512104*2						
Benzene		12.08.95	955178	96	92	15.2	ug/L
Toluene		12.08.95	955178	91	88	97.4	ug/L
Ethylbenzene		12.08.95	955178	89	86	20.4	ug/L
Total Xylene Isomers		12.08.95	955178	92	88	119	ug/L
TPH (Gasoline Range)		12.08.95	955178	103	100	1100	ug/L
a,a,a-Trifluorotoluene Rep.		12.08.95	955178	109	108	50.0	ug/L
a,a,a-Trifluorotoluene Th.		12.08.95	955178	100	100	50.0	ug/L

## BC ANALYTICAL

ORDER QC REPORT FOR G9512103

DATE REPORTED : 12/15/95

Page 1

MATRIX QC PRECISION (DUPLICATE SPIKES)  
BATCH QC REPORT

PARAMETER	SAMPLE NUMBER	DATE ANALYZED	BATCH NUMBER	MS RESULT	MSD RESULT	UNIT	RELATIVE % DIFF
1. GRO	9512104*2						
Date Analyzed		12.08.95	955178	12/08/95	12/08/95	Date	N/A
Benzene		12.08.95	955178	14.6	14.0	ug/L	4
Toluene		12.08.95	955178	88.9	85.4	ug/L	4
Ethylbenzene		12.08.95	955178	18.2	17.5	ug/L	4
Total Xylene Isomers		12.08.95	955178	109	105	ug/L	4
TPH (Gasoline Range)		12.08.95	955178	1130	1100	ug/L	3
a,a,a-Trifluorotoluene Rep.		12.08.95	955178	54.5	54.2	ug/L	1
a,a,a-Trifluorotoluene Th.		12.08.95	955178	50.0	50.0	ug/L	0

BC ANALYTICAL

ORDER QC REPORT FOR G9512103

DATE REPORTED : 12/15/95

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
1. GRO	B512434*1					
Date Analyzed	12.08.95	955178	12/08/95	NA	Date	8015M.TX
Benzene	12.08.95	955178	0	0.5	ug/L	8015M.TX
Toluene	12.08.95	955178	0	0.5	ug/L	8015M.TX
Ethylbenzene	12.08.95	955178	0	0.5	ug/L	8015M.TX
Total Xylene Isomers	12.08.95	955178	0	0.5	ug/L	8015M.TX
TPH (Gasoline Range)	12.08.95	955178	0	50	ug/L	8015M.TX
a,a,a-Trifluorotoluene Rep.	12.08.95	955178	48.1	NA	ug/L	8015M.TX
a,a,a-Trifluorotoluene Th.	12.08.95	955178	50.0	NA	ug/L	8015M.TX



METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9512103*1							
8015M.TXa	,a,a-Trifluorotoluene	Re955178	12/08/95	47.6	50.0	95	
9512103*2							
8015M.TXa	,a,a-Trifluorotoluene	Re955178	12/08/95	50.1	50.0	100	
9512103*3							
8015M.TXa	,a,a-Trifluorotoluene	Re955178	12/08/95	49.3	50.0	99	
9512103*4							
8015M.TXa	,a,a-Trifluorotoluene	Re955178	12/08/95	50.4	50.0	101	

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9512104*2*R1							
8015M.TXa	a,a-Trifluorotoluene	Re955178	12/08/95	54.2	50.0	108	
9512104*2*S1							
8015M.TXa	a,a-Trifluorotoluene	Re955178	12/08/95	54.5	50.0	109	
9512104*2*S2							
8015M.TXa	a,a-Trifluorotoluene	Re955178	12/08/95	54.2	50.0	108	
9512104*2*T							
8015M.TXa	a,a-Trifluorotoluene	Re955178	12/08/95	50.0	50.0	100	
B512434*1*MB							
8015M.TXa	a,a-Trifluorotoluene	Re955178	12/08/95	48.1	50.0	96	
C512829*1*LC							
8015M.TXa	a,a-Trifluorotoluene	Re955178	12/08/95	57.8	50.0	116	
C512829*1*LT							
8015M.TXa	a,a-Trifluorotoluene	Re955178	12/08/95	50.0	50.0	100	

