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Division	WASTE MANAGEMENT
Section	SUPERFUND
Program	IHS (IHS)
DocCat	FACILITY

Burlington Menswear

A division of Burlington Industries

Executives Offices
P.O. Box 788
Clarksville, Va. 23927
(804) 374-8111

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ENV. MANAGEMENT
FAYETTEVILLE REG. OFFICE

April 15, 1994

Mr. Stephen A. Barnhardt
DEHNR
Division of Environmental Mgmt.
Wachovia Building, Suite 714
Fayetteville, NC 28301-5043

Re: Burlington Industries - BMD Plt.
Groundwater Remediation Update
Raeford, NC Plant Site
Incident No. 5531

Dear Mr. Barnhardt:

As requested in your 3/16/94 letter, Burlington is submitting the following information as an update on the groundwater remediation activities at the Raeford Facility (BMD Plant) site.

Burlington continues to operate a groundwater recovery well near the wastewater pre-treatment lagoon and former UST site. The recovery well was lowered two feet on 8/20/93 to improve the groundwater recovery rate. Current rates are approximately 147 gal/day compared to the initial rate of 112 gal/day (see table 3).

On 3/25/94, samples were collected from all monitoring wells for analysis. Results are tabulated in Table 1. The data indicates that while clean-up rates are slow, the plume of contamination is being contained on the Burlington site (See attachment for monitor well locations.)

Table 2 contains water level measurements for the wells. A cone of depression map will be completed in approximately two weeks for the site. These results will be sent to the DEM.

Burlington proposes the following:

- Continue operation of the recovery well system.
- Conduct a follow-up sampling event in July 1994.
- Submit a site remediation update to the DEQ by 8/19/94.

If you have questions or comments, please contact me at 804-374-3514.

Sincerely,

G. Mike Garlick
Div. Environmental Engineer

GMG/dr

cc: T. Fripp - BMEO
F. Sessoms - BMD
Plant Engineer - BMD
T. LeJuene - 3330/Energy

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TABLE 1

TOTAL PURGEABLE HOLOCARBON "HITS" IN MONITORING WELLS FROM LABORATORY ANALYTICAL RESULTS

Monitoring Well	11/15/90	7/12/91	10/31/91	1/16/92	2/13/92	10/23/92	3/25/94
	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)
MW-4 (UPGRADIENT)	BQL	-	-	-	-	-	BQL
MW-5S	-	4*	-	-	-	-	6
MW-5i	-	28	60	-	-	48	55
MW-6S	386	-	-	-	-	-	140
MW-6i	-	52	63	-	-	105	127
MW-6D	-	-	-	23	32	36	13
RW-1 (RECOVERY WELL)	-	-	-	-	-	-	69
MW-7	-	115	60	-	-	-	13
MW-8	-	-	-	BQL	-	-	2@
MW-9	-	-	-	36	81	27	45
MW-10	-	-	-	BQL	-	-	BQL

← THIS IS UG/L

NOTE: The recovery well started removing water on 8/24/92.
The recovery pump was lowered two feet on 8/20/93.

BQL = Below Quantitation Limit
\- = not sampled
* = Purgeable Aromatics tested only
@ = Bromodichloromethane only. Poss. a false reading.

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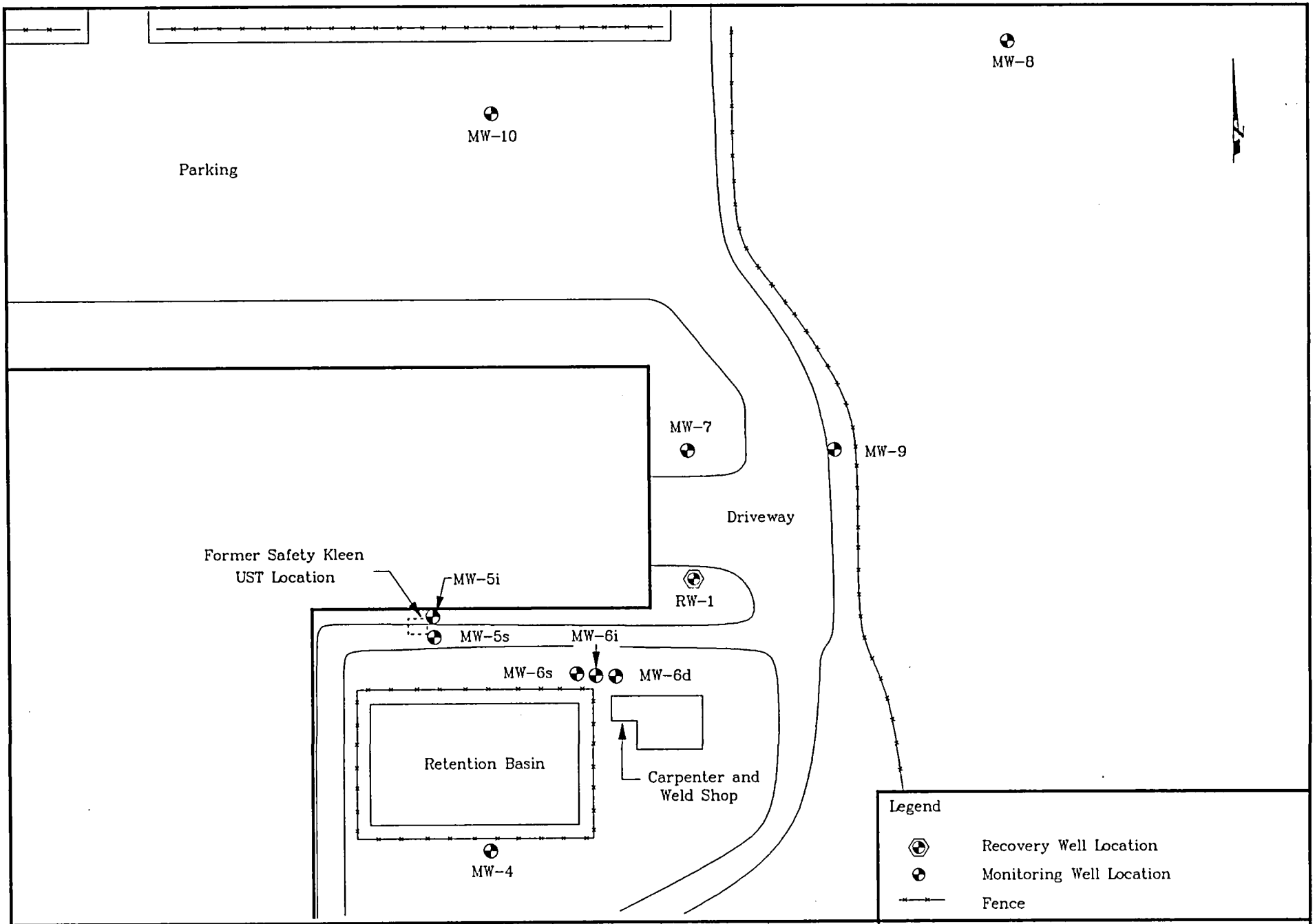


AQUATERRA, INC.
Raleigh, Greensboro, Charlotte
NORTH CAROLINA

Author	Drawing	Layers	Date	Title
LSG	467-2	0,1,2	03-16-92	Monitoring Well Location Map
Job No.	**Revision**	**Figure**	**Scale**	**Project**
467	3-10-93	2	1" = 100'	Burlington Industries, Inc. Raeford, North Carolina

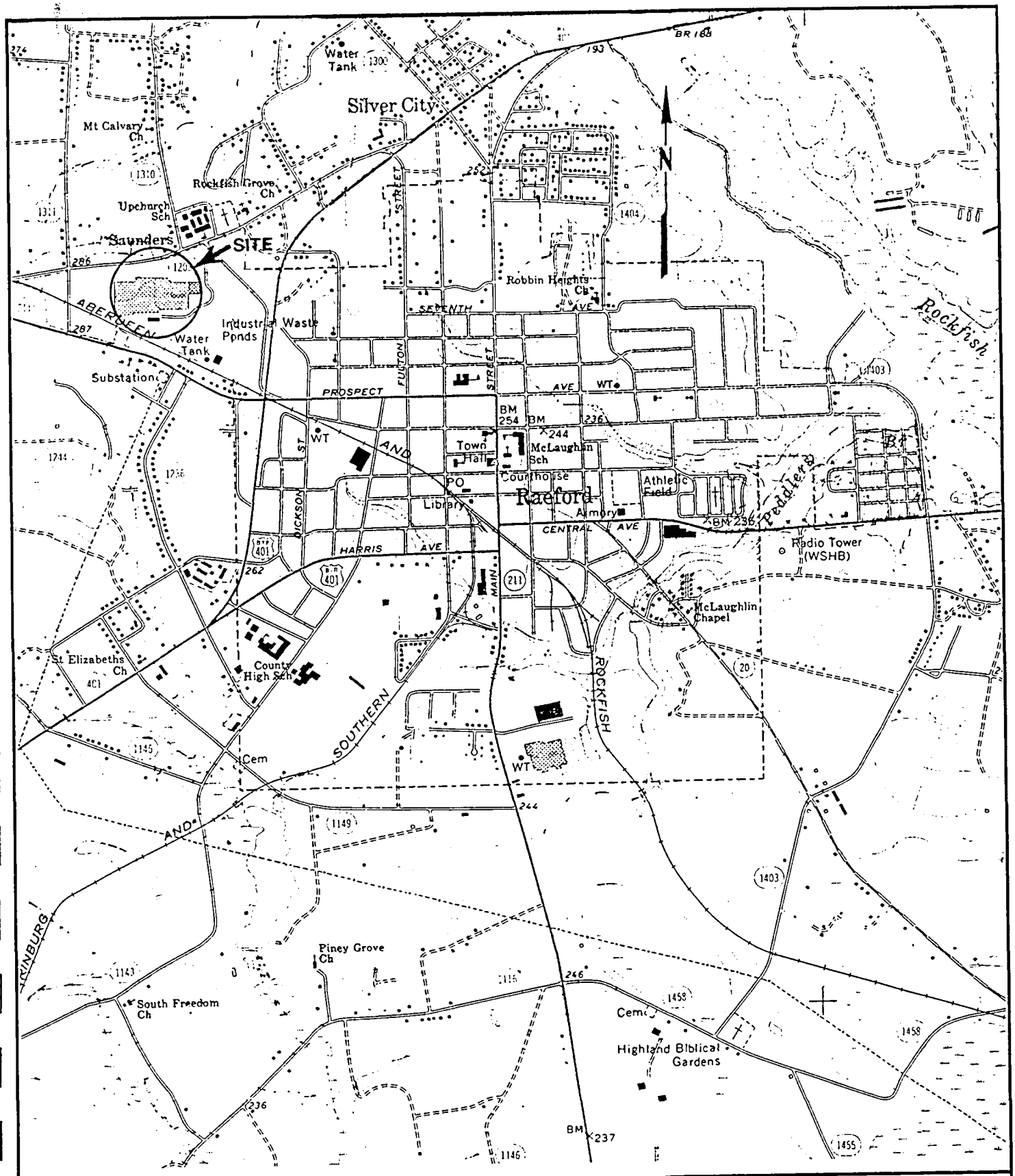
TABLE 2

WELL NO.	TOCE (FT.)	DTW (FT) 2/19/93	DTW (FT) 5/11/93	3/25/94
MW-4	99.35	5.81	5.92	6.29
MW-5S	100.23	7.92	7.42	7.77
MW-5i	100.41	21.69	22.25	21.94
MW-6S	99.26	7.85	7.92	8.05
MW-6i	99.40	22.44	22.50	22.38
MW-6d	99.40	50.58	48.79	52.50
MW-7	99.98	11.89	12.00	11.93
MW-8	87.52	8.42	8.50	8.01
MW-9	96.32	10.41	10.42	10.53
MW-10	98.22	7.54	7.42	8.48
RW-1	98.79	23.65	24.67	

TOCE = TOP OF CASING RELATIVE EVALUATION
DTW = DEPTH TO WATER BELOW TOP OF CASING

DATE	TOTALIZER READING (GAL)	AVE. RECOVERY RATE
1/19/93	19,982	112 GAL/DAY
5/11/93	31,110	137 GAL/DAY
3/18/94	70,325	128 GAL/DAY
4/15/94	74,431	147 GAL/DAY

START-UP = 8/24/92
PUMP LOWERING BY 2 FEET = 8/20/93



AQUATERRA, INC. Raleigh, Greensboro, Charlotte NORTH CAROLINA	Author LSG	Drawing 467	Layers 0.1	Date 2-10-93	Title Site Location Map
	Job No. 467	Revision 0	Figure 1	Scale 1" = 2000'	Project Burlington Industries, Inc. Raeford, North Carolina

Post Office Box 12846
Research Triangle Park, NC 27709

Phone 919-677-0090
Fax 919-677-0427

IEA
An Aquarion Company

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April 8, 1994

Sharon Myers
Aquaterra, Inc.
4901 Water's Edge Dr.
Raleigh, NC 27606

IEA Project No.: 196287/9403616
IEA Reference No.: W9403584
Client Project I.D.: 2146700

Dear Ms. Myers,

Transmitted herewith are the results of analyses on 12 samples submitted to our laboratory.

The sample(s) were received chilled and intact.

Analyses were performed according to approved methodologies and meet the requirements of the IEA Quality Assurance Program except where noted. Please see the enclosed reports for your results and a copy of the Chain of Custody documentation.

Thank you for selecting IEA for your sample analysis. Please do not hesitate to call your project manager representative at 1-919-677-0090 or 1-800-444-9919 should you have any questions regarding this report. We look forward to serving you in the future.

Very truly yours,

IEA, Inc.

Stephanie R. Drago
for
William R. Drago
Laboratory Director

State Certification:

Georgia - #816	Tennessee - #00296	Alabama - #40210
New Jersey - #67719	Virginia - #00179	South Carolina - #99021
California - #1768	West Virginia - #9908C	North Carolina - #37720/#84
Massachusetts - NC039	Kentucky - #90049	Kansas - E-158/E-1189

Table 1. **Ground Water Elevation Data, March 25, 1994 – Burlington Industries, Inc., Raeford, North Carolina.**

Well No.	Top of Casing	Depth to Water	Ground Water Elevation
MW-4	99.35	6.29	93.06
MW-5s	100.17	7.77	92.40
MW-5i	100.37	21.94	78.43
MWR-6s	99.26	8.05	91.21
MW-6i	99.40	22.38	77.02
MW-6d	99.40	52.50	46.90
MW-7	99.98	11.93	88.05
MW-8	87.52	8.01	79.51
MW-9	96.32	10.53	85.79
MW-10	98.22	8.48	89.74

All units in feet.

Aquaterra Job Number 2146700

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	N/A
IEA Sample Number:	9403616	Date Sampled:	N/A
Client Name:	Aquaterra Inc.	Date Analyzed:	04/05/94
Client Project ID:	2146700	Analysis By:	Ware
Sample Identification:	QC Blank	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit
N/A = Not Applicable
Corresponding Samples: 9403616-04, 12

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	N/A
IEA Sample Number:	9403616	Date Sampled:	N/A
Client Name:	Aquaterra Inc.	Date Analyzed:	04/04/94
Client Project ID:	2146700	Analysis By:	Eischen
Sample Identification:	QC Blank	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit
N/A = Not Applicable
Corresponding Samples: 9403616-01, 02, 03, 05 through 11

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-12	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/06/94
Client Project ID:	2146700	Analysis By:	Collins
Sample Identification:	Trip	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-01	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/04/94
Client Project ID:	2146700	Analysis By:	Ware
Sample Identification:	MW-4	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-02	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/04/94
Client Project ID:	2146700	Analysis By:	Ware
Sample Identification:	MW-5S	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	6
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-03	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/05/94
Client Project ID:	2146700	Analysis By:	Ware
Sample Identification:	MW-5i	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	2
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	31
9	1,1-Dichloroethane	1.0	17
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	1
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	3
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-04	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/06/94
Client Project ID:	2146700	Analysis By:	Collins
Sample Identification:	MW-6S	Dilution Factor:	2.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	140
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit
Quantitation limit elevated due to sample dilution prior to analysis.
Sample diluted due to high concentration of target compounds present.

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-05	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/05/94
Client Project ID:	2146700	Analysis By:	Collins
Sample Identification:	MW-6i	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	1
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	17
9	1,1-Dichloroethane	1.0	15
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	3
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	1
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	45
27	1,3-Dichlorobenzene	1.0	1
28	1,2-Dichlorobenzene	1.0	14
29	1,4-Dichlorobenzene	1.0	30

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-06	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/05/94
Client Project ID:	2146700	Analysis By:	Ware
Sample Identification:	MW-6d	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	2
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	3
14	Carbon tetrachloride	1.0	3
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	2
29	1,4-Dichlorobenzene	1.0	3

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-07	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/05/94
Client Project ID:	2146700	Analysis By:	Ware
Sample Identification:	MW-7	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	2
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	9
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	2

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-08	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/05/94
Client Project ID:	2146700	Analysis By:	Ware
Sample Identification:	MW-8	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	2
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-09	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/05/94
Client Project ID:	2146700	Analysis By:	Ware
Sample Identification:	MW-9	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	1
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	19
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	21
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	1
29	1,4-Dichlorobenzene	1.0	3

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-11	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/05/94
Client Project ID:	2146700	Analysis By:	Ware
Sample Identification:	EW-1 (RW-1)	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	4
9	1,1-Dichloroethane	1.0	7
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	6
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	38
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	4
29	1,4-Dichlorobenzene	1.0	10

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

Industrial & Environmental Analysts, Inc. (IEA)
PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Project Number:	196-287	Date Received:	03/28/94
IEA Sample Number:	9403616-10	Date Sampled:	03/25/94
Client Name:	Aquaterra Inc.	Date Analyzed:	04/05/94
Client Project ID:	2146700	Analysis By:	Ware
Sample Identification:	MW-10	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

Comments:
Qualitative identifications performed using single GC column confirmation.
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.
BQL = Below Quantitation Limit

FORM 601 REV. 020494

IEA

3000 WESTON PKWY
CARY, N.C. 27513
PH # 919-677-0000
FAX # 919-677-0427
An Aquarion Company

CHAIN OF CUSTODY RECORD

NO: 47188

REGULATORY CLASSIFICATION - PLEASE SPECIFY
☐ NPDES ☑ DRINKING WATER ☐ RCRA ☐ OTHER

COMPANY: AQUATERRA

Page 1 of 2

PROJECT NAME: Wilsford

SAMPLERS (SIGNATURE)

SAMPLE ID	DATE	TIME	E	G	STATION LOCATION	# OF CONTAINERS	MATRIX SOIL	MATRIX WATER	REQUESTED PARAMETERS									
MW04	3-28-94	11:25		✓		3		✓	3									
MW05		10:12		✓		3		✓	3									
MW06		10:30		✓		3		✓	2									
MW03		10:55		✓		3		✓	3									
MW01		11:10		✓		3		✓	3									
MW02		11:35		✓		3		✓	3									
MW07		12:30		✓		3	4	✓	3									
MW08		12:30		✓		3		✓	3									
MW09		12:15		✓		3		✓	3									
MW12		12:45		✓		3		✓	3									

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME	IEA QUOTE NO.	IEA RUSH NO.
	3/28						

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME	PROJECT MANAGER (PLEASE PRINT)	P.O. NO.
	3-28-94	3:47					

REMARKS ON SAMPLE RECEIPT: ☐ BOTTLE INTACT ☐ CUSTODY SEALS ☐ RESERVED ☐ SEALS INTACT ☐ CHILLED ☐ SEE REMARKS

REMARKS

IEA REMARKS

IEA
An Aquarion Company
3000 WESTON PKWY.
CARY, N.C. 27513
PH # 919-677-0090
FAX # 919-677-0427

CHAIN OF CUSTODY RECORD

NO: 47189

REGULATORY CLASSIFICATION - PLEASE SPECIFY
☐ NPDES ☐ DRINKING WATER ☐ RCRA ☐ OTHER

COMPANY: AQUATERRA

Page 2 of 2

PROJECT #	PROJECT NAME
2146700	B.F. Raffordo

SAMPLERS (SIGNATURE): James O. Sinclair

SAMPLE ID	DATE	TIME	PROJ	DATE	STATION LOCATION	# OF CONTAINERS	MATRIX SOIL	MATRIX WATER	REQUESTED PARAMETERS
EW-1	3-25-94	1:30		✓				✓	[illegible]
TREP	3-25-94	1:15		✓		3		✓	[illegible]
									[illegible]
									[illegible]
									[illegible]
									[illegible]
									[illegible]
									[illegible]
									[illegible]
									[illegible]

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME	IEA QUOTE NO.	IEA RUSH NO.
[illegible]	3/25	3:00	James O. Sinclair	3/25	3:01		

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY	DATE	TIME	PROJECT MANAGER (PLEASE PRINT)	P.O. NO.
James O. Sinclair	3-25-94	3:41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

REMARKS ON SAMPLE RECEIPT
☐ BOTTLE INTACT ☐ CUSTODY SEALS
☐ PRESERVED ☐ SEALS INTACT
☐ CHILLED ☐ SEE REMARKS

IEA REMARKS

FIELD REMARKS