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**GROUNDWATER MONITORING  
VALIDATED ANALYTICAL RESULTS FOR THE FIRST QUARTER 1998  
ASH LANDFILL, SENECA ARMY DEPOT**

**PREPARED FOR :**

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Table 1

**GROUNDWATER MONITORING PROGRAM  
FIRST QUARTER 1998  
GROUNDWATER ELEVATION DATA  
SENECA ARMY DEPOT ACTIVITY**

Monitoring Well	Elevation at Top of Riser (MSL)	Fourth Quarter 1996			First Quarter 1997			Second Quarter 1997			First Quarter 1998		
		Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)
<b>Ash Landfill</b>													
PT-10	681.52	01/06/97	5.31	676.21	03/18/97	5.3	676.22	06/17/97	9.03	672.49	03/23/98	4.62	676.9
PT-11	658.22	01/06/97	4.19	654.03	03/18/97	4.41	653.81	06/17/97	6.23	651.99	03/23/98	4.24	653.98
PT-12A	652.15	01/06/97	4.25	647.9	03/18/97	5.85	646.3	06/17/97	7.53	644.62	03/23/98	3.14	649.01
PT-15	637.76	01/06/97	5.05	632.71	03/18/97	4.59	633.17	06/17/97	6.48	631.28	03/23/98	4.02	633.74
PT-16	637.51	01/06/97	3.02	634.49	03/18/97	2.93	634.58	06/17/97	4.05	633.46	03/23/98	2.8	634.71
PT-17	640.14	01/06/97	4.7	635.44	03/18/97	4.75	635.39	06/17/97	7.4	632.74	03/23/98	4.29	635.85
PT-18	656.68	01/06/97	4.97	651.71	03/18/97	5.55	651.13	06/17/97	7.09	649.59	03/23/98	4.4	652.28
PT-19	645.26	01/06/97	3.18	642.08	03/18/97	3.34	641.92	06/17/97	5.34	639.92	03/23/98	2.17	643.09
PT-20	647.28	01/06/97	5.74	641.54	03/18/97	5.72	641.56	06/17/97	7.21	640.07	03/23/98	4.94	642.34
PT-21A	647.73	01/06/97	6.09	641.64	03/18/97	5.19	642.54	06/17/97	8.21	639.52	03/23/98	3.89	643.84
PT-22	648.61	01/06/97	6.5	642.11	03/18/97	6.63	641.98	06/17/97	7.61	641	03/23/98	4.31	644.3
PT-23	641.58	01/06/97	3.44	638.14	03/18/97	3.94	637.64	06/17/97	6.37	635.21	03/23/98	3.66	637.92
PT-24	636.40	01/06/97	4.64	631.76	03/18/97	4.69	631.71	06/17/97	5.04	631.36	03/23/98	3.64	632.76
PT-25	637.09	01/06/97	3.96	633.13	03/18/97	3.92	633.17	06/17/97	5.96	631.13	03/23/98	3.58	633.51
PT-26	614.64	01/06/97	Not Measured	Not Measured	03/18/97	Not Measured	Not Measured	06/17/97	Not Measured	Not Measured	03/23/98	3.04	611.6
MW-27	639.32	01/06/97	5.21	634.11	03/18/97	5.25	634.07	06/17/97	6.48	632.84	03/23/98	4.44	634.88
MW-28	637.21	01/06/97	5.22	631.99	03/18/97	5.18	632.03	06/17/97	5.61	631.6	03/23/98	4.64	632.57
MW-29	637.31	01/06/97	6.14	631.17	03/18/97	6.09	631.22	06/17/97	6.65	630.66	03/23/98	6.1	631.21
MW-30	640.32	01/06/97	4.2	636.12	03/18/97	4.33	635.99	06/17/97	8.35	631.97	03/23/98	3.94	636.38
MW-31	636.70	01/06/97	2.92	633.78	03/18/97	2.96	633.74	06/17/97	5.3	631.4	03/23/98	2.48	634.22
MW-32	641.68	01/06/97	4.53	637.15	03/18/97	4.95	636.73	06/17/97	7.93	633.75	03/23/98	3.84	637.84
MW-33	639.56	01/06/97	4.29	635.27	03/18/97	4.44	635.12	06/17/97	7.45	632.11	03/23/98	3.91	635.65
MW-34	632.89	01/06/97	3.07	629.82	03/18/97	3.22	629.67	06/17/97	4.63	628.26	03/23/98	2.74	630.15
MW-35D	631.82	01/06/97	Not Measured	Not Measured	03/18/97	Not Measured	Not Measured	06/17/97	Not Measured	Not Measured	03/23/98	2.6	629.22
MW-36	631.79	01/06/97	3.30	628.49	03/18/97	2.46	629.33	06/17/97	3.58	628.21	03/23/98	2.60	629.19
MW-37	632.89	01/06/97	2.48	630.41	03/18/97	2.59	630.3	06/17/97	Not Measured	Not Measured	03/23/98	2.51	630.38
MW-38D	637.90	01/06/97	3.7	634.2	03/18/97	3.61	634.29	06/17/97	Not Measured	Not Measured	03/23/98	3.48	635.39
MW-39	659.54	01/06/97	2.06	657.48	03/18/97	1.78	657.76	06/17/97	2.09	657.45	03/23/98	1.7	657.84
MW-40	659.30	01/06/97	3.64	655.66	03/18/97	3.64	655.66	06/17/97	5.78	653.52	03/23/98	3.45	655.85
MW-41D	694.02	01/06/97	6.1	687.92	03/18/97	6.45	687.57	06/17/97	Not Measured	Not Measured	03/23/98	8.12	685.9
MW-42D	683.04	01/06/97	4.79	678.25	03/18/97	2.61	680.43	06/17/97	4.73	678.31	03/23/98	2.37	680.67
MW-43	657.73	01/06/97	2.9	654.83	03/18/97	3.84	653.89	06/17/97	3.72	654.01	03/23/98	2.6	655.13
MW-44	653.85	01/06/97	3.74	650.11	03/18/97	4.7	649.15	06/17/97	6.9	646.95	03/23/98	3.48	650.37
MW-45	650.90	01/06/97	2.94	647.96	03/18/97	2.83	648.07	06/17/97	3.9	647	03/23/98	2.85	648.05
MW-46	650.41	01/06/97	3.72	646.69	03/18/97	4.51	645.9	06/17/97	6.06	644.35	03/23/98	2.88	647.53
MW-47	628.06	01/06/97	2.88	625.18	03/18/97	2.88	625.18	06/17/97	4.22	623.84	03/23/98	2.3	625.76
MW-48	648.32	01/06/97	3.26	645.06	03/18/97	3.31	645.01	06/17/97	5.3	643.02	03/23/98	2.86	645.46
MW-49D	650.50	01/06/97	3.6	646.9	03/18/97	4.32	646.18	06/17/97	5.91	644.59	03/23/98	2.88	647.62
MW-50D	649.88	01/06/97	3.6	646.28	03/18/97	4.09	645.79	06/17/97	5.88	644	03/23/98	2.48	647.4
MW-51D	628.24	01/06/97	2.99	625.25	03/18/97	3	625.24	06/17/97	4.35	623.89	03/23/98	2.35	625.89
MW-52D	626.35	01/06/97	2.38	623.97	03/18/97	2.6	623.75	06/17/97	3.62	622.73	03/23/98	2.3	624.05
MW-53	639.41	01/06/97	6.6	632.81	03/18/97	6.6	632.81	06/17/97	7.7	631.71	03/23/98	5.78	633.63
MW-54D	639.11	01/06/97	6.55	632.56	03/18/97	6.56	632.55	06/17/97	7.69	631.42	03/23/98	5.92	633.19
MW-55D	639.16	01/06/97	6.34	632.82	03/18/97	6.36	632.8	06/17/97	7.47	631.69	03/23/98	5.86	633.3
MW-56	630.51	01/06/97	3.09	627.42	03/18/97	3.05	627.46	06/17/97	3.48	627.03	03/23/98	3.13	627.38
MW-57D	629.82	01/06/97	1.82	628	03/18/97	1.95	627.87	06/17/97	2.76	627.06	03/23/98	1.69	628.13
MW-58D	629.69	01/06/97	1.51	628.18	03/18/97	1.73	627.96	06/17/97	2.56	627.13	03/23/98	1.32	628.37
MW-59	656.83	01/06/97	2.1	654.73	03/18/97	2.16	654.67	06/17/97	2.15	654.68	03/23/98	2.13	654.7
MW-60	660.15	01/06/97	1.97	658.18	03/18/97	2.14	658.01	06/17/97	2.98	657.17	03/23/98	1.95	658.2

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2024-2025

**Table 2**  
**Ash Landfill**  
**1998 First Quarter Groundwater Monitoring**  
**Validated Volatile Organic Analyses Results (Method 524.2)**

SAMPLE ID	AL132	AL131	AL130	AL134	AL140	AL158	AL141
WELL ID	BNS	FHD	FHS	MW27	MW30	MW36(DU)	MW36
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	3/18/98	3/18/98	3/18/98	3/28/98	3/27/98	3/26/98	3/26/98
SDG NO.	68675	68675	68675	68675	68675	68675	68675
COMPOUND	UNITS						
Dichlorodifluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-1-Butyl-Ether	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
2,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-Pentanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,3 - Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
Tetrahydrofuran	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
Dibromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropan	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U



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**Table 2**  
**Ash Landfill**  
**1998 First Quarter Groundwater Monitoring**  
**Validated Volatile Organic Analyses Results (Method 524.2)**

SAMPLE ID	AL159	AL142	AL146	AL148	AL149	AL151	AL153
WELL ID	MW36(R)	MW40	MW45	MW47	MW48	MW56	MW59
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	3/26/98	3/24/98	3/28/98	3/25/98	3/28/98	3/26/98	3/24/98
SDG NO.	68675	68675	68675	68675	68675	68675	68675
COMPOUND	UNITS						
Dichlorodifluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl-t-Butyl-Ether	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.68	0.5 U
2-Butanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
2,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-Pentanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.79	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,3 - Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane	ug/L	50 U	50 U	50 UJ	50 U	50 UJ	50 U
Tetrahydrofuran	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
Dibromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Propylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
n-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropan	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U



**Table 2**  
**Ash Landfill**  
**1998 First Quarter Groundwater Monitoring**  
**Validated Volatile Organic Analyses Results (Method 524.2)**

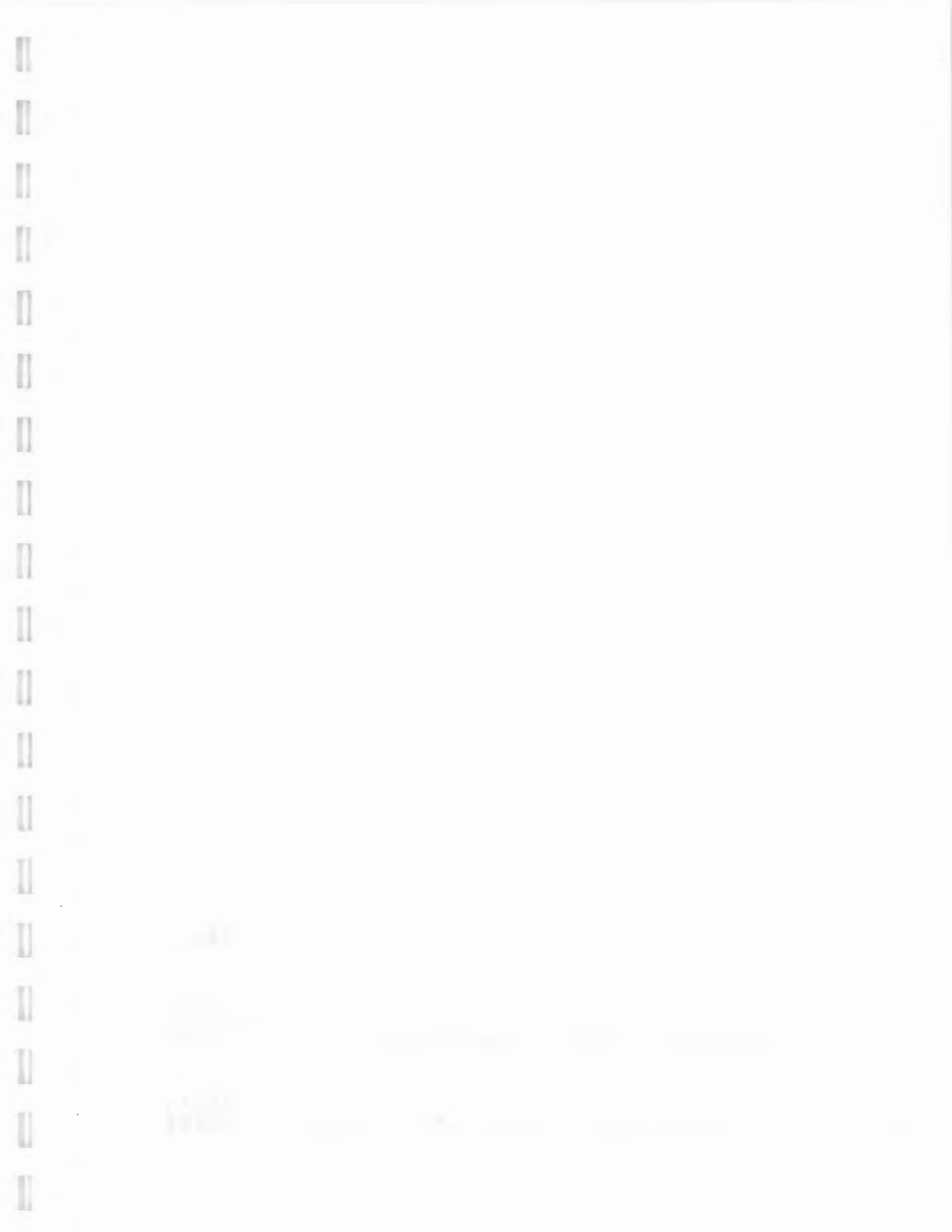
SAMPLE ID	AL154	AL155	AL138		
WELL ID	MW60	PT11	PT19		
MATRIX	WATER	WATER	WATER		
SAMPLE DATE	3/24/98	3/25/98	3/27/98		
SDG NO.	68675	68675	68675		
<b>COMPOUND</b>	<b>UNITS</b>			<b>Data Qualifiers:</b>	
Dichlorodifluoromethane	ug/L	0.5 U	0.5 U	0.5 U	U Compound Not Detected At Instrument Detection Limit
Chloromethane	ug/L	0.5 U	0.5 U	0.5 U	
Vinyl Chloride	ug/L	0.5 U	0.5 U	0.5 U	J Concentration Estimated
Bromomethane	ug/L	0.5 U	0.5 U	0.5 U	
Chloroethane	ug/L	0.5 U	0.5 U	0.5 U	R Data Rejected Because of QA/QC exceedences or Sample Contamination
Trichlorofluoromethane	ug/L	0.5 U	0.5 U	0.5 U	
Acetone	ug/L	5 U	17	5 U	
1,1-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	
trans-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	
Carbon Disulfide	ug/L	0.5 U	0.5 U	0.5 U	
Methylene Chloride	ug/L	0.5 U	0.5 U	0.5 U	
Methyl-t-Butyl-Ether	ug/L	0.5 U	0.5 U	0.5 U	
1,1-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	
cis-1,2-Dichloroethene	ug/L	0.5 U	0.5 U	0.5 U	
2-Butanone	ug/L	5 U	5 U	5 U	
2,2-Dichloropropane	ug/L	0.5 U	0.5 U	0.5 U	
Chloroform	ug/L	0.5 U	0.5 U	0.5 U	
Bromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	
1,1,1-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	
1,1-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	
Carbon Tetrachloride	ug/L	0.5 U	0.5 U	0.5 U	
1,2-Dichloroethane	ug/L	0.5 U	0.5 U	0.5 U	
Benzene	ug/L	0.5 U	0.5 U	0.5 U	
Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U	
1,2-Dichlorooctopane	ug/L	0.5 U	0.5 U	0.5 U	
Bromodichloromethane	ug/L	0.5 U	0.5 U	0.5 U	
Dibromomethane	ug/L	0.5 U	0.5 U	0.5 U	
4-Methyl-2-Pentanone	ug/L	5 U	5 U	5 U	
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	
Toluene	ug/L	0.5 U	0.5 U	0.5 U	
trans-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	
1,1,2-Trichloroethane	ug/L	0.5 U	0.5 U	0.5 U	
2-Hexanone	ug/L	5 U	5 U	5 U	
1,3 - Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	
Tetrachloroethene	ug/L	0.5 U	0.5 U	0.5 U	
1,4-Dioxane	ug/L	50 U	50 U	50 U	
Tetrahydrofuran	ug/L	50 U	50 U	50 U	
Dibromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	
1,2-Dibromoethane	ug/L	0.5 U	0.5 U	0.5 U	
Chlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	
1,1,1,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	
Ethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	
Xylene (total)	ug/L	0.5 U	0.5 U	0.5 U	
Styrene	ug/L	0.5 U	0.5 U	0.5 U	
Bromoform	ug/L	0.5 U	0.5 U	0.5 U	
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U	
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	
1,2,3-Trichloropropane	ug/L	0.5 U	0.5 U	0.5 U	
Bromobenzene	ug/L	0.5 U	0.5 U	0.5 U	
n-Propylbenzene	ug/L	0.5 U	0.5 U	0.5 U	
2-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	
1,3,5-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	
4-Chlorotoluene	ug/L	0.5 U	0.5 U	0.5 U	
tert-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	
1,2,4-Trimethylbenzene	ug/L	0.5 U	0.5 U	0.5 U	
sec-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	
p-Isopropyltoluene	ug/L	0.5 U	0.5 U	0.5 U	
1,3-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	
1,4-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	
n-Butylbenzene	ug/L	0.5 U	0.5 U	0.5 U	
1,2-Dichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	
1,2-Dibromo-3-Chloropropan	ug/L	0.5 U	0.5 U	0.5 U	
1,2,4-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	
Hexachlorobutadiene	ug/L	0.5 U	0.5 U	0.5 U	
Naphthalene	ug/L	0.5 U	0.5 U	0.5 U	
1,2,3-Trichlorobenzene	ug/L	0.5 U	0.5 U	0.5 U	



**Table 3**  
**Ash Landfill**  
**1998 First Quarter Groundwater Monitoring**  
**Validated TCL Volatile Organic Analysis Results**

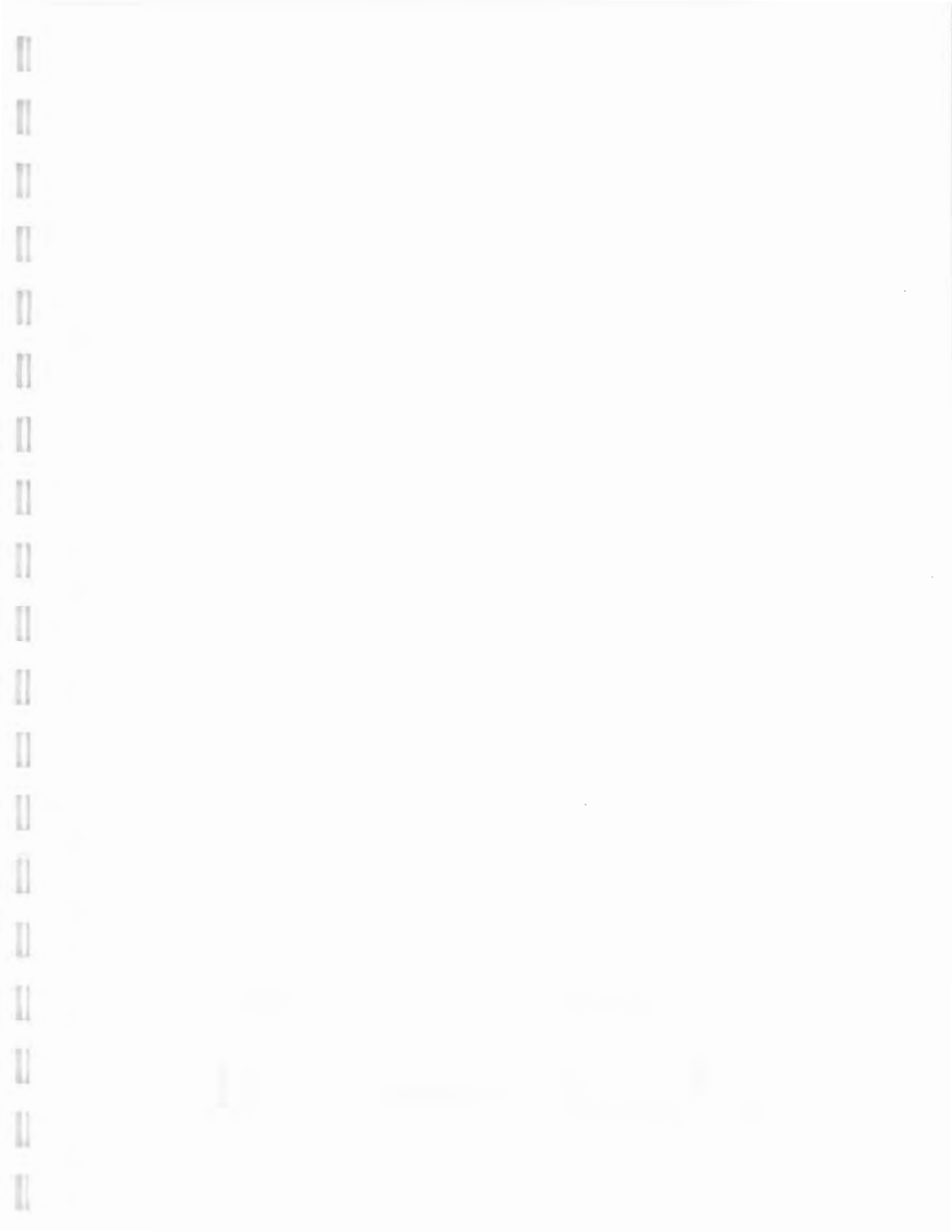
	WELL ID	PT-12A	MW-29	MW-29	MW-29 (R)	MW-44A	MW-46	PT-18	PT-21A	PT-24
	SAMPLE ID	AL156	AL139	AL160	AL161	AL 145	AL147	AL135	AL133	AL136
	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	SAMPLE DATE	3/28/98	3/28/98	3/28/98	3/28/98	3/29/98	3/28/98	3/29/98	3/28/98	3/30/98
	LAB ID	355000	355013	355015	355006R1	355011	355009	355007	355002	354998
	SDG NUMBER	68755	68755	68755	68755	68755	68755	68755	68755	68755
		Duplicate								
COMPOUND	UNITS									
Chloromethane	ug/L	49 UJ	3 UJ	3 UJ	1 U	15 UJ	1 UJ	5 UJ	1 UJ	5 UJ
Bromomethane	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
Vinyl Chloride	ug/L	15 J	3 U	3 U	1 U	71	0.3 J	5 U	1 U	5 U
Chloroethane	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
Methylene Chloride	ug/L	98 U	6 U	6 U	2 U	29 U	2 U	10 U	2 U	9 U
Acetone	ug/L	240 U	15 U	15 U	5 U	73 U	5 U	26 U	5 U	23 U
Carbon Disulfide	ug/L	170 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
1,1-Dichloroethene	ug/L	170 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
1,1-Dichloroethane	ug/L	170 U	3 U	3 U	1 U	4 J	1 U	5 U	1 U	5 U
1,2-Dichloroethene (total)	ug/L	1300	70	72	1 U	360	63 J	3 J	3	92
Chloroform	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	2 J	1 U	5 U
1,2-Dichloroethane	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
2-Butanone	ug/L	240 U	15 U	15 U	5 U	73 U	5 U	26 U	5 U	23 U
1,1,1-Trichloroethane	ug/L	49 U	0.9 J	0.9 J	1 U	15 U	1 U	5 U	1 U	5 U
Carbon Tetrachloride	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
Bromodichloromethane	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
1,2-Dichloropropane	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
cis-1,3-Dichloropropene	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
Trichloroethene	ug/L	920	2 J	2 J	1 U	13 J	34 J	130	0.5 J	6
Dibromochloromethane	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
1,1,2-Trichloroethane	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
Benzene	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
trans-1,3-Dichloropropene	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
Bromoform	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
4-Methyl-2-Pentanone	ug/L	240 U	15 U	15 U	5 U	73 U	5 U	26 U	5 U	23 U
2-Hexanone	ug/L	240 UJ	15 UJ	15 UJ	5 U	73 UJ	5 UJ	26 UJ	5 UJ	23 UJ
Tetrachloroethene	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
Toluene	ug/L	49 U	3 U	3 U	1 U	15 U	0.2 J	5 U	1 U	5 U
Chlorobenzene	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
Ethylbenzene	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
Styrene	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U
Xylene (total)	ug/L	49 U	3 U	3 U	1 U	15 U	1 U	5 U	1 U	5 U

U - Compound not detected at instrument detection limit  
J - Concentration estimated due to QA/QC exceedences



**Table 4**  
**Ash Landfill**  
**1998 First Quarter Groundwater Monitoring**  
**Validated Metals Analytical Results**

WELL ID	PT-18	PT-21A	PT-26	MW-29	MW-29	MW-29	MW-43	MW-44A	
ES ID	AL135	AL133	AL137	AL139	AL160	AL161	AL144	AL145	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
SAMPLE DATE	3/30/98	3/28/98	3/25/98	03/29/98	3/29/98	3/29/98	3/27/98	3/29/98	
LAB ID	355007	355002	354881	355013	355015	355006	354934	355011	
SDG NO.	68755	68755	68675	68755	68755	68755	68675	68675	
					Duplicate	Rinsate			
COMPOUND	UNITS								
Aluminium	ug/l	31.2	131	452	362	224	52.1	47.7	51.8
Antimony	ug/l	10.7 U	10.7	11.6	10.7 U	10.7 U	14.6	10.7 U	10.7 U
Arsenic	ug/l	5 U	5	6.7	5 U	5 U	7.3	5 U	5.8
Barium	ug/l	39.6	65.1	80.7	52.2 B	53.3	7.6 U	28.5	58.8
Beryllium	ug/l	0.3 U	0.31	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.37
Cadmium	ug/l	0.7 U	0.7	0.7 U	0.7 U	0.7 U	1.2	0.7 U	0.7 U
Calcium	ug/l	161000	176000	110000	138000	147000	190 U	98500	449000
Chromium	ug/l	2.4	7.8	9.9	2 U	4.1	4.1	2 U	11.5
Cobalt	ug/l	3.7 U	3.7	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Copper	ug/l	8.3	7.7	9.2	3.4 U	5.6	6.6	3.4 U	11.3
Iron	ug/l	186	582	786	378	363	84.4	115	462
Lead	ug/l	2.6 U	2.6	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Magnesium	ug/l	21900	39900	42500	168000	18400	197 U	9310	104000
Manganese	ug/l	7.7	317	5.8	10.6	2.1	1.4	2.6	491
Mercury	ug/l	0.1 U	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	ug/l	3.5 U	3.5	3.5 U	3.5 U	7 U	4.5	3.5 U	3.5 U
Potassium	ug/l	4120	12600	1960	802	871	239	393	32800
Selenium	ug/l	3.1 UJ	3.1	4.1 J	3.1 UJ	3.1 UJ	3.1 UJ	3.4 UJ	4.9 J
Silver	ug/l	2.6 U	3.2	5.6	2.6 U	2.6 U	6.5	2.6 U	3.6
Sodium	ug/l	20300	39500	28200	16600	19600	1920	9430	89200
Thallium	ug/l	6.7 UJ	7 J	7.5 J	6.7 UJ	6.7 UJ	6.7 UJ	5.7 UJ	6.7 U
Vanadium	ug/l	5.2 U	5.2	8.1	5.2 U	5.2 U	6.6	5.2 U	7.6
Zinc	ug/l	741	9.5	4.8	5.8	1.9 U	42.6	2.6	7.2
Cyanide	ug/l	5 U	5	5 U	5 U	5 U	5 U	5 U	5 U



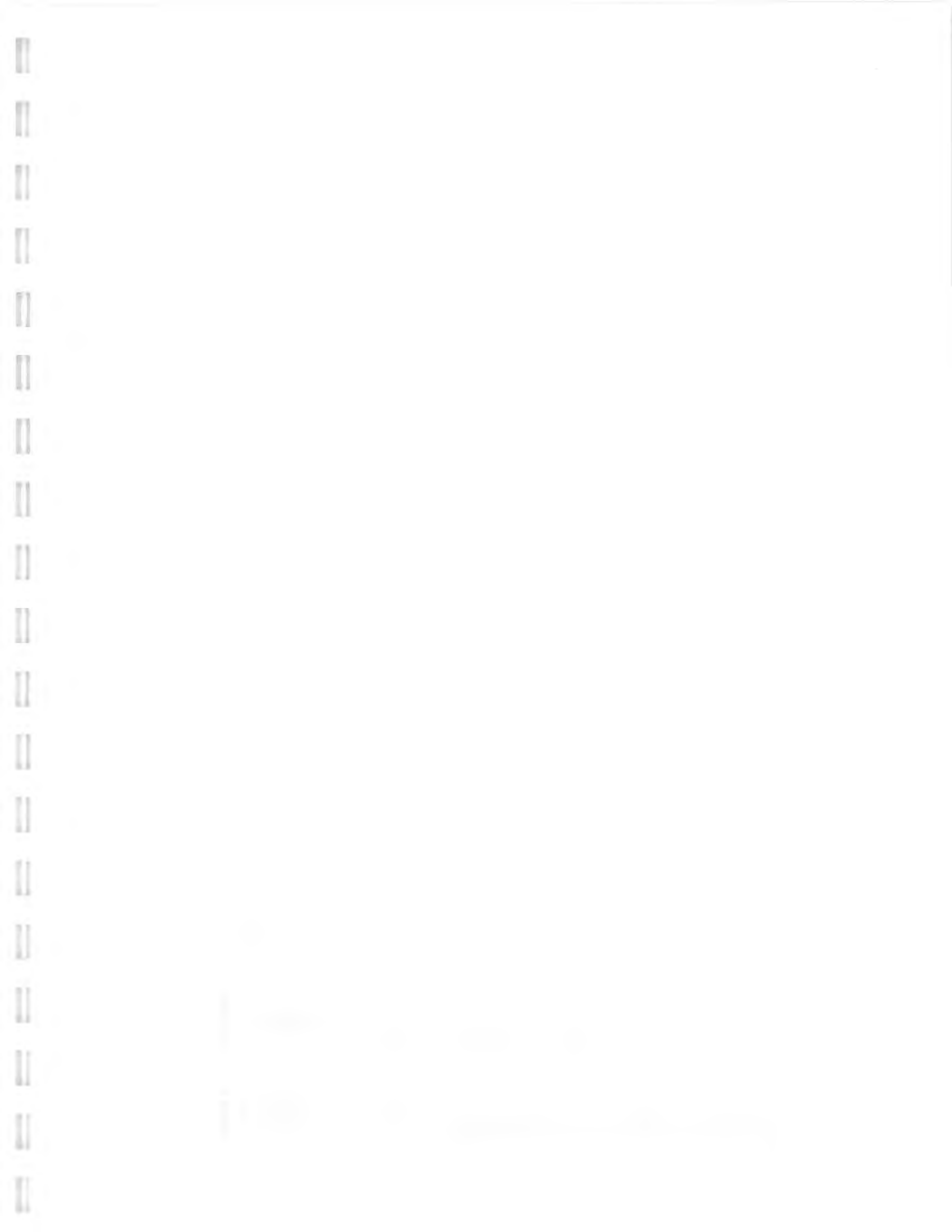


**Table 4**  
**Ash Landfill**  
**1998 First Quarter Groundwater Monitoring**  
**Validated Metals Analytical Results**

WELL ID	MW-45	MW-46	MW-47	MW-48	MW-52D	MW-53	MW-56	MW-57D	MW-58D
ES ID	AL146	AL147	AL148	AL149	AL157	AL150	AL151	AL153	AL152
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	03/29/98	3/28/98	3/25/98	3/28/98	3/26/98	3/27/98	3/27/98	3/26/98	3/26/98
LAB ID	354979	355009	354883	354981	354930	354933	354925	354924	354926
SDG NO.	68675	68755	68675	68675	68675	68675	68675	68675	68675

COMPOUND	UNITS	MW-45	MW-46	MW-47	MW-48	MW-52D	MW-53	MW-56	MW-57D	MW-58D
Aluminium	ug/l	81.2	104	244	113	13400	101	794	698	3800
Antimony	ug/l	10.7 U	10.7 U	10.7 U	10.7 U	13.6	10.7 U	10.7 U	17.9	13.2
Arsenic	ug/l	5 U	5 U	5 U	5 U	6.6	5 U	5 U	6.6	6.9
Barium	ug/l	42.9	57	38.4	27.2	176	50.8	38.7	59.1	74.2
Beryllium	ug/l	0.3 U	0.3 U	0.3 U	0.3 U	0.78	0.3 U	0.3 U	0.3 U	0.33
Cadmium	ug/l	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Calcium	ug/l	104000	155000	101000	80000	12600	131000	102000	2540	6250
Chromium	ug/l	2 U	3.3	5.2	2 U	13 U	3.1	6.5	5.3	8.5
Cobalt	ug/l	3.7 U	3.7 U	3.7 U	3.7 U	5.2	3.7 U	3.7 U	3.7 U	4.4
Copper	ug/l	3.4 U	4.7	6.8	3.4 U	10.3	4.4	6.1	6.5	6.6
Iron	ug/l	166	284	527	205	9880	248	1100	799	5300
Lead	ug/l	2.6 U	2.6 U	2.6 U	2.6 U	6.1 U	2.6 U	2.6 U	2.6 U	2.6 U
Magnesium	ug/l	12300	19000	11600	10000	5450	17000	12300	670	2040
Manganese	ug/l	0.8 U	23.2	14.7	0.8 U	130	0.8 U	14.3	14.5	83.1
Mercury	ug/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	ug/l	3.5 U	3.5 U	3.5 U	3.5 U	13.3	3.7	3.5 U	4.8	9.6
Potassium	ug/l	721	1000	940	1120	4010	1110	1050	1550	2030
Selenium	ug/l	3.1 UJ	3.1 UJ	5.4 J	3.1 UJ	3.1 UJ	3.1 UJ	3.1 UJ	3.1 UJ	3.1 UJ
Silver	ug/l	2.6 U	2.6 U	3.1	2.6 U	3.8	2.6 U	2.6 U	6	4.5
Sodium	ug/l	10400	13800	12800	7680	101000	22300	12900	137000	126000
Thallium	ug/l	5.7 UJ	6.7 UJ	5.7 UJ	5.7 UJ	5.7 UJ	5.7 UJ	5.7 UJ	6.1 J	5.7 UJ
Vanadium	ug/l	5.2 U	5.2 U	5.5	5.2 U	16.1	5.2 U	6.8	8.6	10.3
Zinc	ug/l	6.1	4.6	4.2	1.9 U	29	2.1	6.8	5.9	16.9
Cyanide	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U



**Table 5**  
**Ash Landfill**  
**1998 First Quarter Groundwater Monitoring**  
**Indicator Parameters**

Well ID	pH (units)	Spec. Cond. (umhos/cm)	Redox Pot. (mV)	DO (mg/l)	Fe+2 (mg/l)	Methane (mg/l)	Ethane (mg/l)	Ethene (mg/l)	DOC (mg/l)	Nitrate/Nitrite (mg/l)	Tot. Alkalinity (mg/l CaCO3)	Sulfate (mg/l)	Chloride (mg/l)
PT-11	6.85	981	301	4.37	0.01	0.0027	<0.0021	<0.0025	2.7	0.17	300	144	23.7
PT-12A	6.69	1530	423	1.67	0.04	0.0032	<0.0021	<0.0025	2.4	0.18	334	458	115
PT-18	6.56	807	343	0.4	0.01	0.058	<0.0021	<0.0025	4.3	0.14	368	140	10.9
PT-19	6.56	423	148	0.1	0.8	0.086	<0.0021	<0.0025	3	0.25	208	24.3	13.5
PT-21A	6.95	1095	241	0.58	0.1	0.0082	<0.0021	<0.0025	1.8	0.63	244	218	117
PT-24	6.7	664	358	5.82	0	<0.0012	<0.0021	<0.0025	1.8	0.78	254	128	22.1
PT-26	6.73	795	404	6.67	na	na	na	na	na	na	na	na	na
MW-27	7.05	552	314	7.13	0.22	<0.0012	<0.0021	<0.0025	2.8	2.18	258	70.2	18.9
MW-29	6.56	699	343	7.39	0.02	<0.0012	<0.0021	<0.0025	1.9	0.69	308	119	13.5
MW-29DUP	na	na	na	na	0.02	<0.0012	<0.0021	<0.0025	2.2	0.71	310	121	14.3
MW-30	6.82	494	294	4	0.06	<0.0012	<0.0021	<0.0025	1.9	0.11	240	45.7	16.9
MW-36	6.84	672	311	0.54	0.02	<0.0012	<0.0021	<0.0025	1.5	1.91	260	56.3	18.2
MW-40	6.89	583	288	2.46	0.02	<0.0012	<0.0021	<0.0025	1.8	0.06	246	69.9	7.9
MW-43	6.8	473	295	0.37	na	na	na	na	na	na	na	na	na
MW-44A	6.95	2700	400	1.9	0.02	0.0034	<0.0021	<0.0025	7.3	0.09	202	841	414
MW-45	6.69	516	423	2.09	0.04	<0.0012	<0.0021	<0.0025	1.7	0.03	264	39.4	11.3
MW-46	6.66	748	196	0.22	0.05	0.0047	<0.0021	<0.0025	2.6	<0.01	276	144	31.7
MW-47	6.75	526	318	1.79	0.04	<0.0012	<0.0021	<0.0025	1.9	0.49	230	49	18.4
MW-48	6.93	389	288	0.71	0.02	<0.0012	<0.0021	<0.0025	2.5	0.04	198	31.2	7.6
MW-52D	8.47	480	211	0.79	na	na	na	na	na	na	na	na	na
MW-53	6.56	679	334	6.37	na	na	na	na	na	na	na	na	na
MW-56	6.73	584	305	1.92	0.13	<0.0012	<0.0021	<0.0025	1.7	1.39	246	61.3	18.4
MW-57D	8.81	591	181	0.18	na	na	na	na	na	na	na	na	na
MW-58D	8.94	614	86	0.15	na	na	na	na	na	na	na	na	na
MW-59	6.47	2000	299	0.52	0.03	<0.0012	<0.0021	<0.0025	4.5	0.73	516	172	23.9
MW-60	4.37	519	285	0.12	0.01	<0.0012	<0.0021	<0.0025	1.8	0.02	220	29	19.8
FH-S	na	na	na	na	na	na	na	na	na	na	na	na	na
FH-D	na	na	na	na	na	na	na	na	na	na	na	na	na
BN-S	na	na	na	na	na	na	na	na	na	na	na	na	na

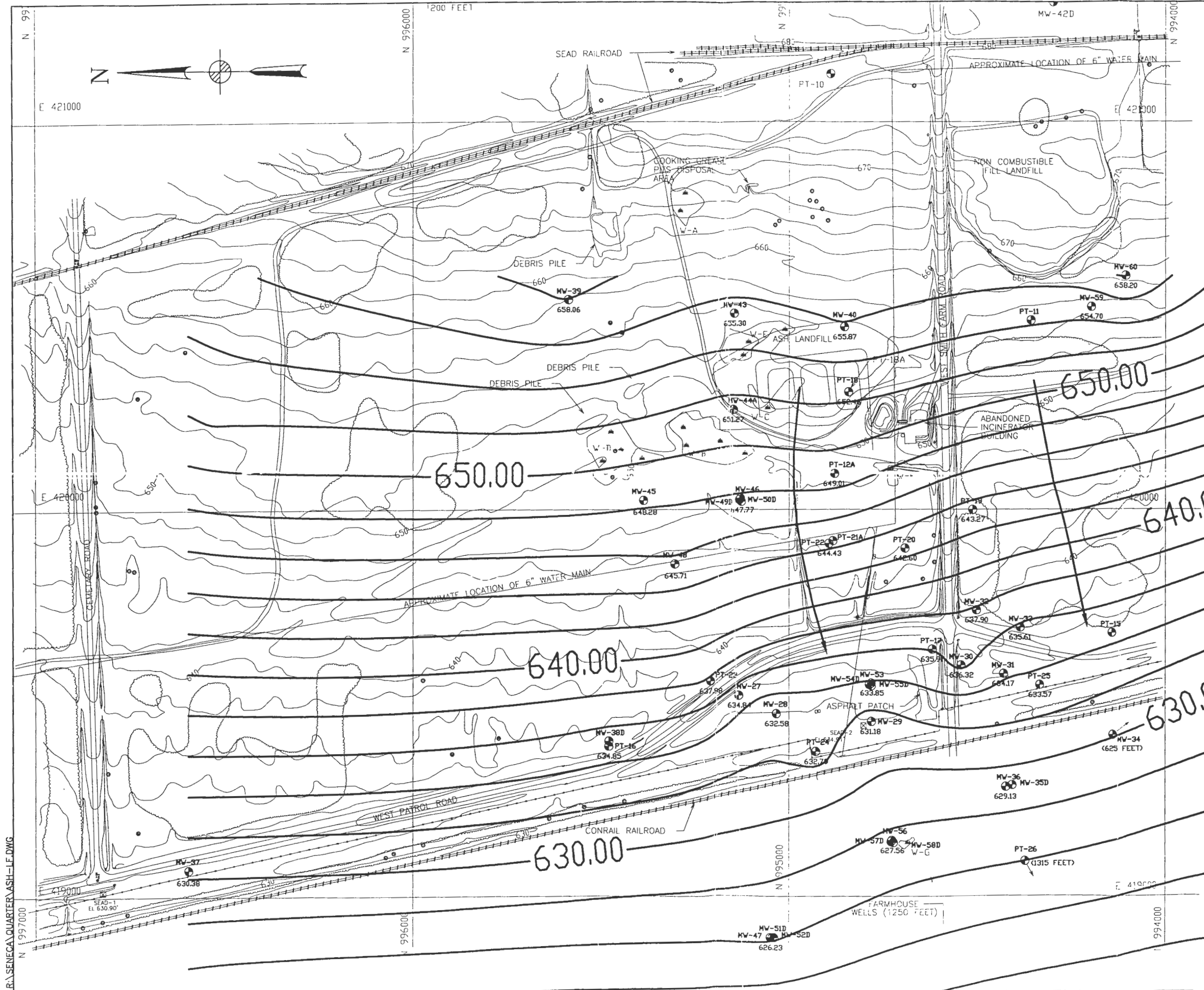
na - not analyzed



**FIGURES**

Figure 1 Ash Landfill Groundwater Elevation Map

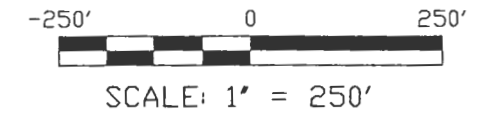




**LEGEND:**

- PAVED ROAD
- DIRT ROAD
- GROUND CONTOUR AND ELEVATION
- TREE
- WETLAND & DESIGNATION
- APPROXIMATE EXTENT OF FILL
- OUTLINE OF FORMER TRASH PITS (IDENTIFIED FROM AERIAL PHOTO)
- APPROXIMATE EXTENT OF DEBRIS PILE
- BRUSH
- CHAIN LINK FENCE
- UTILITY POLE
- APPROXIMATE LOCATION OF FIRE HYDRANT
- FUEL OR UNDERGROUND STORAGE TANK
- SURVEY MONUMENT
- SEAD-1 EL. 630.90'
- 655.30 MONITORING WELL, DESIGNATION AND WATER TABLE ELEVATION
- WM-43
- 650.00 GROUNDWATER ELEVATION CONTOUR
- 650.00 GROUNDWATER FLOW DIRECTION

NOTE:  
GROUNDWATER ELEVATION DATA  
COLLECTED MARCH 23, 1998



**P PARSONS**  
**PARSONS ENGINEERING SCIENCE, INC.**

CLIENT/PROJECT TITLE  
**SENECA ARMY DEPOT ACTIVITY  
GROUNDWATER MONITORING PROGRAM  
ASH LANDFILL - FIRST QUARTER 1998**

DEPT: ENVIRONMENTAL ENGINEERING      DWG No: 730789-01005

**FIGURE No. 1  
GROUNDWATER CONTOUR MAP FOR THE  
TILL/WEATHERED SHALE AQUIFER**

SCALE: AS NOTED      DATE: APRIL 1998      REV: 0

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## **APPENDIX A**

### **FIELD DATA**

1. Groundwater Sampling Field Notes
2. Chain-of-Custody Forms



**1. Groundwater Sampling Field Notes**



# SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: <u>MW PT-11</u>
PROJECT: <u>1st Quarterly Monitoring - 1998</u>	DATE: <u>3/24/98</u>	INSPECTORS: <u>KKS</u>
SWMU # (AREA): <u>Ash Landfill</u>	SOP NO.: <u>17</u>	PUMP #: <u>N/A</u>

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
3/24/98	0930	25°F	Sunny			muddy	OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN		
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10	
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	19.52	N/A			
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE	PUMPING START TIME
	Ø	4.20	2.5	17.5	0940
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/24/98	1038	< 0.1	2.8	6.09	981	6.85	301	4.37	59.5
<del>Dry well</del> - Sample					3/25/98				
Pumped well to near dryness -									

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

MW PT-18

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/40 ml	VOA	AL135	
<del>1A</del>	<del>MYSCLP</del>		HCL	3/40 ml	VOA	AL135	1300 KKS
2	Methane/ Ethane/Ethene		HCL	3/40ml	VOA	↓	↓
3	METALS		HNO3	1/1 L	HDPE		
4	CN		NAOH	1/1 L	HDPE		
5	DOC (filtered)		H2SO4	2/40ml	VOA		
6	ALK./SULF./CHLOR.		NONE	1/1 L	HDPE		
7	NITRATE/ NITRITE		H2SO4	1/1L	HDPE		
8	FE+2 (field tested)						
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/29/98		
VOLUME:	2.5		
DRUM #, LOCATION:	ASH-5W		

**COMMENTS:**

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW PT-19
PROJECT: 1st Quarterly Monitoring - 1998		DATE: 3/27/98
SWMU # (AREA): Ash Landfill		INSPECTORS: KKS
SOP NO.: 17		PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		

HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN		WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND	
	11.37		6.7'							
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME	
	158		1.75'		1.6		9.0		1143	
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)				PUMP AFTER SAMPLING (cps)					

MONITORING DATA COLLECTED DURING PURGING OPERATIONS									
DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Et	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/27/98 1203 hrs	1203	0.6	5.0	5.31	423	6.56	148	0.10	3.95

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW PT-19

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL138	3/27/98 #205	
1A	- NYSCLP	HCL	3/ 40 ml	VOA			
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA			
<del>3</del>	<del>METALS</del>	HNO3	1/ 1 L	HDPE			
<del>4</del>	<del>CN</del>	NAOH	1/ 1 L	HDPE			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)						
		0.80 mg/l					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/27/98			
VOLUME:	5 gal			
DRUM #, LOCATION:	ASH-5W			

COMMENTS: PT-19 has a broken riser at just below Ground Surface. Surface water and debris can enter the well.



## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-21A
PROJECT: 1st Quarterly Monitoring - 1998	DATE: 3/28/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
		20.4'	<del>7</del> 15.4'		
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
	1.0	4.24	2.6	18.0'	1045
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/28/98	1130	0.16	2.75	11.77	1095	6.95	241	0.58	4.00

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-21A

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA 524.2	HCL	3/40 ml	VOA	1	3/28/98	
1A	- NYSCLP	HCL	3/40 ml	VOA	AL133	1130	KKS
2	Methane/ Ethane/Ethene	HCL	3/40ml	VOA	↓	↓	↓
3	METALS	HNO3	1/1 L	HDPE			
4	CN	NAOH	1/1 L	HDPE			
5	DOC (filtered)	H2SO4	2/40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/1L	HDPE			
8	FE+2 (field tested)	0.10 mg/l					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/28/98			
VOLUME:	3 gal			
DRUM #, LOCATION:	ASH-5W			

**COMMENTS:**

# SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW PT-24
PROJECT: 1st Quarterly Monitoring - 1998	DATE: 3/28/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

DIAMETER (INCHES): GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	2	3	4	5	6	7	8	9	10	
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
		11.90'	6.70'		
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
	1.5	3.3'	1.4	9.0'	
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/28/98	1650	0.62	1.8	5.96	664	6.70	358	5.82	2.2

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.      CLIENT: USACOE      WELL #: MW PT-24

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA		3/28/98	
1A	- NYSCLP	HCL	3/ 40 ml	VOA	AL136	1650	KES
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	↓	↓	↓
3	METALS	HNO3	1/ 1 L	HDPE			
4	CN	NAOH	1/ 1 L	HDPE			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)	0.00 mg/l					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?      YES       NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?      YES       NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/28/98			
VOLUME:	1.8 gal			
DRUM #, LOCATION:	ASH-5W			

COMMENTS:

**SAMPLING RECORD - GROUNDWATER**

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW PT-26
PROJECT: 1st Quarterly Monitoring - 1998	DATE: 3/25/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

DIAMETER (INCHES): GALLONS / FOOT:	1	1.5	2	3	4	5	6	7	8	9	10	STANDING WATER VOLUME = WELL DIAMETER FACTOR • WATER COLUMN
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV TURBIDITY	WELL DEV pH	WELL DEV SPEC. COND
	14.00	9.0'			
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE <del>(DEPTH TO S)</del>	PUMPING START TIME
	Ø	3.02'	1.8	11.5'	1012
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

**MONITORING DATA COLLECTED DURING PURGING OPERATIONS**

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/25/98	1217	0.12	6.0	5.5	795	6.73	404	6.67	14.0

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.			CLIENT: USACOE		WELL #: <b>MTW PT-26</b>		
SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1 <del>VOA-524.2</del>		HCL	3/ 40 ml	VOA		3/25/98	
1A <del>NTSCIP</del>		HCL	3/ 40 ml	VOA			
2 <del>Methane/ Ethane/ Ethene</del>		HCL	3/ 40ml	VOA			
3 METALS		HNO3	1/ 1 L	HDPE	AL137	1220	KES
4 CN		NAOH	1/ 1 L	HDPE	↓	↓	KES
5 <del>DOC (filtered)</del>		H2SO4	2/ 40ml	VOA			
6 <del>ALK./SULF./CHLOR.</del>		NONE	1/ 1 L	HDPE			
7 <del>NITRATE/ NITRITE</del>		H2SO4	1/ 1L	HDPE			
8 <del>FE+2 (field tested)</del>							
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?      YES       NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?      YES       NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/25/98			
VOLUME:				
DRUM #, LOCATION:	On Ground			

COMMENTS:

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-27
PROJECT: <b>1st Quarterly Monitoring - 1998</b>		DATE: <b>3/28/98</b>
SWMU # (AREA): <b>Ash Landfill</b>		INSPECTORS: <b>KKS</b>
SOP NO.: <b>17</b>		PUMP #: <b>N/A</b>

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	10.34	5.0			
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH POS - 2.11)	PUMPING START TIME
	Q	4.20'	1 gal	9.0	3/28 0945
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/27/98	1540	Remove one well volume - very slow well							
3/28/98	0959	0.2	0.6	7.51	552	7.05	314	7.13	27

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-27

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL134	3/28/98 1010	KGS
<del>1A</del>	<del>VOA-524.2</del>	<del>HCL</del>	<del>3/ 40 ml</del>	<del>VOA</del>	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA			
<del>3</del>	<del>METALS</del>	<del>HNO3</del>	<del>1/ 1 L</del>	<del>HDPE</del>			
<del>4</del>	<del>CN</del>	<del>NAOH</del>	<del>1/ 1 L</del>	<del>HDPE</del>			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)	0.22 mg/l					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/28/98			
VOLUME:	1.6 gal			
DELM # LOCATION:	On Ground			

COMMENTS:



## SAMPLING RECORD - GROUNDWATER

<b>PARSONS ENGINEERING - SCIENCE, INC.</b>	CLIENT: <b>USACOE</b>	WELL #: <b>MW-29</b>
PROJECT: <b>1st Quarterly Monitoring - 1998</b>	DATE: <b>3/29/98</b>	
SWMU # (AREA): <b>Ash Landfill</b>	INSPECTORS: <b>KKS</b>	
SOP NO.: <b>17</b>	PUMP #: <b>N/A</b>	

WEATHER / FIELD CONDITIONS CHECKLIST						(RECORD MAJOR CHANGES)	MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
3/29/98	0930	67°F	Sunny			Muddy	OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
		10.54'	5.0'		

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
	1.0	5.95	0.75	8.0	0955

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	EH	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/29/98	1019	520	2.9	5.45	699	6.56	343	7.39	5.5

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-29

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
<del>1</del>			<del>3/40 ml</del>	<del>VOA</del>		<del>3/29/98</del>	
1A	-NYSCLP	HCL	3/40 ml	VOA	AL-139	1020	KKS
2	Methane/ Ethane/Ethene	HCL	3/40ml	VOA			
3	METALS	HNO3	1/1 L	HDPE			
4	CN	NAOH	1/1 L	HDPE			
5	DOC (filtered)	H2SO4	2/40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/1L	HDPE			
8	FE+2 (field tested)				↓	↓	↓
9	Fe <sup>+2</sup> (Field test)	0.02 mg/l			AL160	1020	KKS
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?  YES NO

Duplicate Sample Name: AL160

MRD Sample Name: AL139

QA/QC rinsate sample name: AL161

MATRIX SPIKE sample collected?  YES NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/29/98			
VOLUME:	3 gal			
DRUM #, LOCATION:	ASH-5W			

COMMENTS:

# SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-30
PROJECT: <u>1st Quarterly Monitoring - 1998</u>		DATE: <u>3/27/98</u>
SWMU # (AREA): <u>Ash Landfill</u>		INSPECTORS: <u>KKS</u>
SOP NO.: <u>17</u>		PUMP #: <u>N/A</u>

WEATHER / FIELD CONDITIONS CHECKLIST <small>(RECORD MAJOR CHANGES)</small>							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME =		
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10	WELL DIAMETER FACTOR * WATER COLUMN
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN		WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND	
		10.52		5.0'						

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME	
		2		3.90'		1.0		7.0'		1300

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)		

## MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/27/98	1315	0.5	3.75	4.06	494	6.82	294	4.00	7.0

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-30

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL140	3/27/98 1320	KKJ
1A	- NYSCLP	HCL	3/ 40 ml	VOA	↓	↓	↓
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA			
<del>3</del>	<del>METALS</del>	<del>HNO3</del>	<del>1/ 1 L</del>	<del>HDPE</del>			
<del>4</del>	<del>CN</del>	<del>NAOH</del>	<del>1/ 1 L</del>	<del>HDPE</del>			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)	0.06 mg/l					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/27/98			
VOLUME:	3.75			
DRUM #, LOCATION:	On Ground			

COMMENTS:

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-36
PROJECT: 1st Quarterly Monitoring - 1998	DATE: 3/26/98	
SWMU # (AREA): Ash Landfill	INSPECTORS: KKS	
SOP NO.: 17	PUMP #: N/A	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

DIAMETER (INCHES):	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	2	3	4	5	6	7	8	9		10
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
		16.58	6.20		
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
	Q	2.32'	2.3	11.0	1625
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/26/98	1650	480	2.5	6.52	672	6.84	311	0.54	1.47

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.			CLIENT: USACOE		WELL #:	MW -36	
SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL141	3/26/98 1650	KCS
<del>1A</del>	<del>VOCs</del>	HCL	3/ 40 ml	VOA	↓	↓	↓
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA			
<del>3</del>	<del>METALS</del>	HNO3	1/ 1 L	HDPE			
<del>4</del>	<del>CN</del>	NAOH	1/ 1 L	HDPE			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK/SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)	0.02 mg/l					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?  YES NO

Duplicate Sample Name: AL158

MRD Sample Name: AL141 (524.2 VOC Only) AL159 (Rinsate)

QA/QC rinsate sample name: AL159

MATRIX SPIKE sample collected?  YES NO VOC Only (524.2)

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/26/98			
VOLUME:	2.5 gal			
DRUM # LOCATION:	On Ground			

**COMMENTS:**

## SAMPLING RECORD - GROUNDWATER

<b>PARSONS ENGINEERING - SCIENCE, INC.</b>	CLIENT: <b>USACOE</b>	WELL #: <b>MW-40</b>
PROJECT: <b>1st Quarterly Monitoring - 1998</b>	DATE: <u>3/24/98</u>	
SWMU # (AREA): <b>Ash Landfill</b>	INSPECTORS: <u>KKS</u>	
SOP NO.: <b>17</b>	PUMP #: <u>N/A</u>	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)						MONITORING		
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	14.71	7.3			
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE	PUMPING START TIME
	Q	3.57'	1.8	11.0'	1504

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/24/98	1534	140	1.0	4.98	583	6.89	288	2.46	0.70

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-40

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL142	3/24/98 1540	KKS
<del>1A</del>	<del>VOA-524.2</del>	<del>HCL</del>	<del>3/ 40 ml</del>	<del>VOA</del>			
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA			
<del>3</del>	<del>METALS</del>	<del>HNO3</del>	<del>1/ 1 L</del>	<del>HDPE</del>			
<del>4</del>	<del>CN</del>	<del>NAOH</del>	<del>1/ 1 L</del>	<del>HDPE</del>			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK/SULF/CHLOR	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)				↓	↓	↓

0.02 mg/l

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/24/98			
VOLUME:	1.0			
DRUM #, LOCATION:	On ground			

COMMENTS:



### SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-43
PROJECT: 1st Quarterly Monitoring - 1998	DATE: 3/27/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

<b>WELL DIAMETER FACTORS</b> DIAMETER (INCHES): 1 1.5 2 3 4 5 6 7 8 9 10 GALLONS / FOOT: 0.041 0.092 0.163 0.367 0.654 1.02 1.47 2.00 2.61 3.30 5.87	<b>STANDING WATER VOLUME =</b> WELL DIAMETER FACTOR • WATER COLUMN
--	---

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	7.47'	5.5'			

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
	Q	2.60'	0.8	6.5	15:10

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)
--------------------------	------------------------------	---------------------------

#### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/27/98	1525	0.5	1.9	4.21	473	6.80	295	0.37	2.15

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-43

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
<del>1</del> VOA-524.2		HCL	<del>3/ 40 ml</del>	<del>VOA</del>	<del>AL1440-5</del>		
<del>1A</del> - NYSCLP		HCL	<del>3/ 40 ml</del>	<del>VOA</del>			
<del>2</del> Methane/ Ethane/ Ethene		HCL	<del>3/ 40ml</del>	<del>VOA</del>			
3 METALS		HNO3	1/ 1 L	HDPE	AL144	1530	KKS
4 CN		NAOH	1/ 1 L	HDPE	↓	↓	↓
<del>5</del> DOC (filtered)		H2SO4	<del>2/ 40ml</del>	<del>VOA</del>			
<del>6</del> ALK./SULF./CHLOR.		NONE	<del>1/ 1 L</del>	<del>HDPE</del>			
<del>7</del> NITRATE/ NITRITE		H2SO4	<del>1/ 1 L</del>	<del>HDPE</del>			
<del>8</del> FE+2 (field tested)							
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/27/98			
VOLUME:	2 gal			
DRUM #, LOCATION:	On Ground			

COMMENTS:

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-44A
PROJECT: <b>1st Quarterly Monitoring - 1998</b>	DATE: <u>3/29/98</u>	
SWMU # (AREA) <u>Ash Landfill</u>	INSPECTORS: <u>KKS</u>	
SOP NO.: <u>17</u>	PUMP #: <u>N/A</u>	

WEATHER / FIELD CONDITIONS CHECKLIST						(RECORD MAJOR CHANGES)	MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
3/29/98	1130	70°F	Sunny			Muddy	OVM-580	PPM (Isobut.)

DIAMETER (INCHES):	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	GALLONS / FOOT:	1	1.5	2	3	4	5	6	7	8		9
		0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN		WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND	
		12.48'		8.2'				
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
		2		3.60		1.45		10.0
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)			PUMP AFTER SAMPLING (cps)				

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/29/98	1153	0.09	1.45	9.05	2200	6.55	400	1.90	3.99

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW -44A

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/40 ml	VOA	AL145	3/29/98 1155	KCS
1A	-NYSCLP	HCL	3/40 ml	VOA	↓	↓	↓
2	Methane/ Ethane/Ethene	HCL	3/40ml	VOA			
3	METALS	HNO3	1/1 L	HDPE			
4	CN	NAOH	1/1 L	HDPE			
5	DOC (filtered)	H2SO4	2/40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/1L	HDPE			
8	FE+2 (field tested)	0.02 mg/l					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

INVESTIGATION DERIVED WASTE (IDW): 3/29/98

DATE:	4/20/98 KCS		
VOLUME:	1.5 gal		
DRUM #, LOCATION:	ASH - 5W		

COMMENTS:

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.		CLIENT: USACOE	WELL #: MW-45
PROJECT: 1st Quarterly Monitoring - 1998			DATE: 3/28/98
SWMU # (AREA): Ash Landfill			INSPECTORS: KKS
SOP NO.: 17			PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut)

WELL DIAMETER FACTORS											STANDING WATER VOLUME = WELL DIAMETER FACTOR • WATER COLUMN	
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10	
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	8.34'	4.0'			

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TO S + 2 ft)	PUMPING START TIME
	Q	2.59'	1.0	6.5'	1416

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS									
DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/28/98	1740	0.24	1.3	6.51	516	6.69	423	2.09	0.99

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-45

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL146	3/28/98 1445	rkj
<del>1A</del>	<del>NYSCIP</del>	<del>HCL</del>	<del>3/ 40 ml</del>	<del>VOA</del>	↓	↓	↓
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA			
3	METALS	HNO3	1/ 1 L	HDPE			
4	CN	NAOH	1/ 1 L	HDPE			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)	0.04 mg/l			↓	↓	↓
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/28/98			
VOLUME:	1.3 gal			
DRUM#, LOCATION:	On Ground			

COMMENTS:

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-46
PROJECT: 1st Quarterly Monitoring - 1998		DATE: 3/28/98
SWMU # (AREA): Ash Landfill		INSPECTORS: KKS
SOP NO.: 17		PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

<b>WELL DIAMETER FACTORS</b>	<b>STANDING WATER VOLUME =</b> WELL DIAMETER FACTOR * WATER COLUMN
DIAMETER (INCHES):      1    1.5   2    3    4    5    6    7    8    9    10 GALLONS / FOOT:         0.041 0.092 0.163 0.367 0.654 1.02 1.47 2.00 2.61 3.30 5.87	

<b>HISTORIC DATA</b>	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	11.45'	6.2'			

<b>DATA COLLECTED AT WELL SITE</b>	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE <del>(DEPTH TO SCREEN)</del>	PUMPING START TIME
	1.0	3.4'	1.3	10.0	1235

<b>RADIATION SCREENING DATA</b>	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/28/98	1302	0.32	2.0	7.00	748	6.66	196	0.22	3.80

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-46

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
<del>1</del> VOA-524.2		HCL	3/40 ml	VOA		3/28/98	
1A - NYSCLP		HCL	3/40 ml	VOA	AL147	1305	KKS
2 Methane/ Ethane/Ethene		HCL	3/40ml	VOA	↓	↓	↓
3 METALS		HNO3	1/1 L	HDPE			
4 CN		NAOH	1/1 L	HDPE			
5 DOC (filtered)		H2SO4	2/40ml	VOA			
6 ALK./SULF./CHLOR.		NONE	1/1 L	HDPE			
7 NITRATE/ NITRITE		H2SO4	1/1L	HDPE			
8 FE+2 (field tested)		0.05 mg/l					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/28/98			
VOLUME:	2.0			
DRUM #, LOCATION:	ASH-5W			

COMMENTS:



### SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-47
PROJECT: 1st Quarterly Monitoring - 1998		DATE: 3/25/98
SWMU # (AREA): Ash Landfill		INSPECTORS: KKS
SOP NO.: 17		PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		

HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN		WELL DEV TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND	
	8.56'		6.5'							
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TO SCREEN)		PUMPING START TIME	
	Q		2.80		1.0		7.0		1305	
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)				PUMP AFTER SAMPLING (cps)					

#### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/25/98	1325	0.125	2.2	4.80	526	6.75	318	1.79	7.99

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-47

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL148	3/25/98 1330	KCS
<del>1A</del>	<del>VOA-524.2</del>	<del>HCL</del>	<del>3/ 40 ml</del>	<del>VOA</del>			
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA			
3	METALS	HNO3	1/ 1 L	HDPE			
4	CN	NAOH	1/ 1 L	HDPE			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)	0.04 mg/l					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/25/98			
VOLUME:	2.2 gal			
DRUM #, LOCATION:	On Ground			

COMMENTS:

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.		CLIENT: USACOE		WELL #: MW-48	
PROJECT: 1st Quarterly Monitoring - 1998			DATE: 3/28/98		INSPECTORS: KKS
SWMU # (AREA): Ash Landfill		SOP NO.: 17		PUMP #: N/A	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)						MONITORING		
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

DIAMETER (INCHES):	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	2	3	4	5	6	7	8	9		10
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	
HISTORIC DATA		DEPTH POW (TOC)		DEPTH TOP OF SCREEN			WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND	
		11.5'		6.2'								
DATA COLLECTED AT WELL SITE		PID READING (OPENING WELL)		STATIC WATER LEVEL			CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE <del>(DEPTH TO SCREEN)</del>		PUMPING START TIME	
		R		2.96'			1.4		8-0'		1320	
RADIATION SCREENING DATA		PUMP PRIOR TO SAMPLING (cps)						PUMP AFTER SAMPLING (cps)				

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	EH	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/28/98	1349	0.66	3.00	525	389	6.93	288	0.71	4.0

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-48

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL149	3/28/98 1350	ICCS
<del>1A</del>	<del>MSCL</del>	<del>HCL</del>	<del>3/ 40 ml</del>	<del>VOA</del>	↓	↓	↓
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	↓	↓	↓
3	METALS	HNO3	1/ 1 L	HDPE	↓	↓	↓
4	CN	NAOH	1/ 1 L	HDPE	↓	↓	↓
5	DOC (filtered)	H2SO4	2/ 40ml	VOA	↓	↓	↓
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE	↓	↓	↓
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE	↓	↓	↓
8	FE+2 (field tested)	0.02 mg/l			↓	↓	↓
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/28/98		
VOLUME:	3 gal		
<del>DRUM</del> #, LOCATION:	On Ground		

COMMENTS:



## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

MW-52D

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1 <del>VOA-524.2</del>		HCL	3/ 40 ml	VOA		3/27/98	
1A <del>NITCL</del>		HCL	3/ 40 ml	VOA			
2 <del>Methane/Ethane/Ethene</del>		HCL	3/ 40ml	VOA			
3 METALS		HNO3	1/ 1 L	HDPE	AL157	1000	KES
4 CN		NAOH	1/ 1 L	HDPE	↓	↓	KES
5 <del>DOC (filtered)</del>		H2SO4	2/ 40ml	VOA			
6 <del>ALK/SULF/CHLOR</del>		NONE	1/ 1 L	HDPE			
7 <del>NITRATE/NITRITE</del>		H2SO4	1/ 1L	HDPE			
8 <del>FE+2 (field tested)</del>							
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?

YES

NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?

YES

NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/25	3/26	3/27	
VOLUME:	6 gal	7.6 gal	5.0	
DRUM # LOCATION:	0 <sub>2</sub> Ground	0 <sub>2</sub> Ground	0 <sub>2</sub> Ground	

COMMENTS:

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.      CLIENT:      USACOE      WELL #:      MW-53

PROJECT:      1st Quarterly Monitoring - 1998      DATE:      3/27/98  
 SWMU # (AREA):      Ash Landfill      INSPECTORS:      KKS  
 SOP NO.:      17      PUMP #:      N/A

**WEATHER / FIELD CONDITIONS CHECKLIST** (RECORD MAJOR CHANGES)      **MONITORING**

DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

DIAMETER (INCHES):	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	2	3	4	5	6	7	8	9		10
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV TURBIDITY	WELL DEV pH	WELL DEV SPEC. COND
	10.35	6.5			

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
	1.0	5.1	0.85	8.0	1355

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/27/98	1436	0.6	5.1	6.06	679	6.56	334	6.37	5.0

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

MW - 53

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME 3/27/98	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
<del>1</del>	<del>VOA 524.2</del>	<del>HCL</del>	<del>3/40 ml</del>	<del>VOA</del>	<del>AL150</del>	<del>1440</del>	<del>KKS</del>
<del>1A</del>	<del>-NTSCLP</del>	<del>HCL</del>	<del>3/40 ml</del>	<del>VOA</del>			
<del>2</del>	<del>Methane/Ethane/Ethene</del>	<del>HCL</del>	<del>3/40 ml</del>	<del>VOA</del>			
3	METALS	HNO3	1/1 L	HDPE	AL150	1440	KKS
4	CN	NAOH	1/1 L	HDPE	↓	↓	↓
<del>5</del>	<del>DOC (filtered)</del>	<del>H2SO4</del>	<del>2/40 ml</del>	<del>VOA</del>			
<del>6</del>	<del>ALK/SULF./CHLOR.</del>	<del>NONE</del>	<del>1/1 L</del>	<del>HDPE</del>			
<del>7</del>	<del>NITRATE/NITRITE</del>	<del>H2SO4</del>	<del>1/1 L</del>	<del>HDPE</del>			
8	FE+2 (field tested)						
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/27/98			
VOLUME:	5 gal.			
DRUM #, LOCATION:	ASH-5W			

COMMENTS:





## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

MW-56

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL151	3/26/98 1350	KIES
<del>1A</del>	<del>VOA-524.2</del>	HCL	3/ 40 ml	VOA			
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA			
3	METALS	HNO3	1/ 1 L	HDPE			
4	CN	NAOH	1/ 1 L	HDPE			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)	0.13 mg/l	average of two samples (0.10 mg/l) ↓ (0.15 mg/l) ↓			↓	↓
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/29/98			
VOLUME:	1.7 gal			
DRUM# LOCATION:	On Ground			

COMMENTS:



## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.			CLIENT: USACOE		WELL #: MW-57D		
SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	<del>VOA-524.2</del>	HCL	3/ 40 ml	VOA		3/26/98	
1A	<del>VOA-524.2</del>	HCL	3/ 40 ml	VOA			
2	<del>Methane/ Ethane/ Ethene</del>	HCL	3/ 40ml	VOA			
3	METALS	HNO3	1/ 1 L	HDPE	AL143	1245	KS
4	CN	NAOH	1/ 1 L	HDPE	↓	↓	KS
5	<del>DOC (filtered)</del>	H2SO4	2/ 40ml	VOA			
6	<del>ALK/SULF./CHLOR.</del>	NONE	1/ 1 L	HDPE			
7	<del>NITRATE/NITRITE</del>	H2SO4	1/ 1L	HDPE			
8	<del>FE+2 (field tested)</del>						
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?    YES     NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?    YES     NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/26/98			
VOLUME:	2.5 gal			
DRUM #, LOCATION:	On Ground			

COMMENTS:



## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

MW-58D

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
<del>1</del> <del>VOA-524.2</del>		HCL	3/ 40 ml	VOA		3/26/98	
<del>1A</del> <del>NTSCL</del>		HCL	3/ 40 ml	VOA			
<del>2</del> <del>Methane/Ethane/Ethene</del>		HCL	3/ 40ml	VOA			
3 METALS		HNO3	1/ 1 L	HDPE	AL152	1535	KCS
4 CN		NAOH	1/ 1 L	HDPE	↓	↓	↓
<del>5</del> <del>DOC (filtered)</del>		H2SO4	2/ 40ml	VOA			
<del>6</del> <del>ALK/SULF/CHLOR</del>		NONE	1/ 1 L	HDPE			
<del>7</del> <del>NITRATE/NITRITE</del>		H2SO4	1/ 1L	HDPE			
<del>8</del> <del>FE+2 (field tested)</del>							
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/ 26/98			
VOLUME:	10.7			
DRUM#, LOCATION:	04 Ground			

COMMENTS:



## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.      CLIENT: USACOE      WELL #: MW-59

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO. 3/24/98	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	A-153	1135	KKG
<del>1A</del>	<del>NYSCLP</del>	HCL	<del>3/ 40 ml</del>	<del>VOA</del>			
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA			
<del>3</del>	<del>METALS</del>	<del>HNO3</del>	<del>1/ 1 L</del>	<del>HDPE</del>			
<del>4</del>	<del>CN</del>	<del>NAOH</del>	<del>1/ 1 L</del>	<del>HDPE</del>			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)	0.03 mg / l			↓	↓	↓
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?      YES       NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?      YES       NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/24/98			
VOLUME:	2.5			
DRUM #, LOCATION:	On Ground			

COMMENTS:



# SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-60
PROJECT: 1st Quarterly Monitoring - 1998	DATE: 3/24/98	
SWMU # (AREA): Ash Landfill	INSPECTORS: KKS	
SOP NO.: 17	PUMP #: N/A	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
3/24/98	1330	35°	Partly Sun			Muddy	OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		

HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN		WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND	
		9.5		5.2						
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE		PUMPING START TIME	
	☒		1.8'		1.25		7.2		1335	
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)				PUMP AFTER SAMPLING (cps)					

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
3/24/98	1405	0.32 L/min	2.6	4.37	519	6.25	285	0.12	0.49

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.			CLIENT:	USACOE	WELL #:	MW-60	
SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO. 3/24/98	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/40 ml	VOA	AL154	1415	KKS
<del>1A</del>	<del>NYSCLD</del>	<del>HCL</del>	<del>3/40 ml</del>	<del>VOA</del>	↓	↓	↓
2	Methane/ Ethane/Ethene	HCL	3/40ml	VOA			
<del>3</del>	<del>METALS</del>	<del>HNO3</del>	<del>1/1 L</del>	<del>HDPE</del>			
<del>4</del>	<del>CN</del>	<del>NAOH</del>	<del>1/1 L</del>	<del>HDPE</del>			
5	DOC (filtered)	H2SO4	2/40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/1L	HDPE			
8	FE+2 (field tested)	0.01 mg/l					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	3/2			
VOLUME:	2.6			
DRUM #, LOCATION:	On Ground			

**COMMENTS:**

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.			CLIENT: USACOE	WELL #: MW FH-5
PROJECT: 1st Quarterly Monitoring - 1998		DATE: 3/18/98		
SWMU # (AREA): Ash Landfill		INSPECTORS: KKS		
SOP NO.: 17		PUMP #: N/A		

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10	
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOC + 2 ft)	PUMPING START TIME
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)

Well purged for 10 min. at the pump / holding tank located in the farm house cellar. Sample was collected from the spigot located on the holding tank.

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

MW FH-5

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/ 40 ml	VOA	AL130	3/18/98 1345 KKS
1A	-NYSCLP		HCL	3/ 40 ml	VOA		
2	Methane/ Ethane/Ethene		HCL	3/ 40ml	VOA		
3	METALS		HNO3	1/ 1 L	HDPE		
4	CN		NAOH	1/ 1 L	HDPE		
5	DOC (filtered)		H2SO4	2/ 40ml	VOA		
6	ALK./SULF./CHLOR.		NONE	1/ 1 L	HDPE		
7	NITRATE/ NITRITE		H2SO4	1/ 1L	HDPE		
8	FE+2 (field tested)						
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?

YES

NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?

YES

NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:				
VOLUME:				
DRUM #, LOCATION:				

COMMENTS:

Purge water on ground

# SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW FH-D
PROJECT: 1st Quarterly Monitoring - 1998	DATE: 3/18/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST				(RECORD MAJOR CHANGES)			MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut.)

DIAMETER (INCHES): GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	2	3	4	5	6	7	8	9		10
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS									
DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)

Well is used for household purposes ie tap water.

Well was purged for 10 min. at the kitchen sink and the sample was collected from the kitchen faucet.

Rotten egg odor and effervescent.

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.      CLIENT: USACOE      WELL #: MW FH-D

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL131	3/18/98	1335
1A	- NYSCLP	HCL	3/ 40 ml	VOA			
2	Methane/ Ethane/ Ethene	HCL	3/ 40ml	VOA			
3	METALS	HNO3	1/ 1 L	HDPE			
4	CN	NAOH	1/ 1 L	HDPE			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)						
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?      YES       NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?      YES       NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:			
VOLUME:			
DRUM #, LOCATION:			

COMMENTS: *Purge water down kitchen sink*

### SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW BN-5
PROJECT: 1st Quarterly Monitoring - 1998	DATE: 3/18/98	
SWMU # (AREA): Ash Landfill	INSPECTORS: KKS	
SOP NO.: 17	PUMP #: N/A	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
							OVM-580	PPM (Isobut)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8		9
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

#### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
<p>Well is located near barn at the farm house location.</p> <p>It is hand dug approx 3' wide and 10' deep.</p> <p>No purge or parameters taken.</p> <p>Sampled with a decontaminated teflon bailer.</p>									

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.			CLIENT: USACOE		WELL #: MW BN-S		
SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL132	3/18/98 1355	KKS
1A	- NYSCLP	HCL	3/ 40 ml	VOA			
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA			
3	METALS	HNO3	1/ 1 L	HDPE			
4	CN	NAOH	1/ 1 L	HDPE			
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE			
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)						
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?      YES       NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?      YES       NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:				
VOLUME:				
DRUM #, LOCATION:				

COMMENTS:      No waste



Book 1 of 1

"Rite in the Rain"®



ALL-WEATHER

**LEVEL**

Notebook No. 311

Seneca Army Depot

Quarterly Monitoring Program

March 1998

730769-01005



**MINERS**

INCORPORATED

RIGGINS,

IDAHO

83549

IDW  
DRUM INVENTORY KLS

<u>DRUM NUMBER</u>	<u>LOCATION</u>	<u>ORIGIN OF CONTENTS</u>	<u>AMOUNT</u>	<u>START DATE</u> (KLS)
ASH-SW	ASH	PT 21A	3 gal	3/28/98
		MW 46	2 gal	3/28/98
		PT 12A	<del>1.8</del> <sup>1.5</sup> gal	3/28/98
		PT 24	2 gal	3/28/98
		PT-29	3 gal	3/28/98
		PT-19	5 gal	3/27/98
		MW-53	5 gal	3/27/98

3/18/98

- 1300 Meet Dan Gannity of the New York Dept of Health to split samples at the farm house wells
- 1335 Loc ID FH-D - Sample ID # AL131  
Sampled from kitchen tap  
no parameters taken
- 1345 Loc ID FH-S Sample ID # AL130  
Sampled from tap on pump/holding tank. Allowed to purge for 15 min
- 1355 Loc ID # BN-S Sample ID # AL132  
Sampled with 2" x 3' teflon bailer  
No parameter or purge done - hand dug well.  
Analysis for all three wells:  
VOC 524.2 - preserved w/ HCL  
Shipped 3/19/98 - Start SDG 1

3/23/18 Wednes - Sun/eleads, internet slow, 25-35°  
 0600 Syracuse - Ian Reed's flight delayed to

0905.

0815 Pickup Ian.

1030 Arrive @ Depot

Straggle out ID problem with lab

Mike Wellerson on site - his activities,

Fee-Toring - Lab's bottles, re-sample

pick and ship one re-located location,

go to Geneva and copy all ERS documents

before shipping them to the office.

IR + KKS have lunch and do Ash Leadfall

water levels.

1540 Return to trailer with H<sub>2</sub>O Instrument

from Bldg 323, Ian preps sample

supplies, KKS checks H<sub>2</sub>O, which was

shipped last week on Friday.

Turbidity sensor not right. we'll

use our instrument.

3/23/18 Water Levels

WATER ID # (192)

Well #	Time	Depth H <sub>2</sub> O	Comments
PT26	1244	3.04'	OK, very low
MW56	1254	3.13'	POC here, C.S. - no sample
TCR above Ground level = 2.88'			Cannot lock Potable Casings
MW57D	1258	1.69'	Pod is Frequent
MW58D	1302	1.35'	No Pod - water size (S.S.)
MW34	1354	2.74'	OK
MW37	1358	2.51'	OK
MW32	1402	3.84'	No Tubing. No Pump
MW33	1405	3.71'	OK No Pump
PT15	1408	4.02'	OK - No Pump
PT25	1411	3.58'	OK
MW31	1414	2.48'	OK
MW30	1416	3.93'	OK
MW29	1420	0.10'	OK
MW55D	1422	5.56'	OK
MW54D	1423	5.12'	OK
MW53	1425	5.78'	OK
PT17	1428	4.24'	OK
PT22	1433	4.31'	OK
PT21A	1435	3.84'	Pod Head O.S./tube short No Lock
PT20	1438	4.94'	Drain hole too large - Mouse nest inside/lock OK

6 3/23/98

Well #	Time	Water	Comments
PT 19	1444	2.17	Riser Broken + detailed
PT 12A	1450	3.14	W. Leak
PT-18	1452	4.40	OK
MW 40	1454	3.45	Gas Heard 0.3'
PT-11	1458	4.24	No Leak
MW 54	1500	2.15	OK
MW 60	1501	1.95	OK
MW 2D	1507	2.33	OK

Prilled up HydroLab at 323.  
 Shipped without calibration or QC  
 1700

.163

3/24/98 Weather - sunny 20's

0710 On Site

Parameter	Standard Reading	Sat to Reading	Reading	Calibrate	Serial
Ca <sup>++</sup> /l	Sat. Air	3.20	8.68	8.68	51N 24544
PH 7	PH 7	2.07	2.00	2.00	51N 25976
PH	PH 4	4.05	4.00		
Cond	WS 1000	1097	1000	1099	1099
Turbidity	NTU 100	107	-		
Redox (mv)	13	12.4	-		
PH 7	287	269	287	287	
PH 4	463	463	-		
0526	PT 11	WL = 4.20			

Well Spgs = POW = 19.52  
 TOS = N/A 1 Vol = 2.5 gal  
 Long Slow Well - Intake @ 17.5  
 Long Slow Pumping PT-11  
 0545 ... 360 ... WL = 10.1

7

3/24/08 PT-11

Time	Rate	WL	Vol	Temp	Cond
1000	270	12.54	1.5	5.72	1001
1006	100	13.82	1.8	5.80	1004
1012	100	14.06	2.0	5.80	1003
1017	100	14.19	2.2	5.73	1004
1022	100	14.64	2.3	5.75	1001
1028	100	14.8	2.5	5.96	999
1033	100	15.5	2.7	6.04	993
1038	100	15.80	2.80	6.09	981

Next Draw Down - will return high  
all Parameters stable except

1052 MW-59 Static = 2.14'

Well specs = Flow = 9.10 TDS = 4.8

1105 Start Pump MW-59 Rate = 400

1113	400	3.15	0.75	4.71	1183
1118	400	3.28	1.3	4.59	1191
1124	400	3.00	1.75	4.61	1196
1130	400	3.20	2.3	4.73	1203
1133	400	3.15	2.5	4.69	2000

1135 Sample MW-59 ID# 4153

NO<sub>3</sub>-N 524.2 Nitrate/Nitrite  
M/E/E DOC = Filtered  
AN/C/SiF/Cl/lor Fe = 0.03 mg/L

3/24/08

DO	pH	Relax	Temp
4.65	6.77	287	55.7
4.03	6.77	291	
4.47	6.77	292	63
4.35	6.80	295	67
4.40	6.81	297	65
4.48	6.82	298	62.3
4.45	6.84	299	60.5
4.37	6.85	301	59.5

homogenous turbidity (> 50) check for lower turbidity

Pump Intake = 6.8 Volume = 1.2 gal  
3'

1.1	6.47	302	30.5
0.68	6.47	302	3.0
0.58	6.49	301	2.9
0.49	6.47	299	2.5
0.52	6.47	299	2.0

3-24-98

MW-60

Time	Rate	WL	Vol	Temp	Cond	DO	pH	Redox	Turb.
13:25									
MW 60			Stake WL = 1.8	intake = 7.2'					
			POW = 9.5	TDS = 5.2					
13:35	Start Pump								
13:46	360	2.45	0.6	4.71	544	0.28	6.75	288	0.76
13:54	320	2.65	1.5	4.45	527	0.17	6.74	286	1.13
14:06	320	2.65	2.0	4.44	523	0.15	6.76	285	0.70
14:05	320	2.80	2.6	4.37	519	0.12	6.75	285	0.49
14:15	Sample MW 60			ID # AL154					
	VOC SA4.2			Alk, Sulf, Chlor					
	N/E/E			Nitrate/Nitrite					
	DOC - Filtered			Fe = 0.01 mg/l					
14:50	Setup @ MW 40			Static 3.66					
15:04	Start Pump @ 200 ml/min								
15:14	200	4.34	4.25	5.12	560	2.73	6.90	284	1.56
15:22	200	5.06	4.3	5.25	581	2.54	6.89	286	0.77
15:26	240	5.42	0.75	5.13	582	2.55	6.89	287	0.75
15:34	140	5.76	1.0	4.98	583	2.46	6.89	288	0.70
15:40	Sample MW-40			AL # 142					
	VOC SA4.2			Alk/Sulf/Chlor					
	N/E/E			Nitrate/Nitrite					
	DOC Filtered			Fe = 0.02					

Volume = 1.25 gal

POW = 14.71 TDS = 7.3' Volume = 1.8

Intake = 11.0

3/25/08

0710 On Site Fax to Alan Cost Recovery

H2O Calibration

Parameter Std Reading Setto Reading

DO (M) 8.57 8.71 8.57 8.56

pH pH 7 6.97 7.00 7.00

pH 4 4.00

Cond (uS) 1000 1116 Cannot set over

Display unit "Out of range" if Cal setting is less than 1115. Using Fresh Std @ 23°C

100	106.8	-	-
255/285	273	285	285
258/462	469	-	-
OKP Std 100mV	370 mV	-	-

pH 7 worth  
 Quinhydrone  
 pH 4 worth  
 Quinhydrone  
 Zobel Solution?

0505 AT PT 11 - Purge well to remove stagnant water in tubing

Static = 5.42

0715 Sample PT 11 ID # AL155  
 VOC - 524.2  
 M/E/E  
 Nitrile/Nitrile

1000 Doc. Filled Fe = 0.01 mg/l  
 Setup @ PT 26 Metal Only  
 Static = 3.02' PDV = 14.00 TOS = 9.0

1012 Start Sampling Tanker @ 11.5' OUN = 8

3/25/08

PT 26

Time	Rate	Vol	WT	Temp	Co-ld DO	pH	flexbox	Turb
1022	400 → 280	75	3.65					224
1030	280 → 200	1.4	3.55					158.99
1038	180	2.0	3.5					74.8
1048	200	2.25	3.45					58.4
1058	200	2.6	3.45					43.0
1150	200 → 250	5.5	3.58					35.00
1202	120	5.7	3.40					27.2
1207	120	5.75	3.38					15.9
1212	120	5.80	3.35					15.5
1217	120	6.0	3.35					14.0
Sample								
PT-26 AL # 137								
1220								

Try decreasing rate to 100  
 Turbidity at 15 L/min Metals = 11.5 N-U  
 TAL Metals + CN Only

3/25/98 PT 26 Cont'd

Although silt was removed from the pump prior to setting bladder Pump - Water was turbid - although slowly clearing

1100 Leave PT26 pumping to clear turbidity. Set remaining two pumps in field.

1118 MW52D Static = 2.34' PAV = 59.36'  
TOS = 39.6 Intake @ 49.0'

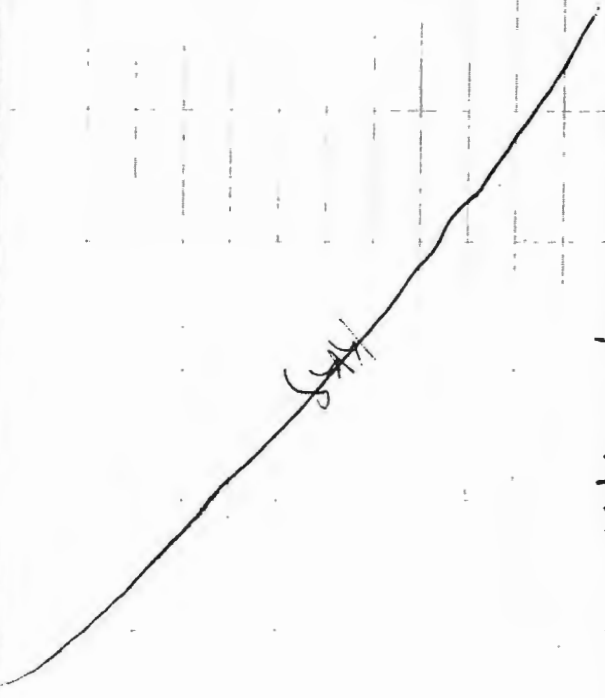
Static = 2.80' PAV = 58.56'

TOS = 6.5' Intake @ 7.0'

1150 Return to PT 26 - I.R. getting back

1250 Setup for sampling MW47

1305 Start Pump MW47



3/25/98

MW - MW47

Time	Rate	WL	Vol	Temp	Cond	DO	pH	Redox	Trb
1305	480-400	3.2	1.0	4.45	521	1.97	6.75	357	20.6
1310	480-240	3.05	1.5	4.64	525	1.87	6.75	342	12.2
1315	240-195	3.00	1.75	4.81	526	1.82	6.75	327	14.5
1320	125	3.02	2.00	4.84	527	1.79	6.75	319	8.02
1325	125	3.00	2.2	4.80	526	1.79	6.75	318	7.95
1330	Sample	MV - 47	47	AL #	148				

1/2 Full Reading  
6.34 NTU  
M/E/E  
M/E/E  
VOC 524.2  
Alk/Sulf/Chlor  
Nitrate/Nitrite  
Fe = +0.04  
DOC - Filtered  
CN



3/25/98

1355 Start Pump @ MW-52D S<sub>1</sub> T<sub>1</sub> = 2.34

POV = 59.36 TOS = 39.6 Intake 45

Vol = 9.3 gal O<sub>2</sub> = 8

Time	Rate	Vol	WL	Temp	Cond
1415	200-100	1.20	8.0	8.72	501
1420	100-120	1.25	8.55	7.55	502
1453	~100	2.0	9.5	6.72	493

1515 Battery was dying upon return from setting it is unknown why turbidity increased.

We plan on drawing down the well

1520 Water is clearing as well is drawn down.

1525 200 4.25 20.6 8.63 497

1530 ~200 4.30 20.5 7.88 495

1603 200 → 100 5.0 26.0 8.10 487

16 Well recovering - rate turned down per M. Dukessness

1608 ~100 5.1 25.5 7.81 457

1613 ~100 5.15 25.0 7.46 453

Turbidity increasing as well

creasing up rate, Temp increasing

1618 700 ml/min

1622 700 6 gal 28.3 9.67 478

1635 700 7 gal 36.5 will pump down to

1645 7.8 gal removed pump test in

( Had to draw down well to 8' TOC to maintain a 100ml/min recovery rate )

DO	pH	Relat	Turb
4.44	7.99	275	81.1
4.84	8.00	274	
3.46	8.08	273	35.5

16 wells @ MW52D + 58D rate was ~100ml/min We looked up another battery to the compressor to 30 ft and determine recovery rate.

WL = 15'

5.12	8.12	272	31.9
4.34	8.12	273	28.8
3.90	8.23	269	65.0
3.80	8.25	269	77.0
4.49	8.24	269	75.0

recovers ~ Battery may not last due to less time to air cool - tubing is over 10 outside well.

150

2.14 8.35 262 205

36.5 - parameter + sample 107

turnover - battery dying well - well secured/locked 90.5

3/25/98

1436 MW58D Static = 1.36'

POR = 57.29 TOS = 37.5

Intake @ 43'

TOS-16 Intake = 26

1438 MW57D Static 1.68' - Por 35.03

1600 Called Mike D - ok to sample

< 50. NTU - Need to recover

one well volume

1710 Complete installing pump in MW57D

Tomorrow we will determine if

MW58D will cover @ 100-200 ml/min.

We'll close it down to estimate top

of sand pack and allow to recover.

Then we will return to MW52D -

take parameters + sample - flows

at 100 to 200 ml/min.

1730 Return to truck - Start chain of custody

+ store samples + instruments.

1800 Leave Site

KCS

3/26/98

0705 Or Site

Mike W. to pack two days supply

0725 Calibrate H<sub>2</sub>O

Parameter Std Ready Set to Ready

DO @ 20°C / 9.17 9.18

pH pH 7 7.00 7.00 7.00

pH 4 4.04 4.00 4.00

Cond (uS) 1000 1104 - low cell setting

Redox (mV) 208 / 291 283 291 283

2200 / 466 471 -

Turbidity Hecl 2100P

NTU's 430 435 - -

4.95 5.20 - -

48.5 50.0

0830 Return to MW52D

Static = 2.75

0835 Start Pump - 200 ml/min

3/26/68

MW 5:20 Weather - 50°F Cloudy Showers Yesterday's Volume Remained = 7 gal

Time	Rate <sup>100</sup> ml	wt	Vol	Temp	Cond	DO	pH	Redox	Turb
0847	200	6.7	0.6	8.24	518	1.41	8.30	216	227
0852	100	7.3	0.75	7.78	521	1.40	8.30	213	228 / 208 prior to cell
0858	100	7.78	0.85	7.58	511	1.35	8.31	210	196
0910	100	8.6	1.00	8.22	496	1.50	8.37	205	200
0916	100	8.9	1.20	8.35	450	1.49	8.38	204	219
0922	100	9.25	1.35	8.57	487	1.45	8.40	204	240
0932	100	9.60	1.50	8.67	488	1.39	8.41	204	235
0940	90		1.0	8.52	489	1.36	8.38	201	232
0950	90			9.57	489	1.33	8.41	201	243
1006	80	11.20	2.0	9.66	488	1.30	8.42	206	250

Called Office - PFM: He thinks Turbidity should be lower - send probe is probably silted up

if low flow pumping can't clear water - pump will draw again + return

1005 Turn up rate to 700 ml

Battery dies - return to car to get back up - 24 sec to recover 0.1 @ 33.0'

4 min = .163 gal

1034	200 ml	32.0	6.5	10.08	478	1.57	8.44	217	185
1038	200 ml	32.0	6.65	10.17	478	1.56	8.45	218	185
1044	200 ml	32.0	7.0	10.45	478	1.21	8.46	216	226
1050	200 ml	32.1	7.25	10.58	479	0.99	8.47	215	300
1055	200 ml	32.2	7.40	10.91	479	0.87	8.47	214	329
1100	200 ml	32.2	7.57	11.03	460	0.79	8.47	211	361

Mud City

3/26/98 weather - partly cloudy, Mod wind, 55°F

Well is becoming more turbid as DO drops - other parameters stable - Options discussed with the office included a total draw down of water in well -

111) Lowered pump to 2 from POW increase rate to 1200 ml/min I'm concerned about battery life at this pumping rate + depth -

113) WL = 46' Total Volume removed = 3/25 - 7 gal + today 12 gals. raise pump to 15 ft above POW Come back tomorrow - Plan = ? - call office.

115b Setup @ 57D Static = 1.65 POW = 35.09 TOS = 16.0 Intake = 26.0 One well Vol = 33.4 x .163 = 5.44 gal

1200 Start Pump

1301 MW 56 Static 3.06 POW = 6.85 TOS = 4.5 Intake = 5.5

1308 Start Pump @ 200 ml MW-56 WL = 3.16 145L water WL maintained @ Top of pump One .62 gallons

3/26/97

Time	Rate	WL	Removal	Temp	Cond	DO	pH	Robot	Turb
1202	240	3.9							15.1
1209	250	4.0	1.0	10.11	600	0.34	8.81		16.0
1215	250	4.1	1.25	10.22	577	0.24	8.81		16.0
1220	240	4.1	1.30	10.31	555	0.24	8.81		16.0
1235	240	4.1	1.8	10.57	596	0.22	8.82		13.7
1240	240	4.2	2.0	10.40	595	0.21	8.81		16.1
1245	250	4.2	2.5	11.07	551	0.18	8.81		15.5

MW-57D  
Sample MW-57D # AL-143  
Net 1 NTU's - mid sample 17.8 NTU  
VOC S&D RIS  
CN  
EQ = 0.10 g/L RIS

← prior to cell

3/26/98

1350 Sample

Time	WT	Vol	Removed	Rate	Temp	Cool	DO	pH	Redox	Turb
1320	3.19	3.5	180	521	588	1.87	6.74	803	38.3	
1325	3.2	.55	200	477	586	1.86	6.74	303	33.2	
1330	3.2	.85	200	457	586	1.86	6.75	304	30.1	
1335	3.2	1.05	200	467	585	1.90	6.72	304	27.2	
1340	3.2	1.45	280	492	584	1.90	6.73	305	28.0	
1345	3.2	1.70	260	495	584	1.92	6.73	305	28.0	

\* A.L. 151 MW-56

Voc 524.2  
ME/E  
Eoc Filtrated  
Metals - 17.0 NTU  
Mid. Sample  
CN

Alk/Sulf/Cabr  
Nitrate/Nitrite  
Fe + 2 = 0.10 mg/L  
0.15 mg/L

MW 56D

3/26/98 1417

Setup @ MW 58D  
Spike @ 47.00'  
Spike = 1.85, POU = 57.29, Vol = 9.91

16 Pump well down to 18.0' removed

10.7 gallons Very Turbid

Time	WT	Vol	Rate	Shut	Temp	Cool	DO	pH	Redox	Turb
1420	3.15	0.25	180	12.07	611	1.3	8.91	151	190	
1435	3.28	0.75	200	11.85	614	0.34	8.93	126	261	
1450	3.3	1.25	200	12.63	615	0.26	8.55	112	243	
1500	3.38	1.5	200	12.42	615	0.21	8.93	102	203	
1510	3.35	1.8	200	12.20	615	0.19	8.94	95	272	
1520	3.35	2.20	200	12.46	617	0.17	8.94	90	218	
1525	3.38	2.50	200	12.32	617	0.16	8.94	88	242	
1530	3.42	2.70	200	12.03	614	0.15	8.94	86	254	

AL 152 MW 58D  
Sample Metals  
CN  
Mid Sample 226 NTU

3/26/98

1600 Run Rk-k for # AL141 AL159

VOC 524.2 w/ MHD Split

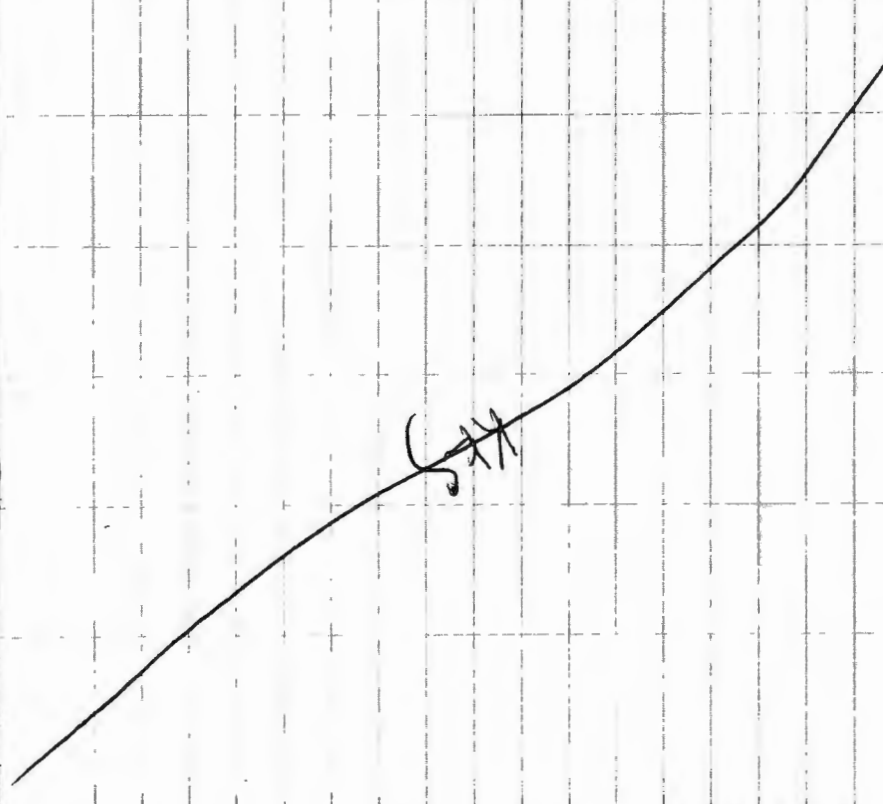
1603 Setup @ MW-36 Scribe 2.32'

POW = 16.58 TDS = 6.20 I.H.H.e = 11.0

Vol = 2.3 gal

1625 Start Pump @ 4.80 w/ Eqn 1 @ 2.7'

1755 Leave Site



3/26/98

MW-36

Time	WT	Vol	Rate	Temp	Cond	DO	pH	Redox	Turbidity
1635	2.7	0.6	480	6.87	675	0.53	6.84	311	8.9
1640	2.75	1.25	480	6.69	677	0.49	6.84	311	2.59
1647	2.50	2.5	480	6.52	672	0.54	6.84	311	1.47
1650									

Sample MW-36 ID # AL141

VOC 524.2 Matrix Spike/Dup (AL158) / MHD Split (AL141)

M/E/E

DOC (Filtered)

Alk/Sulf/Chlor

Nitrate/Nitrite

$Fe^{+2} = 0.02 \text{ mg/l}$

3/27/98 Water 70's

0710 O-Site

Battery didn't charge overnight -  
bought new "automatic charger", we  
will go to the 08/00 Tanker and  
get another battery

Calibrate H2O WQ Instrument

Recover Std Reading Set to Reading

DO	19.6/9.25	9.27	—	—
pH	7.00	6.99	—	—
	4.00	4.00	—	—

Cond 1000 1034 attempt to adjust - "out of Range"

Last night I cleaned the electrodes, and discovered the cell had not been secured.

05. The 1000 WQ standard value has dropped 70 WQ. I still cannot adjust calibration to 1000 WQ.

Redox	20.50	20.50	20.50	20.50
mV	294	278	254	254
	469	485		

Zobel 19.4°C = 390 mV

Arch 2100P Turbidimeter

Turbidity	430	439	—	—
UTV's	4.95	5.25	—	—
	48.9	50.3		

3/22/98 OUM Calibration - S/D 202  
100 ppm Isot Span - 101.5 Reading

0900 Pump MWSD at 100-150 ml/min

Turbidity 465 at 10 gal

650 120 gal

7 1000 30

7 1000 70 gal

Pull pump up slowly to

30' TOR - Turbidity 405

Pump 5 gal Turbidity 400

Sample MWSD AL 157

Metals NTU 400

~~1050 Setup CN~~

1050 Setup @ MW-27 10.34

Static = 3.68' POU 46.58

TDS = 5.0' Filter = 9.0" Vol = 1 gal

Historically very slow well - will

check recovery rates at different

drawdowns - if it cannot stabilize

at ~ 100 ml will pump dry

and sample later

110 WL dropping @ 5.0' / 100 ml/min

Drop to 7.0' (TOR) or Top of Pump

0.8 gal removed - WL below Top of Pump

No sign of recovery - pump down to

1123 in take well pumped to 9.0' - 1.2 gal removed

3/21/98

DON = 158 ppm

11:30

Setup @ MWU19 Static = 1.75

POR = 11.37 TOS = 6.7 Talc = 9.0

1:43

Start Pump - well has broken, risen just below ground surface - surface water is pooled near pond

Well Recovered very quickly - pumped 1.5 gallons to clear clogging + suspended debris

Odor detected when tubing was removed - swamp water - product?

Red deposits (green) at static water level - black deposit on bottom 3' of tubing.

Something funky is happening in this well!

*[Handwritten signature]*

3/21/98

Time 11:30

WL 3.20

Rate 680

Volume 3.0

Temp 5.16

Cond 4.70

DO .24

pH 6.68

Redox 139

Turb 21

AL 138

Chlor/Sulf

Nitrate/Nitrite

M/E/E

DOC (Filtered)

$F_{e+2} = 0.80$  - Inmediate reaction (pink water)

5.0 gallons in ASH-5W Draw

Sample #	Time	WL	Rate	Volume	Temp	Cond	DO	pH	Redox	Turb
PT-19	11:30	3.20	680	3.0	5.16	4.70	.24	6.68	139	21
1205	11:58	2.78	600	4.0	5.25	4.31	.12	6.58	143	5.91
1201	12:01	2.65	600	4.5	5.25	4.24	0.10	6.58	145	3.76
1203	12:03	2.65	600	5.0	5.31	4.23	0.10	6.52	148	3.55
1205	12:05	2.65	600	5.0	5.31	4.23	0.10	6.52	148	3.55



3/27/05

1250 Setup @ MW-30 SH-12 3.90

POW = 10.52 TOS = 5.0' Intake = 7.0'

Vol = 1 gal

1300 Start Pumping

Water level stable @ 4.10'

Time	Rate	Vol
1305	2.0	280
1310	2.75	520
1315	3.75	500

MW-30

Sample @ 1320

VOC 524.2

M/E/E

DOC - Filtered

ATK/Sulf/Cl/10

AT # 140

Nitrate/Nitrite

$\epsilon + 2 = 0.06 \text{ mg/l}$

Temp	Cond	DO	pH	Redox	Turb
4.02	476	4.05	6.84	290	11.1
4.15	495	4.04	6.83	292	8.0
4.15	494	4.00	6.82	284	7.0

3-27-08

1345 Setup @ MW53

POW = 1035 TOS = 6.5 Intake = 8.0'

Static WL = 5.1'

Start to pump

Time	Rate	Vol
15.5	1405	5.1
17.7	1410	4.7
25.5	1420	5.40
3.5	1430	5.30
4.5	1433	5.32
5.1	1436	5.30
6.0	1440	5.30
6.1	1440	5.30
6.14	1440	5.30
5.0	1436	5.30

MW53

Well is filled with fibrous brown strands - robots?

Other used water is clear, well makes a lot of water - Well

try pumping at 1000 ml and clear out the fibers.

1415 - had to pull pump up to clean bedding, it was clogged with the fibers?

1440 SAMPLE MW53 ALISO metals (3.46 NTU metals) expand ASH-5W Drum

Temp	Cond	DO	pH	Redox
6.54	688	6.70	6.64	311
6.31	685	6.60	6.59	323
6.09	682	6.71	6.61	329
6.10	680	6.41	6.55	335
6.06	679	6.38	6.56	333
6.06	679	6.37	6.56	334

34  
3/27/98

144

HW43 State = 2.60  
Paw 747 TDS 5.5 C.S  
Vol = 28 gal  
Start Pump 1510

3 - 4 - 5

Time	WL	Rate	Vol	Temp	Cond	pH	DO	Redox	Turb
1513	300	500	0.5	4.99	485	6.81	0.86	293	9.5
1516	300	500	1.0	4.46	480	6.80	0.46	255	4.51
1519	300	500	1.4	4.31	475	6.79	0.40	255	2.36
1522	300	500	1.75	4.21	473	6.80	0.39	256	2.29
1525	300	500	1.90	4.21	473	6.80	0.37	255	2.15

Sample MW-43  
1530 hrs  
Metals  
Mid sample NTU = 1.7 NTU

35  
3/27/98

1540 MW-27 WL = 5.3 - Ream one Vol.  
Return tomorrow for parameters  
1650 Leave S. Bakery supplies for  
Feed Ex Sat delivery.  
1715 Leave site for Dulles  
Buy Supplies

3/28/98

Return pump from MW S&D  
Collect samples @ Farmers Dump

0805 Set up for Air Sampling  
0845 Calibrate HAO Instrument

~~Parameter Reading Set for Redox Key~~  
~~105/9.19~~

Parameter	Std	Reading	Setpts	Reading
DO (mg/L)	200	9.17	8.84	9.17
pH	7.2	6.96	7.00	6.99
pH	4.00	4.00	—	—

Cond (uS) 1000 1072 cannot adjust lower

Redox (mV) 206/254 291 — —  
209/469 402 — —

Turb 20.6/100 387

0900 Trip Blanks for ITS + MKD  
# AL164 - Sampled by Lab 2/29/98 0900

3/29/98

0924 Setyp @ MW-27 Static = 4.20'  
 0945 Start Pump v taking Parameters - 1 volume  
 Removed 3/27/98

MW-27 #AL134

Time	WT	Vol	Rate	Temp	Cond	pH	DO	Robot	Turb
0950	5.80	2.25	400	200	7.66	5.1	2.00	6.44	310
0953	6.20	.35	700	7.81	5.2	2.01	6.61	311	31
0956	6.35	.45	700	7.65	5.8	2.03	6.98	313	28
0959	6.85	.60	200	7.51	5.2	2.05	7.13	314	27

VOC 524.2  
 M/E/E  
 DOC - F. Filtered  
 Fe<sup>2+</sup> = 0.22 mg/L  
 Sulf/Alk/Color  
 Alk/515  
 #AL134

3/28/98

MW 21A  
 POW = 20.4 TOS = 15.4 Turb = 18.0  
 Historic Slow well - Pump to T-stake -  
 Replace T-stake Tubing - too short  
 Static = 4.24  
 Vol = 2.6 gal

MW 21A #AL133

Time	WT	Vol	Rate	Temp	Cond	pH	DO	Robot	Turb
1110	12.54	2.25	180	10.99	10.71	6.99	0.62	260	6.11
1117	12.80	2.50	180	10.56	10.84	6.98	0.61	247	5.19
1122	13.10	2.70	160	11.23	10.89	6.57	0.60	243	5.00
1125	13.15	2.75	160	11.77	10.95	6.95	0.58	241	4.00

VOC CLP  
 M/E/E  
 DOC Filtered  
 Metals - 6.60 NTU Mid Sample  
 CN  
 Nitrate/Nitrite  
 Alk/Sulf/Color  
 #AL133

3/28/98 MW 46 AL 147 Oun = 1.00 ppm

POW = 11.45 TOS = 6.2 Idle 10.0

Static = 3.4 Vol = 1.3

1235 Start Pump

1305 Sample MW 46 AL 147

4.96 ml RTG @ Metals

DOC CLP

M/E/E

Metals - 4.96 uTU

CN

DOC - Filtered

N/N

A/S/C

Fe<sup>+2</sup> 0.05 mg/l

MW 46 # AL 147

Time	WL	Rate	Vol	Temp	Cold	DO	pH	Redox	Fe <sup>+2</sup>
1302	3.5	320	2.0	7.00	748	0.25	6.66	207	5.92
1259	3.5	320	1.75	6.95	748	0.24	6.66	201	4.99
1302	3.5	320	2.0	7.00	748	0.22	6.66	131	3.80

3/28/98 MW 48

Static = 2.96 POW = 11.5 Idle 8.0

TOS = 6.2 Vol = 1.4

1330

Sample

MW 48

8.23 RTG @ mid metals

Vol 5.23

M/E/E

Metals - 5.23 uTU

CN

DOC Filtered

Aik/Chlor/Sulf

Nitrate/Nitrite

MW 48 # AL 149

Time	WL	Rate	Vol	Temp	Cold	DO	#	Redox	Fe <sup>+2</sup>
1335	3.3	660	0.75	5.32	389	0.91	6.93	283	7.07
1335	3.3	660	1.50	5.35	388	0.90	6.92	285	6.62
1340	3.3	660	2.00	5.33	388	0.73	6.81	286	5.15
1346	3.3	660	2.50	5.29	387	0.72	6.92	286	5.00
1349	3.3	660	3.00	5.25	387	0.71	6.93	288	4.0

3-28-98 MW 45 AL 146

Setup Static = 2.55' POW = 8.34

TDS = 4.0 Intake @ 6.5

Stable @ 4.22' Vol = 2.94 gal

M/E  
Metals NTV = 2.67  
DOC Filtered  
CN  
Alk/Sulf/Chlor  
Nitrate/Nitrite  
Fe + 2 = 0.04

1445 Sample MW 45 #AL 146  
VOC SAT B  
2.67 @ mid metals

Time	WT	Rate	Vol	Temp	Cond	DO	pH	Redox	Turb
1408	415	240	0.65	7.16	520	2.28	6.83	305	2.82
1433	418	240	0.85	6.45	521	2.15	6.86	307	
1437	418	240	1.1	6.44	518	2.11	6.81	308	
1440	418	240	1.3	6.51	516	2.09	6.82	310	4.00

3/28/98 PT 12A AL 156

Setup Static = 3.1' POW 12.06

TDS = 6.0 Intake = 9.0'

Stable @ 5.6' Vol = 1.6

1600 Sample PT 12A #AL 156  
VOC CLP  
M/E  
DOC Filtered  
Nitrate/Nitrite  
Fe + 2 = 0.04

1600 Sample PT 12A #AL 156  
VOC CLP  
M/E  
DOC Filtered  
Nitrate/Nitrite  
Fe + 2 = 0.04

Time	WT	Rate	Vol	Temp	Cond	DO	pH	Redox	Turb
1533	517	110	.85	12.49	1540	2.26	6.70	413	1.87
1539	517	110	1.0	13.59	1550	2.18	6.7	409	1.50
1544	518	110	1.10	11.80	1570	1.98	6.7	420	
1551	518	110	1.25	12.21	1550	1.80	6.69	422	1.10
1555	518	110	1.35	11.91	1560	1.71	6.65	423	1.00
1558	518	110	1.45	12.36	1530	1.67	6.69	423	0.99

Covered cell with paper towel

Note - Ambient Temp = + 70°F - Temp measurement inaccurate

3/28/58

PT-24. OUM = 1.5 ppm  
 POW = 11.90 TD = 617 Inlet = 20  
 Skt H<sub>2</sub> = 3.3' Vol = 1.4 gal  
 WL Skt H<sub>2</sub> at 4.4' - 620 ml/min

PT-24

Time	WT	Vol	Rate
1640	4.4	680	6.11
1644	4.4	620	5.85
1647	4.4	620	5.96
1650	4.4	620	5.96

Doc - filtered  
 M/E/B  
 VOC CRP  
 Sample PT-24 #AL 136  
 Aik/Cabr/Suf  
 Nitric/Nitric  
 T<sub>0</sub> + 2 = 0.00 ms/l

Temp	Cold	DO	pH	Redox	Turb
6.11	6.76	5.85	6.7	353	4.74
5.85	6.70	5.85	6.7	356	3.50
5.96	6.67	5.81	6.7	357	3.10
5.96	6.64	5.82	6.7	358	2.20

*[Handwritten signature]*

3/28/58

1720 Wait @ Post 5 to be let out -  
 The remaining 3 wells have pumps set - ready for tomorrow sampling.  
 Put away equipment - paperwork  
 1515 Leave Site

3/29/58  
0810

On Site - Prep for last 3 wells  
 OUM STD Calibrations  
 100 ppm Isobut span - Reading = 99.5

H<sub>2</sub> 2100P Turbiditymeter Calibration Check

Std	Reading
430	433
48.9	48.3
4.95	4.94

H<sub>2</sub>O Calibration

~~Parameter Reading Set to Reading~~  
~~9.3~~

Redox

ppm	Reading	Set to	Reading
9.3	9.63	9.3	
2.00	6.99		
4.00	4.01		

Cold

Temp	Reading	Set to	Reading
1000	1060	Cannot set lower	
100	96.1		

Redox

ppm	Reading	Set to	Reading
200	287	295	295
200	497		

3/25/88 Weather - Sunny, 70's, Windy OUM = 1.0

0945 Raise Blank of pump @ MW28  
# AL161 - including MRD Split

VOC CLP  
M/E/E  
Metals

CN

Vol = 25 gal

MW29

Static 5.95

POW = 10.54 TOS = 5.0 Intake = 8.0

0955 Start Pump Stable @ 6.34 640 ml/min

Time	wt	Rate	Vol	Temp	Cond	DO	pH	Redox	Turb
1007	6.6	520	1.7	5.53	691	7.53	6.55	336	15.4
1010	6.6	520	2.0	5.51	693	7.47	6.55	338	17.8
1013	6.6	520	2.3	5.46	692	7.51	6.55	340	6.3
1016	6.6	520	2.6	5.48	695	7.40	6.57	342	6.2
1019	6.6	520	2.9	6.45	699	7.39	6.56	343	5.5

MW29 - Sample 1020 QA/QC

#AL139 VOC/CLP SA, MS/MSD, DUP (AL160), MRD,

M/E/E #E/E SA, DUP, MRD

Metals SA, MS/MSD, Dup, MRD

CN SA, MS/MSD, Dup, MRD

Alk/Sulf/Chlor  
DOC (Filtered) } SA + DUP

Fe<sup>+2</sup> = 0.02 Nitrate/Nitrite

Fe<sup>+2</sup> Dup = 0.02

Setup @ MW44A OUM - 0.0

POW = 12.48' Static = 3.60 TOS = 8.2'

Intake = 10.0 Vol = 1.45 gal

1130 Start Pumping - Very slow well clear  
Draw down to 7.5' Flow = 90 ml/min

VOC CLP  
M/E/E  
Metals - 1.25 NTU Mid Sample  
CN  
Alk/Sulf/Chlor  
Nitrate/Nitrite  
DOC Filtered  
Fe<sup>+2</sup> = 0.02 mg/l

MW44A #AL145

Time	wt	Rate	Vol	Temp	Cond	DO	pH	Redox	Turb
1146	7.2	90	1.3	8.75	2730	1.99	6.91	404	4.08
1150	7.2	90	1.4	9.00	2720	1.66	6.95	402	4.00
1153	7.3	90	1.45	9.05	2700	1.50	6.95	400	3.59
1155	Sample	MW44A	AL145						

5/29/98

1225 Setup @ PT-18 Static = 4.50 OUM = 0.8  
Flow = 11.7 TOS = 6.7 I.H. = 9.0

1227 Start Pump Vol = 1.2 gal  
Stable @ 5.1 240 ml/min

PT-18

Time	WL	Rate	Vol	Temp	Cond	DO	pH	Redox	Turb
1225	6.0	400	1.25	5.77	294	1.00	6.57	341	2.24
1250	6.05	400	1.60	6.13	298	0.70	6.57	342	1.43
1253	6.05	400	1.90	6.00	302	0.45	6.56	342	1.30
1256	6.05	400	2.25	5.98	306	0.44	6.56	343	1.25
1259	6.05	400	2.50	5.90	307	0.40	6.56	343	1.05

1300 Sample PT-18 AL # 135

VOC CLP  
H/E/E  
Metals - 1.14 NTU  
CN

ALK/Sulf/Chlor  
Nitrate/Nitrite  
Fe+2 = 0.01

5/29/98

PM weather = 75°+, Sunny, Windy



**2. Chain-of Custody Forms**



**PARSONS**  
**PARSONS ENGINEERING SCIENCE, INC.**  
 30 Dan. Road  
 Canton, MA 02021  
 Phone: 781-401-3200  
 Fax: 781-401-2575

# CHAIN-OF-CUSTODY RECORD

JOB NO. ~~730769~~ **730769-01005**  
 PROJECT **Seneca July Monitoring**  
 CONTACT **Mike DeLorenzo**

LABORATORY **ITS**  
 ADDRESS **Colchester VT**  
 CONTACT **Chris Ollivette**

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	CN									
<b>FH-S</b>	<b>AL130</b>	<b>2/16/98</b>	<b>1345</b>		<b>water</b>	<b>X</b>											<b>3</b>	<b>524.2</b>
<b>FH-D</b>	<b>AL131</b>	<b>3/16/98</b>	<b>1335</b>		<b>water</b>	<b>X</b>											<b>3</b>	<b>524.2</b>
<b>SH-S</b>	<b>AL132</b>	<b>2/18/98</b>	<b>1355</b>		<b>water</b>	<b>X</b>											<b>3</b>	<b>524.2</b>
<b>ITS</b>																		

Sampled and Relinquished by  
 Sign **[Signature]**  
 Print **Kerry Smith**  
 Firm **PARSONS**  
 Date **3/14/98** Time **1300**

Received by  
 Sign  
 Print  
 Firm  
 Date Time

VOA Vial  
 Glass Bottle  
 Plastic Bottle  
 Preservative

Relinquished by  
 Sign  
 Print  
 Firm  
 Date Time

Received by  
 Sign  
 Print  
 Firm  
 Date Time

Container Volume  
 PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic  
 A - Ice D - Acidified with HNO<sub>3</sub> G - Other  
 B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

Evidence Samples tampered with?  No  Yes  
 If Yes, explain in remarks.

REMARKS: (Sample storage, nonstandard sample bottles)  
**Start Qtr. Monitoring**  
**SDG**  
 Cooler #

# CHAIN-OF-CUSTODY RECORD

**PARSONS**  
**PARSONS ENGINEERING SCIENCE, INC.**  
 30 Dart Road  
 Canton, MA 02021  
 Phone: 781-401-3200  
 Fax: 781-401-2575

JOB NO. Sewer 1st Qtr. '98  
 PROJECT 730765-01005  
 CONTACT Mike Debesse

LABORATORY Glens Environmental  
 ADDRESS Whet Ridge CO  
 CONTACT Shel Green

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	CN						M/E/B			
AL153		3/21/98	1138		water											X	3	
AL154		↓	1115		↓											X	3	
AL152		↓	1540		↓											X	3	
AL155		3/25/98	0915		↓											X	3	
AL158		↓	1330		↓											X	3	
<i>KKS</i>																		

Sampled and Relinquished by  
 Sign Michael Wilkinson  
 Print Michael Wilkinson  
 Firm Parsons ES  
 Date 3-26-98 Time 1100

Received by  
 Sign  
 Print  
 Firm  
 Date \_\_\_\_\_ Time \_\_\_\_\_

VOA Vial   
 Glass Bottle  
 Plastic Bottle  
 Preservative

Relinquished by  
 Sign  
 Print  
 Firm  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Received by  
 Sign  
 Print  
 Firm  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Container Volume  
 PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic  
 A - Ice D - Acidified with HNO<sub>3</sub> G - Other  
 B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

Evidence Samples tampered with?  No  Yes  
 If Yes, explain in remarks.

REMARKS (Sample storage, nonstandard sample bottles)  
Project # 98-1785

Cooler #: #29

# CHAIN-OF-CUSTODY RECORD

**PARSONS**  
 PARSONS ENGINEERING SCIENCE, INC.  
 30 Dan Road  
 Canton, MA 02021  
 Phone: 781-401-3200  
 Fax: 781-401-2575

JOB NO. Seneca 1<sup>st</sup> Qtr 98  
 PROJECT 730769 - 01005  
 CONTACT Mike Duchesneau

LABORATORY ITS  
 ADDRESS Coldchester, VT  
 CONTACT Chris Oullette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)		
		DATE	TIME			VOA 52%2	SVOC	METALS	CN	DOC	Ammonia Chloride	Nitrite	Nitrate	Metals	CN				
AL153		3-24-98	1135		water	X				X						5			
AL154		3-24-98	1415		water	X				X						5			
AL142		3-24-98	1540		water	X				X						5			
AL155		3-25-98	0915		water	X				X						5			
AL148 <sup>HW 47</sup>		3-25-98	1330		water	X				X	X	X	X	X		9			
AL162		3-24-98 <sub>140</sub>	0900		water	X										2	Trip Blank <sup>sampled</sup> by lab		
<del>Blank</del>																			
Sampled and Relinquished by Sign: <u>Michael Wilkinson</u> Print: <u>Michael Wilkinson</u> Firm: <u>Parsons ES</u> Date: <u>3-26-98</u> Time: <u>1210</u>		Received by Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____		VOA Vial <u>X</u>		Glass Bottle		Plastic Bottle		Preservative <u>A</u> <u>C</u>		Container Volume <u>40</u> <u>ML</u>		PRESERVATION KEY: C - Acidified with HCl A - Ice B - Filtered D - Acidified with HNO <sub>3</sub> E - Acidified with H <sub>2</sub> SO <sub>4</sub>		F - NaOH + Ascorbic G - Other		REMARKS: (Sample storage, nonstandard sample bottles) <u>DOC - Field Filtered (0.45µm)</u>	
Relinquished by Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____		Received by Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____		Evidence Samples tampered with? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, explain in remarks.		Cooler #: <u>002</u>													



PARSONS ENGINEERING SCIENCE, INC.

30 Dan Road  
Canton, MA 02021 Phone: 781-401-3200  
Fax: 781-401-2575

# CHAIN-OF-CUSTODY RECORD

JOB NO. Seneca 1st Qtr 98  
PROJECT 730769-01005  
CONTACT Mike Duchesneau

LABORATORY ITS  
ADDRESS Colchester, VT  
CONTACT Chris Olette

nw-59  
mw-60  
mw-40  
pr26  
pr11

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES							NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)		
		DATE	TIME			VOA	SVOC	METALS	CN	Allyl Sulfide	Diethyl amine	Metals			CN	
AL153		3-24-98	1135		water					X	X				2	
AL154		3-24-98	1415		water					X	X				2	
AL142		3-24-98	1540		water					X	X				2	
AL137		3-25-98	1220		water							X	X		2	
AL155		3-25-98	0915		water					X	X				2	
<del>Handwritten 'H2O' and 'E' with diagonal lines across the table.</del>																

Received by  
Sign Michael Wilkinson  
Print Michael Wilkinson  
Firm Parsons ES  
Date 3-26-98 Time 1210

Received by  
Sign  
Print  
Firm  
Date  
Time

VOA Vial																
Glass Bottle																
Plastic Bottle										X	X	X	X			
Preservative										A	E	A	A			
Container Volume										L	L	L	L			

REMARKS: (Sample storage, nonstandard sample bottles)

Relinquished by  
Sign  
Print  
Firm  
Date  
Time

Received by  
Sign  
Print  
Firm  
Date  
Time

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic  
A - Ice D - Acidified with HNO<sub>3</sub> G - Other  
B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

Evidence Samples tampered with?  No  Yes  
If Yes, explain in remarks.

Cooler #:

# CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01005  
PROJECT Seneca 1<sup>st</sup> Qtr 98  
CONTACT Mike Duchesneau

LABORATORY Evergreen Labs  
ADDRESS Wheat Ridge, CO  
CONTACT Shea Gramer

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES							NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)			
		DATE	TIME			VOA	SVOC	METALS	CN	H/E							
AL151		3-26-98	1350		Water						X					3	
AL141		3-26-98	1650		water						X					3	
AL140		3-27-98	1320		water						X					3	
AL138		3-27-98	1205		water						X					3	
<i>[Large handwritten 'X' and diagonal line across the table]</i>																	

Sampled and Relinquished by  
Sign Michael Wilkinson  
Print Michael Wilkinson  
Firm Parsons ES  
Date 3-27-98 Time 1630

Received by  
Sign  
Print  
Firm  
Date Time

VOA Vial X  
Glass Bottle  
Plastic Bottle  
Preservative  
Container Volume

Relinquished by  
Sign  
Print  
Firm  
Date Time

Received by  
Sign  
Print  
Firm  
Date Time

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic  
A - Ice D - Acidified with HNO<sub>3</sub> G - Other  
B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

Evidence: Samples tampered with?  No  Yes  
If Yes, explain in remarks.

REMARKS: (Sample storage, nonstandard sample bottles)  
Contract # 98-1785

Cooler #: 18

CHAIN-OF-CUSTODY RECORD

**P** PARSONS  
 PARSONS ENGINEERING SCIENCE, INC.  
 30 Dan Road  
 Canton, MA 02021  
 Phone: 781-401-3200  
 Fax: 781-401-2575

JOB NO. Seneca 1st Qtr 98  
 PROJECT 730769-01005  
 CONTACT Mike Duchesneau

LABORATORY ITS  
 ADDRESS Colchester, VT  
 CONTACT Chris Oullette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	VOA (524.2)	ANALYSES										NO. OF CONTAINERS	COMMENTS <small>(Special instructions, cautions, etc.)</small>
		DATE	TIME				SVOC	METALS	CN	As	Cr	Co	Fe	Mn	Ni	Pb		
X AL163		2-24-98	0900		water	X			X	X							2	Trip Blank Sample Lab
MWSD AL143		3-26-98	1245		water				X	X							2	
MWSD AL151		3-26-98	1350		water	X			X	X	X	X	X				9	
MWSD AL152		3-26-98	1535		water	X			X	X							2	
X AL159		3-26-98	1600		water	X											3	Revised 3/31/98 Rinse Blank KFS
MWSD AL141		3-26-98	1650		water	X				X	X	X					3	MS/MSD VOC Only KFS
MWSD AL158		3-26-98	1650		water	X											3	
MWSD AL157		3-27-98	1000		water				X	X							2	
PT-05 AL138		3-27-98	1205		water	X			X	X	X	X					7	
MWSD AL140		3-27-98	1320		water	X				X	X	X					7	
MWSD AL150		3/27/98	1440		water				X	X							2	
MWSD AL155		3/27/98	1530		water				X	X							2	

Sampled and Relinquished by:  
 Sign: [Signature]  
 Print: Randy Smith  
 Firm: Parsons ES  
 Date: 3/27/98 Time: 1700

Received by:  
 Sign:  
 Print:  
 Firm:  
 Date: Time:

Relinquished by:  
 Sign:  
 Print:  
 Firm:  
 Date: Time:

Received by:  
 Sign:  
 Print:  
 Firm:  
 Date: Time:

VOA Vial	X																			
Glass Bottle																				
Plastic Bottle								X	X											
Preservative	A	C						A	A	A	A	A								
Container Volume	40	AL						L	L	L	L									

PRESERVATION KEY: C - Acidified with HCl F - NaOH  
 A - Ice D - Acidified with HNO<sub>3</sub> Ascorbic Acid  
 B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub> G - Other

REMARKS: (Sample storage, nonstandard sample bottles)  
  
 Annual 3/28/98  
  
 Cooler #: 367





PARSONS ENGINEERING SCIENCE, INC.

30 Derr Road  
Canton, MA 02021 Phone: 781-401-3200  
Fax: 781-401-2575

# CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

JOB NO. 730769-01005  
PROJECT Screen 1st Qtr. '98  
CONTACT Mike Delegnow

LABORATORY MRD  
ADDRESS Onaka NB  
CONTACT Lorne Perci Field

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES							NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	CN	Residuals	Other	Other			
AL161		3/29/98	0945		water	X		X	X	X				8	Rinse Blank
AL139		3/29/98	1020		water	X		X	X	X				8	
AL164		2/24/98	0900		water	X								2	Trip Blank

Sampled and Relinquished by  
Sign [Signature]  
Print Kenny Smith  
Firm Parsons ES  
Date 3/20/98 Time 800

Received by  
Sign  
Print  
Firm  
Date Time

VOA Vial	X			X			
Glass Bottle							
Plastic Bottle			X	X			
Preservative	A	C	A	A	A	A	
Container Volume	10	1	1	1	1	1	

REMARKS: (Sample storage, nonstandard sample bottles)  
LIMS # 4989  
Sampling Program Complete

Relinquished by  
Sign  
Print  
Firm  
Date Time

Received by  
Sign  
Print  
Firm  
Date Time

PRESERVATION KEY:  
C - Acidified with HCl  
F - NaOH + Ascorbic  
A - Ice  
D - Acidified with HNO<sub>3</sub>  
B - Filtered  
E - Acidified with H<sub>2</sub>SO<sub>4</sub>  
G - Other

Evidence Samples tampered with?  No  Yes  
If Yes, explain in remarks.

Cooler #: 687

INT-3

10045

# CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

**PARSONS**  
**PARSONS ENGINEERING SCIENCE, INC.**  
 30 Dash Road  
 Canton, MA 02021  
 Phone: 781-401-3200  
 Fax: 781-401-2575

JOB NO. 730769-01005  
 PROJECT Sewage 1st Qtr. '98  
 CONTACT Mike Duchesneau

LABORATORY ITS  
 ADDRESS Colchester VT  
 CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES							NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME			VOA	METALS	CN	Mn	Pb	As	DOC		
AL136		3-28-98	1650							X	X	X	5	
AL156		3-28-98	1600							X	X	X	4	
AL146		3-28-98	1445				X	X	X	X	X		6	
AL133		3-28-98	1130				X	X	X	X	X		6	
AL134		3-28-98	1610							X	X	X	4	
AL161		3-29-98	0945				X	X	X	X	X	X	2	Rinse blank for AL139
AL149		3-28-98	1350				X	X	X	X	X		6	
AL135		3-29-98	1300				X	X	X	X	X		6	
<del>RES</del>														

Sampled and Relinquished by  
 Sign [Signature]  
 Print Kenny Smith  
 Firm Parsons ES  
 Date 3/30/98 Time 1000

Received by  
 Sign  
 Print  
 Firm  
 Date Time

VOA Vial															X
Glass Bottle															
Plastic Bottle						X	X	X	X						
Preservative						A	A	A	A	A					
Container Volume						D	F	E		E					
						L	L	L	L	40					

REMARKS: (Sample storage, nonstandard sample bottles)  
**DOC - Field Filtered**  
**0.45m**  
**Program Complete**

Relinquished by  
 Sign  
 Print  
 Firm  
 Date Time

Received by  
 Sign  
 Print  
 Firm  
 Date Time

PRESERVATION KEY:  
 C - Acidified with HCl  
 F - NaOH + Ascorbic  
 G - Other  
 A - Ice  
 D - Acidified with HNO<sub>3</sub>  
 B - Filtered  
 E - Acidified with H<sub>2</sub>SO<sub>4</sub>

Evidence Samples tampered with?  No  Yes  
 If Yes, explain in remarks.

Cooler #:  
**767**

# CHAIN-OF-CUSTODY RECORD

**PARSONS**  
PARSONS ENGINEERING SCIENCE, INC.

30 Dan Road  
Canton, MA 02021  
Phone: 781-401-3200  
Fax: 781-401-2575

JOB NO. 730769-01005  
PROJECT Seawater 1st Qtr. '98  
CONTACT Mike Dubois

LABORATORY ITS  
ADDRESS Coldwater VT  
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME			VOE	SVOC	METALS	CN	Minerals	Microb	MS/SMR	Color	DOC			
<del>AL145</del>		<del>3-29-98</del>	<del>1300</del>														
MW-46 AL147		3-28-98	1305		water	X	X	X	X	X	X					9	
MW-47 AL145		3-29-98	1155		↓	X	X	X	X	X	X					9	
MW-29 AL139		3-29-98	1020			X	X	X	X	X	X					17	water spike (VOC Metals + CN)
MW-29 AL160		3-29-98	1020			X	X	X	X	X	X					5	
AL164		2-29-98	0900			X										2	Trip Blank
MW-27 AL134		3-28-98	1010			X										3	
MW-45 AL146		3-28-98	1445			X										3	
PT-12A AL156		3-28-98	1600			X										3	
PT-21A AL133		3-28-98	1130			X										3	
MW-48 AL149		3-28-98	1350			X										2	
PT-24 AL136		3-28-98	1450			X										3	

revised  
3/31/98  
KKS

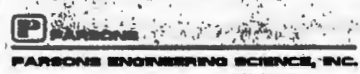
Sampled and Relinquished by  
Sign [Signature]  
Print Kerry Smith  
Firm Parsons ES  
Date 3/30/98 Time 1100

Received by  
Sign  
Print  
Firm  
Date  
Time

VOA Vial	X	X																		
Glass Bottle																				
Plastic Bottle						X	X	X	X											
Preservative	A	A	A	A	A	A	A	A	A											
Container Volume	40	40	40	40	40	40	40	40	40											

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic  
A - Ice D - Acidified with HNO<sub>3</sub> G - Other  
B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

REMARKS: (Sample storage, nonstandard sample bottles)  
**DOC Field Filtered**  
**0.45-µm**  
**Program Complete**  
Cooler #: **867**



30 Dan Road  
Canton, MA 02021  
Phone: 781-401-3200  
Fax: 781-401-2575

# CHAIN-OF-CUSTODY RECORD

JOB NO. 730765-01005  
PROJECT Spence 1st Qtr '98  
CONTACT Mike Duchesneau

LABORATORY ITS  
ADDRESS Colchester, VT  
CONTACT Chris Ouellette

PT 18

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES									NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	CN								
<u>AL131</u>	<u>8</u>	<u>3-26-98</u>	<u>0945</u>		<u>water</u>	<u>X</u>										<u>3</u>	<u>Runx blank for AL139</u>
<u>AL135</u>		<u>3-29-98</u>	<u>1300</u>		<u>water</u>	<u>X</u>										<u>3</u>	

Sampled and Relinquished by  
Sign [Signature]  
Print [Signature]  
Firm Parsons ES  
Date 3/30/98 Time 1100

Received by  
Sign  
Print  
Firm  
Date  
Time

VOA Vial X  
Glass Bottle  
Plastic Bottle  
Preservative A  
C

REMARKS: (Sample storage, nonstandard sample bottles)

Relinquished by  
Sign  
Print  
Firm  
Date  
Time

Received by  
Sign  
Print  
Firm  
Date  
Time

Container Volume 40  
ml  
PRESERVATION KEY:  
C - Acidified with HCl F - NaOH + Ascorbic  
A - Ice D - Acidified with HNO<sub>3</sub> G - Other  
B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

Evidence Samples tampered with?  No  Yes  
If Yes, explain in remarks.

Cooler #: 867

# CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01005  
PROJECT Sewer 1st Qtr. '98  
CONTACT Mike Duchesneau

LABORATORY Evergreen Labs  
ADDRESS White Ridge, CO  
CONTACT Shen Guinor

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)			
		DATE	TIME			VOA	SVOC	METALS	CN											
AL136		3/28/98	1650		water												X			
AL156		3/28/98	1600		↓												X			
AL146		3/28/98	1445															X		
AL133		3/28/98	1130															X		
AL134		3/28/98	1010															X		
AL161		3/29/98	0945															X		Rinse Blank for AL139
AL149		3/28/98	1350															X		
AL135		3/29/98	1300															X		
AL147		3/28/98	1305															X		
AL145		3/29/98	1155															X		
AL139		3-29-98	1020															X		
AL160		3-29-98	1020														X			
Sampled and Relinquished by Sign <i>Kerry Smith</i> Print <i>Kerry Smith</i> Firm <i>Parsons ES</i> Date <i>3/30/98</i> Time <i>1100</i>		Received by Sign Print Firm Date Time		VOA Vial Glass Bottle Plastic Bottle Preservative Container Volume		PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic A - Ice D - Acidified with HNO <sub>3</sub> G - Other B - Filtered E - Acidified with H <sub>2</sub> SO <sub>4</sub>										REMARKS: (Sample storage, nonstandard sample bottles) Contract # 98-1785 Sampling Complete Thank you, Kerry				
Relinquished by Sign Print Firm Date Time		Received by Sign Print Firm Date Time														Cooler #: 136				
Evidence Samples tampered with? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, explain in remarks.																				

132

132

2000-01-01

2000-01-01

2000-01-01

2000-01-01

2000-01-01

2000-01-01

2000-01-01

2000-01-01

2000-01-01

2000-01-01

2000-01-01

2000-01-01

2000-01-01

2000-01-01

## **APPENDIX B**

### **1. Historical Data Summary Tables**





PT-11  
Ash Landfill

Parameters	Source: U/Un	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	PES	PES	PES
		Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		624		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
<b>VOLATILE ORGANICS</b>																		
Chloromethane	µg/L	ND	-	ND	ND	ND	270	ND	17	ND	3.19	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ViVinyl Chlori	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND
1,1-Dichloroethene	µg/L	ND	-	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ClChlorofo	µg/L	ND	-	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	-	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CtCarbon Tetrachlori	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	-	ND	ND	ND	ND	1	ND	2.66	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BdBenze	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BrBromofo	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TeTetrachloroethe	µg/L	ND	-	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2,2-Tetrachloroethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ClChlorobenze	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Xylene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Total Volatile Organics	µg/L	0	0	1.5	0	0	270	2	24	0	5.85	0	0	0	0	0	2	0

PT-11  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>				<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>52524</b>	<b>52524</b>	<b>52524</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
Chloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	7	5	ND	17
Carbon Disulfide	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	7	5	0	17

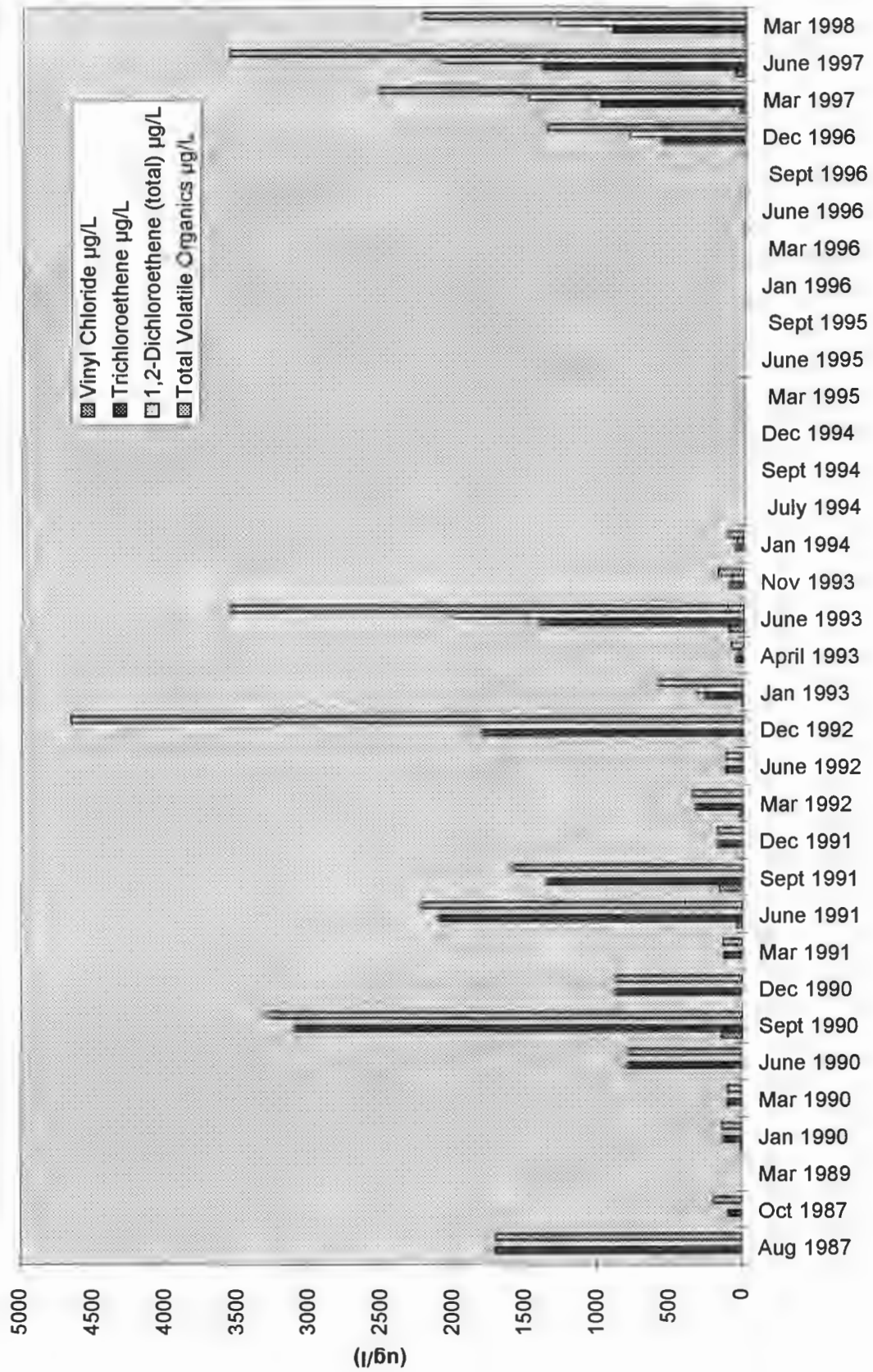
PT-11  
Ash Landfill

Parameters	Source: U/Un	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	PES	PES	PES
		Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
				1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>METALS</b>																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.7	-	4090.00
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	ND	ND	-	ND	-	0.04	-	ND	-	ND	-	ND	-	-	0.0024	-	1.20
Barium	mg/L	0.08	0.00	-	2.1	-	3	-	0.00	-	0.23	-	0.271	-	-	0.333	-	155.00
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0013	-	0.43
Cadmium	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	334	-	135000.00
Chromium	mg/L	ND	ND	-	0.016	-	0.25	-	ND	-	ND	-	ND	-	-	0.0161	-	5.00
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0372	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0403	-	6.20
Iron	mg/L	ND	ND	-	140	-	270	-	1.68	-	12.8	-	15.8	-	-	17.8	-	4860.000
Lead	mg/L	ND	ND	-	0.05	-	0.06	-	ND	-	ND	-	ND	-	-	0.0177	-	3.00
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69.2	-	37500.00
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.18	-	181.000
Mercury	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.00015	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0355	-	ND
Potassium	mg/L	2.63	2.1	-	20	-	26	-	2.48	-	4.47	-	4.7	-	-	5.27	-	3590.00
Selenium	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Silver	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Sodium	mg/L	59	46	-	54	-	30	-	38	-	39.8	-	37.1	-	-	46.6	-	35000.00
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0156	-	8.20
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.136	-	3232
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
<b>MISCELLANEOUS</b>																		
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	33	0.01	-	10.3	-	-	0.028	0.00	-	0.00	-	ND	-	-	ND	ND	0.05
Chloride	mg/L	49	46	-	40	-	48.2	-	41.4	-	42	-	35.4	-	-	40	43	48.0
Conductivity (field)	µmhos/cm	1200	770	490	740	1200	720	840	710	1112	1000	1110	1000	1010	-	700	-	800
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	870	-	-	-	918	-	-	1090	1100	900.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.1	0.12	-	0.34	-	0.27	-	0.22	-	0.5	-	ND	-	-	0.4	ND	0.19
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-
pH (Lab)	std. units	7.2	7.8	-	7.4	-	7.4	-	7.2	-	7.6	-	7.3	-	-	7.4	7.31	7.29
pH (field)	std. units	8.1	-	6.5	7.22	7.22	7.4	6.4	8.63	6.34	6.3	7.4	6.96	7.18	-	7.38	-	7.17
Sulfate	mg/L	160	190	-	170	-	68	-	204	-	1414	-	169	-	-	281	170	1010
Total Organic Carbon (TOC)	mg/L	2.7	4.4	-	52	-	17	-	16.1	-	9.4	-	7	-	-	3.2	3	ND
Temperature (field)	Celsius	-	-	9	8	14	14	8	7	11	13	7	8	10	-	6.8	-	12.6
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>200	-	-

PT-11  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1		
<b>METALS</b>																			
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>MISCELLANEOUS</b>																			
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0025	0.0012	0.0017	0.0027
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0.28	0.01
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	2.8	4.2	2.7
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	315	318	315	301
Total Organic Halogens/Halides (TOX)	mg/L	0.05	0.04	-	-	-	-	-	-	-	-	-	-	-	-	380	380	380	300
Chloride	mg/L	47	33	-	-	-	-	-	-	-	-	-	-	-	-	23.3	22.5	27.2	23.7
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1000	898	963	981
Conductivity (lab)	µmhos/cm	840	910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.39	0.27	-	-	-	-	-	-	-	-	-	-	-	-	0.09	0.05	0.4	0.17
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.34	7.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.06	7.06	6.84	6.85
Sulfate	mg/L	47	170	-	-	-	-	-	-	-	-	-	-	-	-	153	-	-	144
Total Organic Carbon (TOC)	mg/L	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PT-12



Note: Well was not sampled Mar 1989 and July 1994-Sept 1996.



PT-12  
Ash Landfill

Parameters	Source: Units	Galson	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Aug 1987	Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
					1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>VOLATILE ORGANICS</b>																			
Chloromethane	µg/L	ND	ND	-	624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Bromomethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	7	ND	ND	140	ND	ND	35	160	1.5	14	ND	ND	9	ND	100
Chloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	63
1,1-Dichloroethene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	7.15	ND	ND	ND	6	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	1700	94	-	129	100	790	3100	870	130	2100	1350	170	323	119	1800	260	45	1400
Dibromochloromethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	320	36	2000
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2800	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	95	-	ND	ND	ND	ND	ND	1	51	63	2.7	5.8	ND	54	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	1700	189	0	136	100	790	3291	870	133	2216	1580.15	174.2	342.8	119	4660	589	81	3563

PT-12  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>														
Chloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	32	70	15
Chloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Trichloroethene	µg/L	95	58	-	-	-	-	-	-	-	-	-	-	570	1000	1400	920
Dibromochloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Benzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Toluene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	81	44	-	-	-	-	-	-	-	-	-	-	790	1500	2100	1300
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Styrene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Total Volatile Organics	µg/L	176	102	0	0	0	0	0	0	0	0	0	0	1360	2532	3570	2235



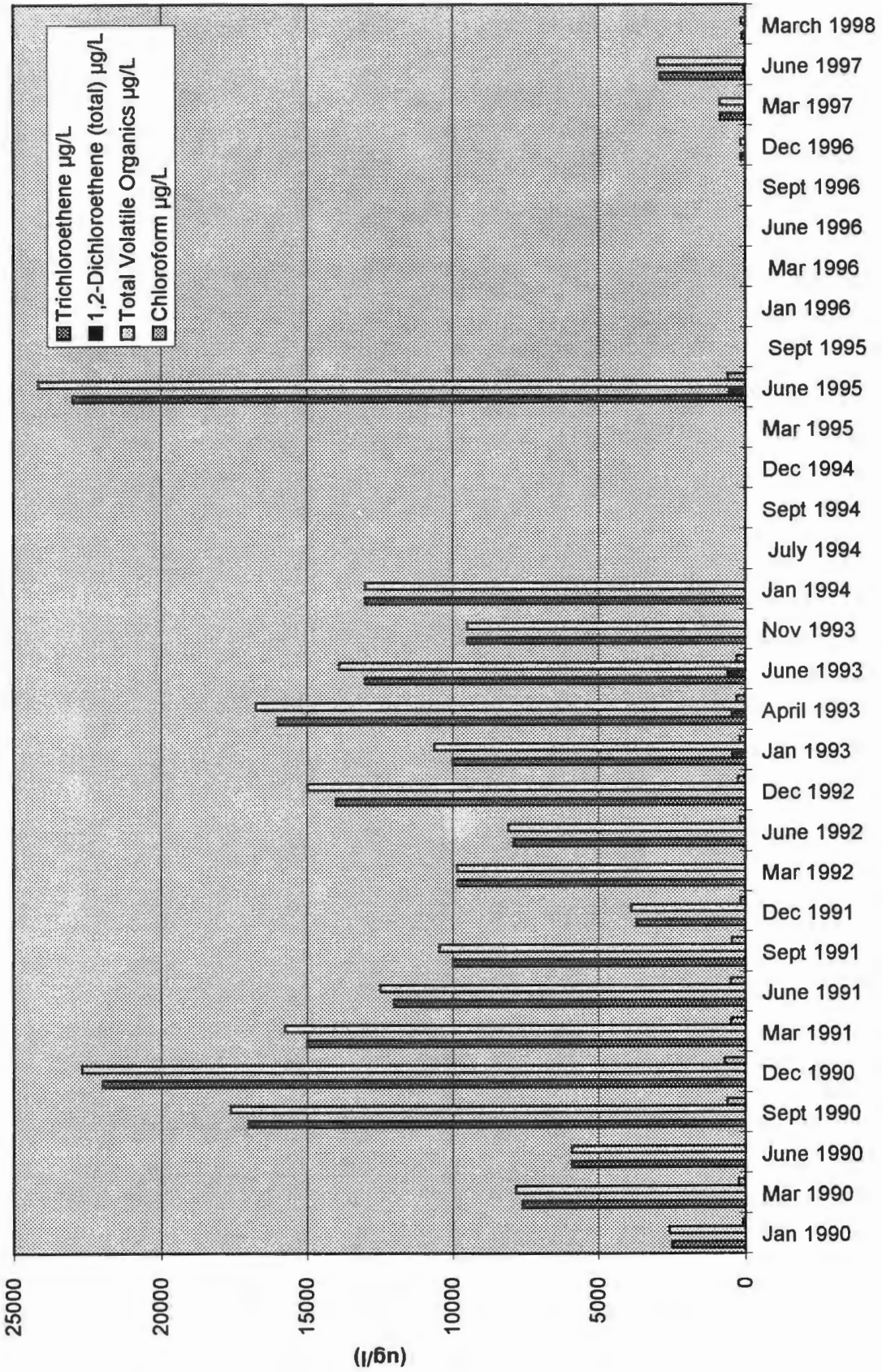
PT-12  
Ash Landfill

Parameters	Source: Units	Galson	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Aug 1987	Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993	
					1	1	2	3	4	1	2	3	4	2	3	4		1	2	3
<b>METALS</b>																				
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.15	-	5550
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	1.8
Barium	mg/L	-	0.05	0.031	-	ND	-	ND	-	0.04	-	0.073	-	0.142	-	-	-	0.1	-	68.2
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00064	-	0.4
Cadmium	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	264	-	267000
Chromium	mg/L	-	ND	ND	-	0.01	-	ND	-	ND	-	ND	-	ND	-	ND	-	0.0067	-	7.8
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0088	-	4.6
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0127	-	5.8
Iron	mg/L	-	ND	ND	-	4.5	-	7.8	-	2.03	-	3.76	-	20.3	-	20.3	-	8.57	-	6550
Lead	mg/L	-	ND	0.12	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	0.0094	-	4.1
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-	35700
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.08	-	288
Mercury	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0148	-	ND
Potassium	mg/L	-	2.58	1.8	-	ND	-	5.9	-	2.39	-	3.26	-	4.83	-	4.83	-	2.18	-	4160
Selenium	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND
Silver	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	ND
Sodium	mg/L	-	100	45	-	37	-	160	-	15.8	-	129	-	47.4	-	47.4	-	24.2	-	137000
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0065	-	8.3
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.133	-	38.1
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
<b>MISCELLANEOUS</b>																				
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	2.08	180	0.085	-	0.15	-	-	0.87	0.6	-	1.722	-	0.27	-	0.31	0.05	2.1	-	-
Chloride	mg/L	-	158	40	-	36	-	202	-	13.8	-	264	-	19.1	-	13.9	5	170	-	-
Conductivity (field)	µmhos/cm	-	1300	1400	520	460	2700	2500	860	630	2220	2210	1080	1635	970	925	-	1580	-	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	2250	-	1025	-	938	770	1700	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.008	ND	-
Nitrate/Nitrite Nitrogen	mg/L	-	0.33	1.4	-	0.44	-	0.21	-	0.32	-	0.24	-	0.52	-	0.01	ND	ND	ND	-
Nitrate as N - Calculated	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
pH (field)	std. units	-	7	7.8	-	7.1	-	7	-	7	-	7	-	7.2	-	7.16	6.89	6.98	-	-
pH (lab)	std. units	-	7	-	6.75	6.75	6.84	7.05	6.25	7.44	6.32	6.3	7.01	6.66	7.06	6.87	-	7.16	-	-
Sulfate	mg/L	-	289	300	-	250	-	388	-	159.5	-	337.5	-	263	-	210	110	340	-	-
Total Organic Carbon (TOC)	mg/L	-	2.9	2.4	-	33	-	7	-	9.8	-	8.1	-	2	-	3	2	4	-	-
Temperature (field)	Celsius	-	-	-	8	5	15	14	8	7	12	15	10	6	12	7	-	13.3	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	-	-	-	-

PT-12  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES		
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	Mar 1998			
		4	1	2	3		1	2	3	4	1	2	3	4	1	2		1		
<b>METALS</b>																				
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>MISCELLANEOUS</b>																				
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0005	<0.0005	<0.0013	<0.0025	
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0005	<0.0005	<0.0021	<0.0021	
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0072	0.0051	0.027	0.0032	
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14	0.07	0.52	0.04
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4	2.2	2.9	2.4
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	401	409	323	423
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	396	370	344	334
Total Organic Halogens/Halides (TOX)	mg/L	0.06	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	ND	7	-	-	-	-	-	-	-	-	-	-	-	-	-	116	134	169	115
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1630	1670	1650	1530
Conductivity (lab)	µmhos/cm	960	860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	1.1	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	0.1	0.05	0.18
Nitrate as N - Calculated	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	7.06	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-	6.51	6.68	6.63	6.69
pH (lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	170	140	-	-	-	-	-	-	-	-	-	-	-	-	-	427	430	456	458
Total Organic Carbon (TOC)	mg/L	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PT-18

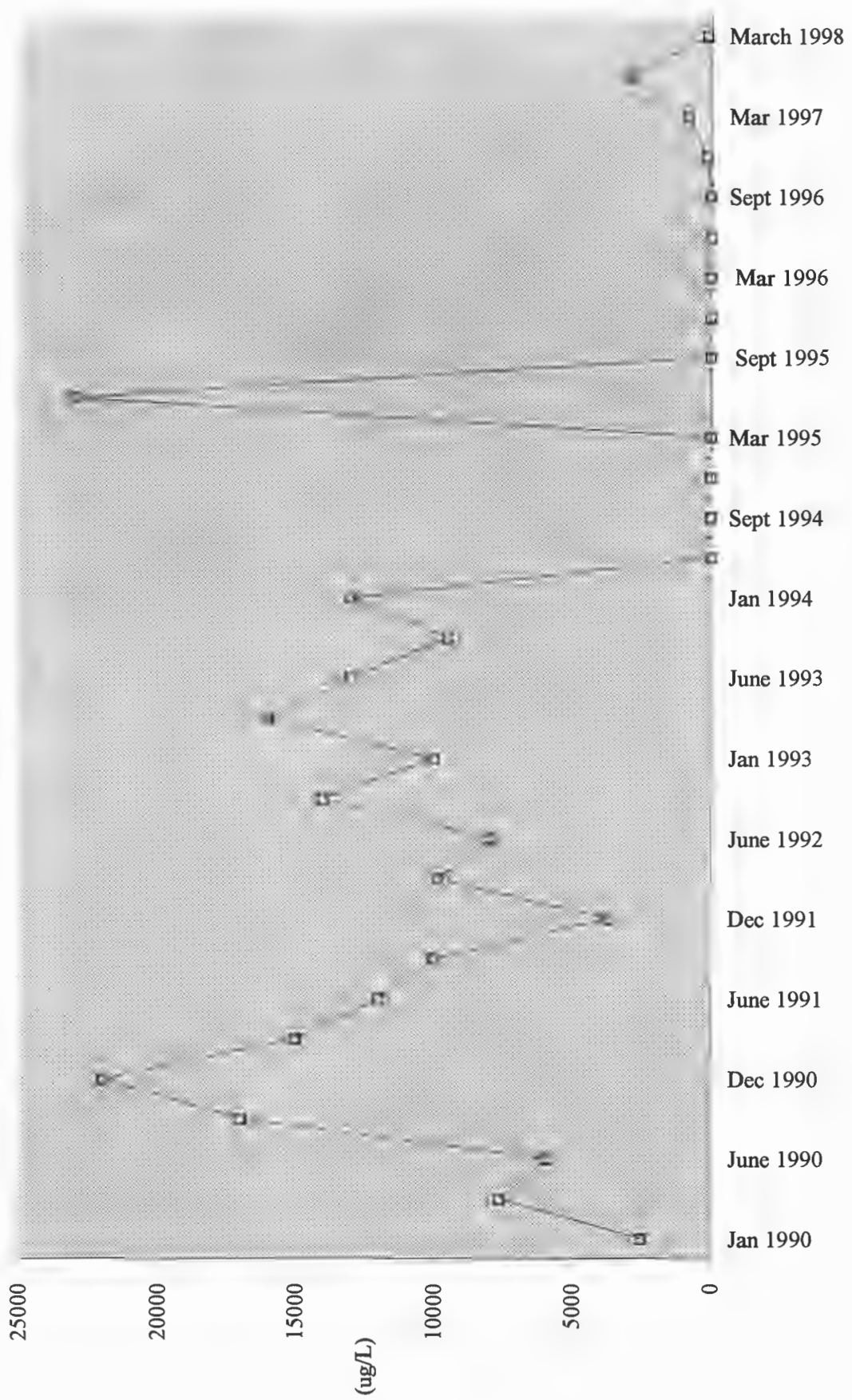


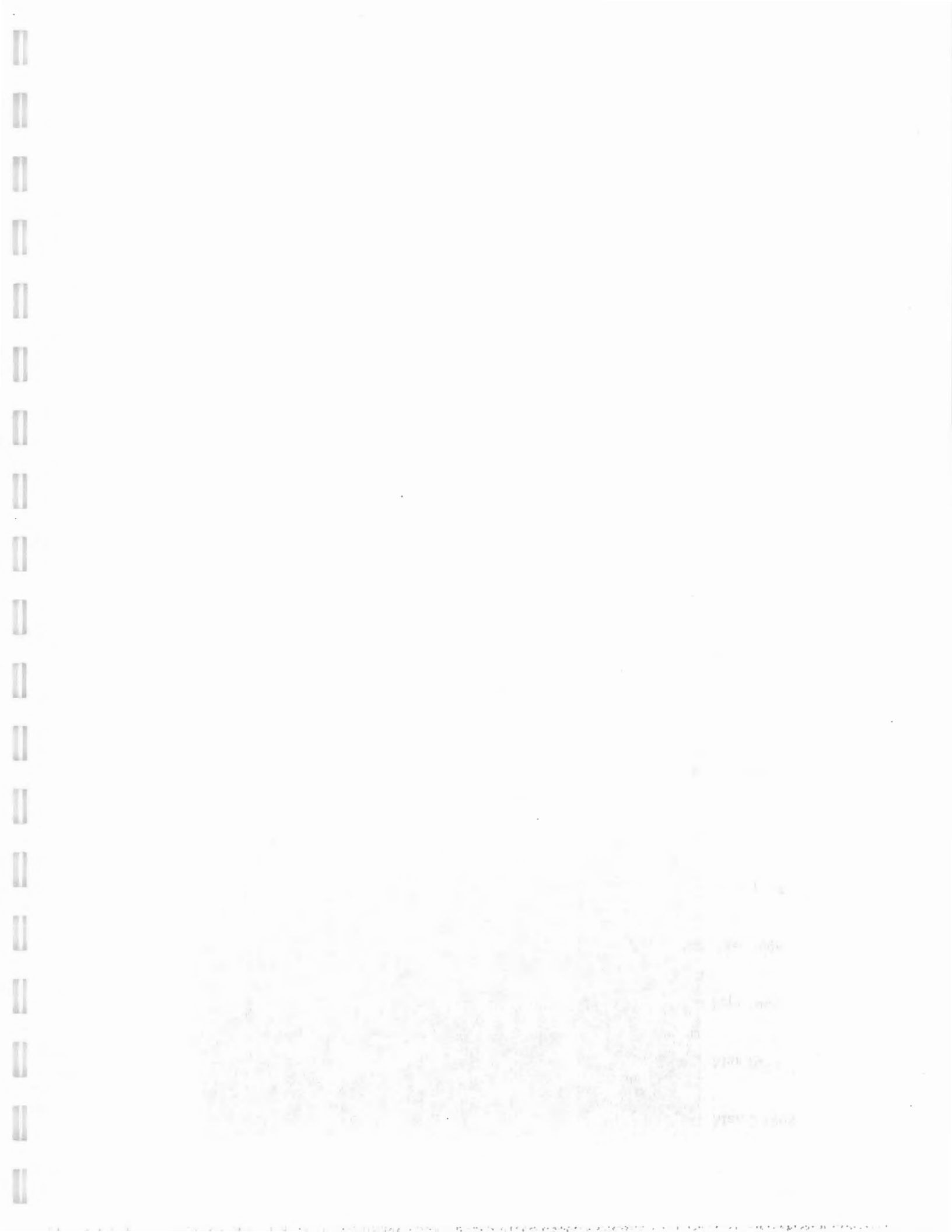
Note: Well was not sampled July 1994-Mar 1995 and Sept 1995-Sept 1996

Table with multiple columns and rows, containing data that is extremely faint and illegible. The table structure is not clearly discernible due to the low resolution and blurriness of the scan. Only some column headers are faintly visible at the bottom right of the table area.

Very faint text located at the bottom right of the page, possibly serving as a footer or a list of items. The text is illegible due to the scan quality.

Trichloroethylene in Well PT-18





PT-18  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>VOLATILE ORGANICS</b>		<b>624</b>	<b>624</b>	<b>624</b>	<b>624</b>	<b>624</b>	<b>624</b>	<b>624</b>	<b>624</b>	<b>624</b>	<b>624</b>	<b>624</b>	<b>624</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ViVinyl Chlori	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	86	230	ND	610	700	490	490	457	157	11.7	175	270	200	300	300
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	2500	7600	5900	17000	22000	15000	12000	10000	3710	9840	7920	14000	10000	16000	13000
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	2.58	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	250	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	440	450	590
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	700	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (tot)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	2586.00	7830.00	5900.00	17610.00	22700.00	15740.00	12490.00	10459.58	3871.70	9851.70	8095.00	14980.00	10640.00	16750	13890

PT-18  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998		
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>					<b>NYSCLP</b>					<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>			
Chloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Bromomethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Vinyl Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Chloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Methylene Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,1-Dichloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Chloroform	µg/L	ND	ND	-	-	-	-	600	-	-	-	-	ND	ND	ND	2			
1,2-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,1,1-Trichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Carbon Tetrachloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Bromodichloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,2-Dichloropropane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
cis-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Trichloroethene	µg/L	9500	13000	-	-	-	-	23000	-	-	-	-	160.00	840	2900	130			
Dibromochloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,1,2-Trichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Benzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
trans-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Bromoform	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Tetrachloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Toluene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Chlorobenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Ethylbenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1,2-Dichloroethene (total)	µg/L	ND	ND	-	-	-	-	550	-	-	-	-	ND	22	69	3			
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Acetone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Carbon Disulfide	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
4-Methyl-2-Pentanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
2-Hexanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Styrene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Xylenes (total)	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND			
Total Volatile Organics	µg/L	9500	13000	0	0	0	0	24150	0	0	0	0	160.00	862	2969	135			



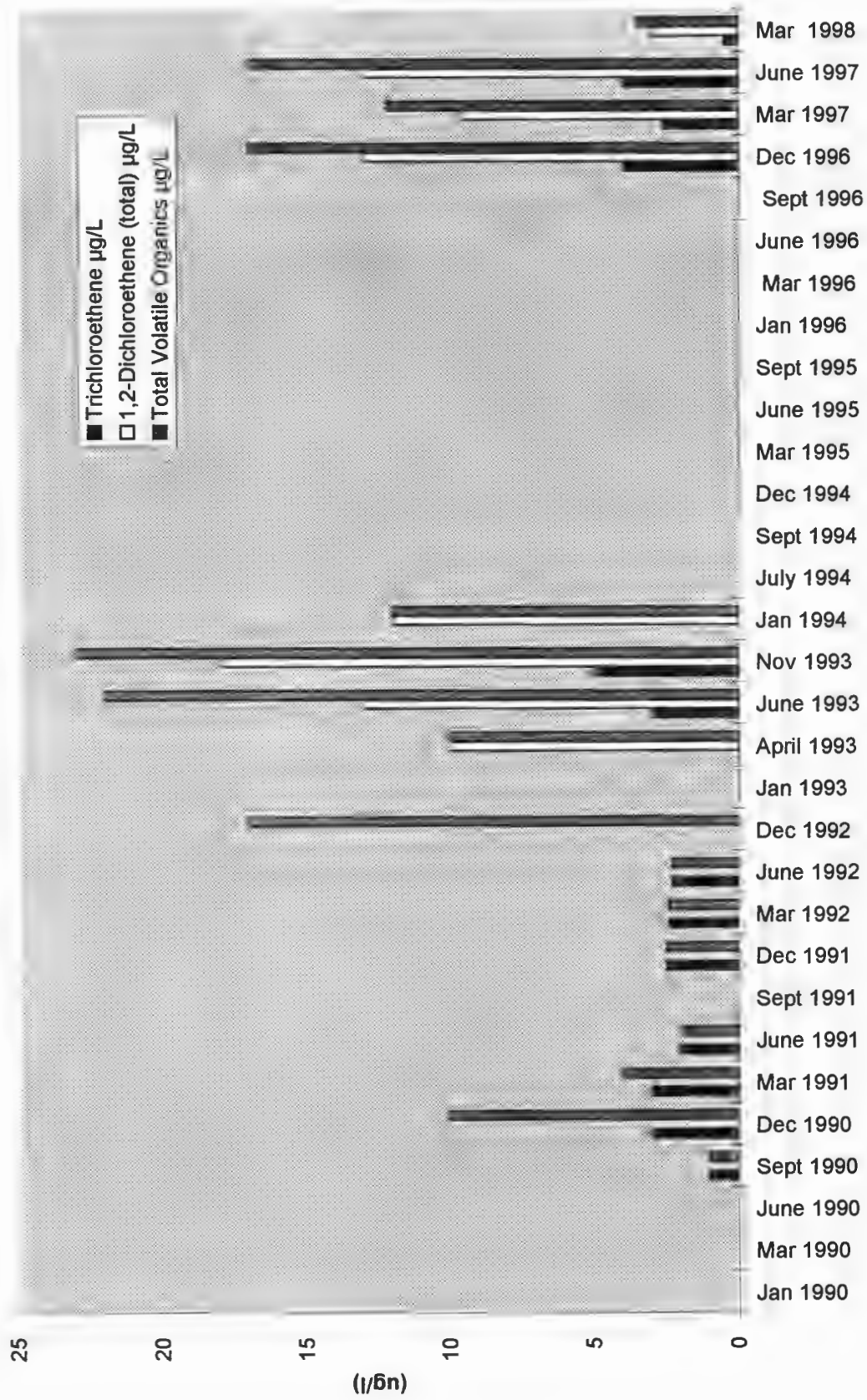
PT-18  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	Jan 1993 1	April 1993 2	June 1993 3
<b>METALS</b>																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	11.3	-	588
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	1.3
Barium	mg/L	-	ND	-	ND	-	0.00	-	0.043	-	0.07	-	-	0.01	-	42.2
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00079	-	0.49
Cadmium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Ca:Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	223	-	216000
Chromium	mg/L	-	0.003	-	ND	-	ND	-	ND	-	ND	-	-	0.0127	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0246	-	3.7
Iron	mg/L	-	2	-	8.5	-	3.89	-	1.38	-	8.14	-	-	14	-	825
Lead	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.0166	-	2.2
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	30.3	-	26500
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.02	-	812
Mercury	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.00036	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0185	-	ND
Potassium	mg/L	-	ND	-	5.1	-	2.77	-	2.31	-	2.79	-	-	3.54	-	2200
Selenium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Silver	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	86	-	99	-	102	-	107	-	95.5	-	-	100	-	101000
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00	-	ND
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.55	-	47.9
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
<b>MISCELLANEOUS COMPOUNDS</b>																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	0.333	-	-	1.88	1.7	-	4.422	-	4.52	-	-	4.5	12	6.2
Chloride	mg/L	-	72	-	75.2	-	76.8	-	66.8	-	52.6	-	-	57	59	65
Conductivity (field)	µmhos/cm	670	680	1800	1600	1400	1300	1650	1710	2100	1788	1370	-	975	900	1100
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	1548	-	-	1440	1300	1400
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate as N	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.01	ND	ND
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-
pH (Lab)	std. units	-	6.9	-	6.9	-	6.9	-	7.5	-	7	-	-	7.08	7.11	6.89
pH (field)	std. units	6.7	6.8	6.89	7	6.5	7.32	6.54	6.69	6.86	6.38	6.88	-	6.89	6.89	7.05
Sulfate	mg/L	-	340	-	245	-	28287	-	230	-	351	-	-	280	200	220
Total Organic Carbon (TOC)	mg/L	-	32	-	12	-	14.6	-	11.4	-	4	-	-	4	5	5
Temperature (field)	Celsius	8	5	15	14	10	8	13	15	9	6	11	-	7.25	5	12.7
Nephelometric Turbidity Un	NTUs	8	5	15	14	10	8	13	15	9	-	-	-	>200	46.9	-

PT-18  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	
<b>METALS</b>																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.2
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.6
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161000
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	2.4
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	186
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21900
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	347.00	112	473	7.7	7.7	7.7
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	6.20	4.2	3.6	ND	ND	ND
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4120
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20300
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	741
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
<b>MISCELLANEOUS COMPOUNDS</b>																		
Ethene	mg/L	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.04	-	-	-	-	0.31	0.02	0.17	0.058	0.058	0.058
CO2	mg/L	-	-	-	-	-	-	629	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.01	-	-	-	-	0.00	0.01	0.15	0.01	0.01	0.01
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	6.1	-	-	-	-	5.40	4.5	5.5	4.3	4.3	4.3
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	315.00	353	283	343	343	343
Alkalinity (total)	mg CaCO3/L	1.5	6	-	-	-	-	548	-	-	-	-	532.00	504	516	368	368	368
Total Organic Halogens/Halides (TOX)	mg/L	36	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	57.7	-	-	-	-	25.90	22.6	23.2	10.9	10.9	10.9
Conductivity (field)	µmhos/cm	1400	1300	-	-	-	-	-	-	-	-	-	1175.00	1081	1173	1173	1173	1173
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	1450	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	0.1	nd	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-
Nitrate as N	mg/L	-	-	-	-	-	-	ND	-	-	-	-	0.01	0.07	0.05	0.14	0.14	0.14
Nitrate as N - Calculation	mg/L	6.91	6.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	6.87	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	240	250	-	-	-	-	-	-	-	-	-	6.41	6.42	6.48	6.56	6.56	6.56
Sulfate	mg/L	6	4	-	-	-	-	231	-	-	-	-	191.00	154	196	140	140	140
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PT-21A



Note: Well was not sampled Jan 1993 and July 1994-Sept 1996



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Vertical text on the right side of the page, possibly a page number or reference code.

PT-21A  
Ash Landfill

Parameters	Source: Ur/Un	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	G/G1	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993	
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3	
<b>VOLATILE ORGANICS</b>																	
Chloromethane	µg/L	624	624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Trichloroethene	µg/L	ND	ND	ND	1	3	3	2	ND	2.5	2.4	2.3	ND	-	ND	3	
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	6
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	13
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Total Volatile Organics	µg/L	0	0	0	1	10	4	2	0	2.5	2.4	2.3	17	0	10	22	

PT-21A  
Ash Landfill

Parameters	Source: Units	PES Nov 1993 4	PES Jan 1994 1	PES July 1994 2	PES Sept 1994 3	PES Dec 1994 4	PES Mar 1995 1	PES June 1995 2	PES Sept 1995 3	PES Jan 1996 4	PES Mar 1996 1	PES June 1996 2	PES Sept 1996 3	PES Dec 1996 4	PES Mar 1997 1	PES June 1997 2	PES Mar 1998 1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>															
Chlorometha	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Bromometha	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Vinyl Chlori	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,1,1-Trichloroetha	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Trichloroethene	µg/L	5	ND	-	-	-	-	-	-	-	-	-	-	4	2.6	4	0.5
Dibromochloromethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,1,1,2-Trichloroetha	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Benzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Toluene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Chlorobenze	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	18	12	-	-	-	-	-	-	-	-	-	-	13	9.6	13	3
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
2-E-Hexano	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Styrene	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Total Volatile Organics	µg/L	23	12	0	0	0	0	0	0	0	0	0	0	17	12.2	17	3.5

PT-21A  
Ash Landfill

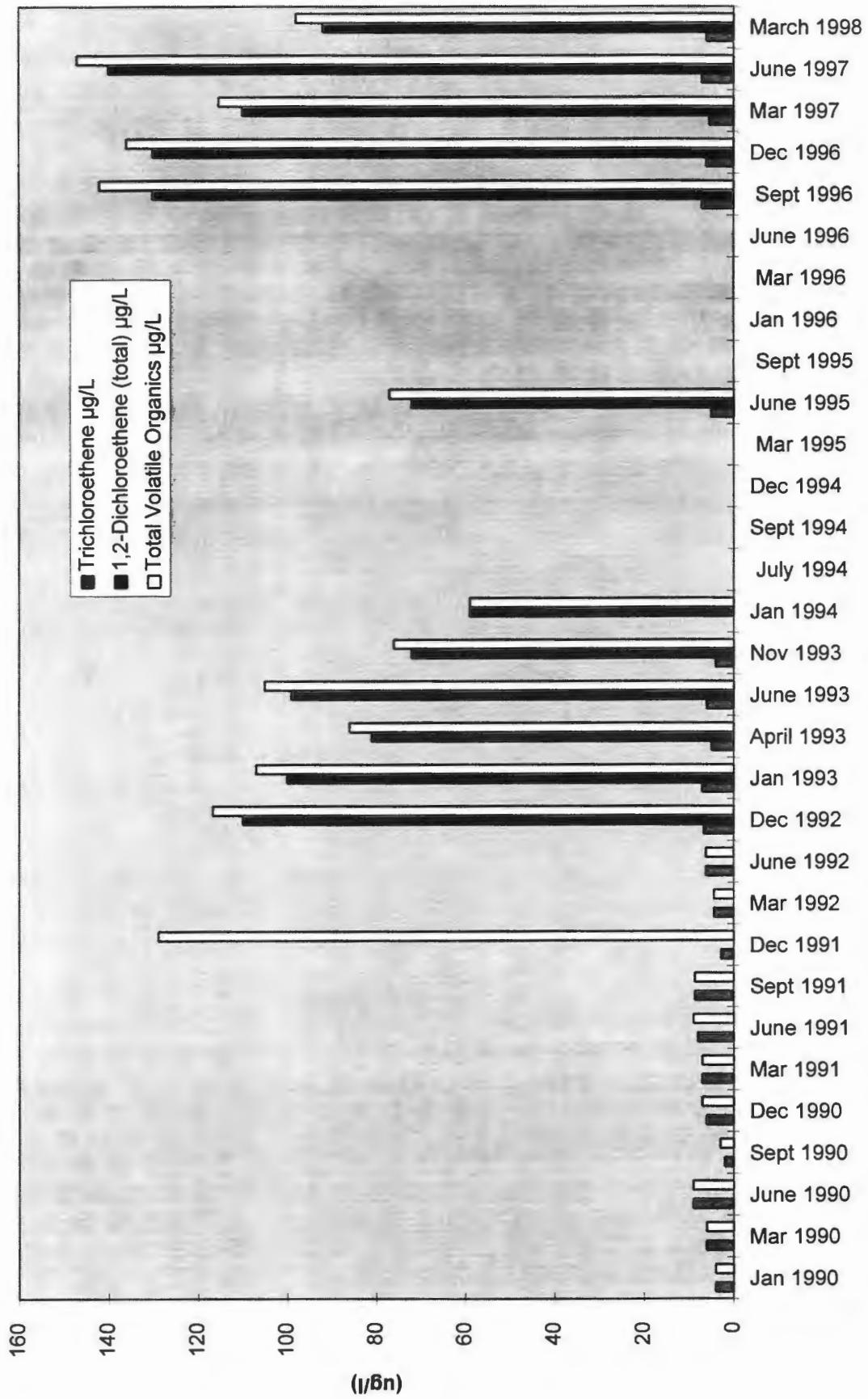
Parameters	Source: UrUn	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	G/G1	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993	
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3	
<b>METALS</b>																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	1.1	-	0.144	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	0.08	-	ND	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	85	-	0.842	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	0.027	-	ND	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	9.5	-	45.6	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	32	-	45.6	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																	
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (T)	mg/L	-	-	-	-	0.0	0.02	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	74.2	-	63	-	-	-	-	-	-	-	-	-	-
Conductivity (field)	µmhos/cm	460	400	670	750	900	410	980	1100	1130	1130	970	-	-	-	600	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	0.6	-	0.26	-	-	-	-	-	-	-	-	-	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	7.7	-	8	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	6.95	7.37	7.4	7.45	6.85	8.39	6.86	7.06	7.24	7.02	7.36	-	-	-	7.04	-
Sulfate	mg/L	-	-	-	136	-	170	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	mg/L	-	-	-	6.6	-	5.5	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	10	8	13	14	8	8	11	12	10	8	10	-	-	-	9	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PT-21A  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>METALS</b>																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	131
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65.1
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176000
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.8
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.7
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	582
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39900
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	317
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12600
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
SiSilv	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39500
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.5
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
<b>MISCELLANEOUS</b>																	
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0123	0.011	0.0022
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	0.1	0.1
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	1.9	2
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	330	212	297
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	314	272	244
Total Organic Halogens/Halides (T	mg/L	0.05	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlori	mg/L	84	67	-	-	-	-	-	-	-	-	-	-	-	119	138	134
Conductivity (field)	umhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	1171	1151	1121
CcConductivity (ls	umhos/cm	990	890	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.41	0.31	-	-	-	-	-	-	-	-	-	-	-	0.61	0.44	0.23
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (La	std. units	7.49	7.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	6.75	6.91	7.18
Sulfate	mg/L	140	120	-	-	-	-	-	-	-	-	-	-	-	203	203	198
Total Organic Carbon (TOC)	mg/L	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



PT-24



Note: Well was not sampled July 1994-Mar 1995 and Sept 1995-June 1996.

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100 EAST EAST  
CHICAGO, ILL. 60607

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BY

1987 JUN 15

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CHICAGO, ILL. 60607

PT-24  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993	
		1	1	2	3	4	1	2	3	4	2	3	4		1	2	3
<b>VOLATILE ORGANICS</b>		624	624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	1	1	ND	1	ND	126	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	4	6	9	2	6	7	8	8.61	2.8	4.4	6.2	6.7	7	5	6	
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	110	100	81	99
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2 Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	ND	ND	-	ND	ND	ND	ND
Total Volatile Organics	µg/L	4	6	9	3	7	7	9	8.61	128.8	4.4	6.2	116.7	107	86	105	

PT-24  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998		
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>					<b>NYSCLP</b>					<b>524.2</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>
Chloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	4	ND	-	-	-	-	5	-	-	-	-	7	6	5.4	7	6	7	6
Dibromochloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	72	59	-	-	-	-	72	-	-	-	-	130	130	110	140	92	92	92
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-
Acetone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	5	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	76	59	0	0	0	0	77	0	0	0	0	142	136	115.4	147	98	98	98

PT-24  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES	
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	Jan 1993 1	April 1993 2	June 1993 3	
<b>METALS</b>																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	13.5	-	1180	
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND	
Arsenic	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.0016	-	ND	
Barium	mg/L	-	ND	-	ND	-	0.065	-	0.13	-	0.054	-	-	0.116	-	49.8	
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	0.32	
Cadmium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	125	-	1113000	
Chromium	mg/L	-	0.041	-	ND	-	ND	-	0.037	-	ND	-	-	0.0176	-	ND	
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0088	-	ND	
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0111	-	2.6	
Iron	mg/L	-	34	-	1.2	-	8.79	-	33.7	-	4.13	-	4.13	17.8	-	1460	
Lead	mg/L	-	0.013	-	ND	-	ND	-	0.02	-	ND	-	-	0.0091	-	1.1	
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	17.2	-	12500	
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.375	-	51.1	
Mercury	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND	
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0206	-	ND	
Potassium	mg/L	-	ND	-	2.1	-	2.2	-	5.85	-	1.86	-	-	3.6	-	1890	
Selenium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.0012	-	ND	
Silver	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND	
Sodium	mg/L	-	15	-	14	-	13.4	-	16.2	-	14.1	-	-	16.7	-	15100	
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND	
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0195	-	4	
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0781	-	11.3	
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	1.8	
<b>MISCELLANEOUS</b>																	
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Halogens/Halides (TOX)	mg/L	-	0.0138	-	-	-	0.054	-	0.07	-	0.029	-	0.06	-	0.05	0.05	0.09
Chloride	mg/L	-	30	-	17.4	-	19.7	-	16.2	-	21	-	17.6	-	16	16	
Conductivity (field)	µmhos/cm	350	330	510	500	540	420	725	770	740	700	650	425	390	500	500	
Conductivity (lab)	µmhos/cm	-	-	-	-	-	540	-	-	-	627	-	663	620	650	-	
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	
Nitrate/Nitrite Nitrogen	mg/L	-	0.26	-	0.34	-	0.17	-	0.43	-	0.11	-	0.18	0.28	0.06	-	
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.18	-	-	-	
pH (Lab)	std. units	-	7.2	-	7	-	7.2	-	7.7	-	7.2	-	7.17	7.16	6.95	-	
pH (field)	std. units	6.8	7.44	7.25	7.3	6.35	7.82	6.62	7.19	7.28	7.12	7.27	6.7	7.13	7.54	-	
Sulfate	mg/L	-	120	-	125	-	80	-	93	-	75.7	-	55	44	37	-	
Total Organic Carbon (TOC)	mg/L	-	16	-	4.4	-	16.7	-	9.2	-	4	-	2	2	ND	-	
Temperature (field)	Celcius	7.5	7	15	16	9	7	13	15	8	6	11	6	5	13.7	-	
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	>200	-	-	-	

PT-24  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1
<b>METALS</b>																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																	
Ethene	mg/L	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	275	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.12	-	-	-	-	0	0.07	0.15	0	0
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	4.6	-	-	-	-	1.6	1.5	2	1.8	1.8
Redox Potential	mV	-	-	-	-	-	-	372.4	-	-	-	-	359	331	329	358	358
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	288	-	-	-	-	332	326	324	254	254
Total Organic Halogens/Halides (TOX)	mg/L	ND	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	13	14	-	-	-	-	40.3	-	-	-	-	29.4	33.3	27.8	22.1	22.1
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	810	840	801	664	664
Conductivity (lab)	µmhos/cm	650	750	-	-	-	-	763	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.33	0.26	-	-	-	-	0.15	-	-	-	-	1.3	0.91	0.66	0.78	0.78
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.17	7.33	-	-	-	-	7.09	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	6.62	6.68	6.65	6.7	6.7
Sulfate	mg/L	47	49	-	-	-	-	79	-	-	-	-	118	126	116	128	128
Total Organic Carbon (TOC)	mg/L	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

MW-27  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	Jan 1993 1	April 1993 2	June 1993 3
<b>VOLATILE ORGANICS</b>		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0

MW-27  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>				<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	
Chloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50



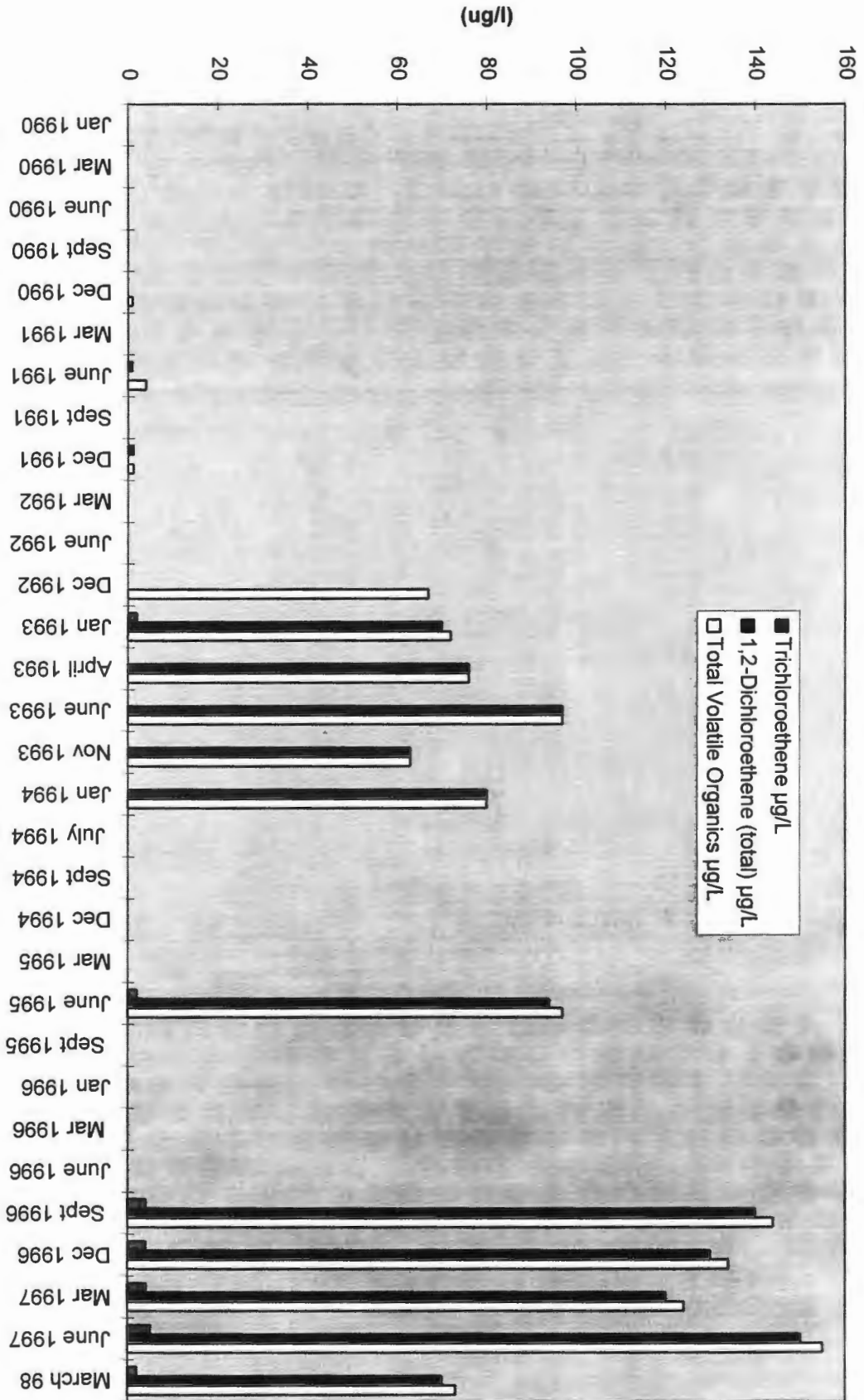
MW-27  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>METALS</b>																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.4	-	1090.0
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	0.0029	-	1.5
Barium	mg/L	-	-	-	-	-	0.072	-	-	-	0.072	-	-	0.0996	-	113.0
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00043	-	ND
Cadmium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	153	-	123000.0
Chromium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0066	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0048	-	2.8
Iron	mg/L	-	-	-	-	-	10.2	-	-	-	8.13	-	-	2.49	-	3320.0
Lead	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	0.0032	-	ND
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	15.5	-	19000.0
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.759	-	818.0
Mercury	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0058	-	ND
Potassium	mg/L	-	-	-	-	-	4.67	-	-	-	3.2	-	-	3.51	-	6210.0
Selenium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	1.1
Silver	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	-	-	-	-	17.8	-	-	-	20.1	-	-	17.4	-	16500.0
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	3.5
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0171	-	12.9
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
<b>MISCELLANEOUS</b>																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	0.023	-	-	-	0.01	-	-	ND	ND	ND
Chloride	mg/L	-	-	-	-	-	35.5	-	-	-	30.6	-	-	24	36	45
Conductivity (field)	µmhos/cm	480	470	650	560	560	490	855	860	870	660	690	-	427	445	600
Conductivity (lab)	µmhos/cm	-	-	-	-	-	630	-	-	-	615	-	-	661	700	760
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.04	-	-	-	ND	-	-	0.06	ND	ND
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.06	-	-
pH (Lab)	std. units	-	-	-	-	-	7.4	-	-	-	7.6	-	-	7.23	7.17	7.32
pH (field)	std. units	7.05	6.81	7.26	7.45	6.55	7.85	6.62	7.19	7.41	7.19	7.2	-	7.49	7.16	7.20
Sulfate	mg/L	-	-	-	-	-	90.4	-	-	-	80.8	-	-	41	47	53
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	18.9	-	-	-	8	-	-	1.4	2	ND
Temperature (field)	Celcius	7	6	15	16	8	7	14	19	7	6	12	-	6	7.5	13
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	>200	26.1	-

MW-27  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1
<b>METALS</b>																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																	
Ethene	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.184	-	-	-	-	-	0.002	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	268	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.21	-	-	-	-	-	0.17	0.41	0.72	0.22
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	2.3	-	-	-	-	-	1.9	1.9	2.3	2.8
Redox Potential	mV	-	-	-	-	-	-	394.7	-	-	-	-	-	287	323	289	314
Alkalinity (total)	mg CaCO3/L	0.08	0.05	-	-	-	-	292	-	-	-	-	-	318	288	300	258
Total Organic Halogens/Halides (TOX)	mg/L	34	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	37.8	-	-	-	-	-	19.4	23.5	24.6	18.9
Conductivity (field)	µmhos/cm	600	770	-	-	-	-	-	-	-	-	-	-	672	657	825	552
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	633	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	0.15	ND	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	0.098	-	-	-	-	-	0.03	0.03	0.07	2.18
Nitrate as N - Calculation	mg/L	7.42	7.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	7.73	-	-	-	-	-	-	-	-	-
pH (field)	std. units	72	64	-	-	-	-	-	-	-	-	-	-	7.03	6.98	6.91	7.13
Sulfate	mg/L	3	1	-	-	-	-	50.7	-	-	-	-	-	44.3	48.6	67.8	70.2
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**MW-29**



Note: Well was not sampled Sept 1990, Sept 1991, July 1994-Mar 1995 and Sept 1995-June 1996.

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1970-1980  
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2071-2080  
2081-2090  
2091-2100

MW-29  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES			
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993				
		1	1	2	3	4	1	2	3	4	2	3	4	4	1	2	3			
<b>VOLATILE ORGANICS</b>		624	624	624	DRY				624	DRY				624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	-	ND	ND	1	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	-	1	ND	2	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	-	ND	ND	1	-	1.2	ND	ND	ND	ND	2	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	-	76	97
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	67	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	-	ND	ND	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	1	0	4	0	1.2	0	0	67	72	76	97				

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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 98	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	
<b>VOLATILE ORGANICS</b>		NYSCLP	NYSCLP					NYSCLP					524.2	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	-	-	-	1	-	-	-	-	ND	ND	ND	ND	1	1
Carbon Tetrachloride	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	-	-	-	-	2	-	-	-	-	4	4	4.1	5	2	2
Dibromochloromethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	63	80	-	-	-	-	94	-	-	-	-	140	130	120	150	70	70
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-
Acetone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	63	80	0	0	0	0	97	0	0	0	0	144	134	124.1	155	73	73

MW-29  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	Jan 1993 1	April 1993 2	June 1993 3	
<b>METALS</b>																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	59.6	-	76000.0
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	-	-	-	-	ND	-	-	-	-	-	-	ND	0.0015	-	3.1
Barium	mg/L	-	-	-	-	-	0.227	-	-	-	-	-	-	0.327	0.427	-	420.0
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0032	-	4.4
Cadmium	mg/L	-	-	-	-	-	ND	-	-	-	-	-	-	ND	ND	-	2.4
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	278	-	274000.0
Chromium	mg/L	-	-	-	-	-	0.043	-	-	-	-	-	-	0.088	0.0809	-	116.0
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0636	-	82.4
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0851	-	172.0
Iron	mg/L	-	-	-	-	-	69.5	-	-	-	-	-	-	101	92.4	-	162000.0
Lead	mg/L	-	-	-	-	-	ND	-	-	-	-	-	-	0.028	0.0267	-	43.1
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-	63700.0
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7	-	4030.0
Mercury	mg/L	-	-	-	-	-	ND	-	-	-	-	-	-	ND	0.00018	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.132	-	191.0
Potassium	mg/L	-	-	-	-	-	5	-	-	-	-	-	-	8.42	9.06	-	8740.0
Selenium	mg/L	-	-	-	-	-	ND	-	-	-	-	-	-	ND	ND	-	ND
Silver	mg/L	-	-	-	-	-	ND	-	-	-	-	-	-	ND	ND	-	ND
Sodium	mg/L	-	-	-	-	-	16.1	-	-	-	-	-	-	18.3	21.9	-	26900.0
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0753	-	102.0
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.325	-	498.0
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	3
<b>MISCELLANEOUS</b>																	
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	0.037	-	-	-	-	-	-	0.03	0.04	0.06	0.10
Chloride	mg/L	-	-	-	-	-	18.7	-	-	-	-	-	-	21	15.2	14	23.0
Conductivity (field)	µmhos/cm	440	420	580	-	550	520	830	-	860	810	770	-	492	480	580	
Conductivity (lab)	µmhos/cm	-	-	-	-	-	620	-	-	-	-	-	-	725	761	770	750.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.46	-	-	-	-	-	-	0.31	0.24	0.38	0.17
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.24	-	-	-
pH (Lab)	std. units	-	-	-	-	-	7.2	-	-	-	-	-	-	7.2	7.13	7.11	7.13
pH (field)	std. units	6.85	6.94	7.25	-	6.2	7.9	6.65	-	7.17	7.08	7	-	7.34	7.4	7.63	
Sulfate	mg/L	-	-	-	-	-	65	-	-	-	-	-	-	93.6	87	71	66.0
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	75	-	-	-	-	-	-	5	2.1	ND	2.0
Temperature (field)	Celcius	8	7	15	-	9	7	13	-	10	5	10	-	6	5	13.5	
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	>200	-	-

MW-29  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 98	
<b>METALS</b>																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	362
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52.2
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138000
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	378
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	16.7	ND	ND	ND	ND
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168000
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	8.9	4.9	10.6	10.6	10.6
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	802
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16600
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
<b>MISCELLANEOUS</b>																		
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	0.24	-	-	-	-	0.03	0.02	0.22	0.02
Sulfide	mg/L	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	3.2	-	-	-	-	1.8	1.6	2.1	1.9
Redox Potential	mV	-	-	-	-	-	-	-	-	365.6	-	-	-	-	349	337	337	343
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	313	-	-	-	-	342	336	308	308
Total Organic Halogens/Halides (TOX)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	13	25	-	-	-	-	-	-	58.2	-	-	-	-	27.6	41.1	65.3	13.5
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	831	934	1028	699	
Conductivity (lab)	µmhos/cm	750	520	-	-	-	-	-	-	944	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.51	0.37	-	-	-	-	-	-	-	-	-	-	1.7	1.4	1.5	0.69	
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	0.21	-	-	-	-	-	-	-	
pH (Lab)	std. units	7.2	7.2	-	-	-	-	-	-	7.06	-	-	-	-	-	-	-	
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	6.64	6.64	6.61	6.56		
Sulfate	mg/L	6.1	79	-	-	-	-	-	-	126	-	-	-	117	151	204	119	
Total Organic Carbon (TOC)	mg/L	2	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



MW-30  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	Jan 1993 1	April 1993 2	June 1993 3
<b>VOLATILE ORGANICS</b>		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	1	ND	ND	-	-	2.4	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	ND	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	1	0	0	0	0	2.4	0	0	0	0	0	0

MW-30  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	
<b>VOLATILE ORGANICS</b>		NYSCLP	NYSCLP	NYSCLP				524.2		524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	
Chloromethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	0.3	ND	ND	ND	ND	
Bromomethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon Tetrachloride	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	µg/L	ND	ND	0.8	-	-	0.6	-	-	0.7	1	1	1	ND	ND	ND	ND	
Dibromochloromethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Bromoform	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	µg/L	-	-	-	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Acetone	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon Disulfide	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
2-Hexanone	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Styrene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Xylenes (total)	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	
Total Volatile Organics	µg/L	0	0	0.8	0	0	0.6	0	0	0.7	1	1	1.3	0	0	0	0	

MW-30  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>METALS</b>																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.06	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0019	-	-
Barium	mg/L	-	-	-	-	-	0.054	ND	-	-	0.049	-	-	0.0678	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00043	-	-
Cadmium	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	ND	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	119	-	-
Chromium	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	ND	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0041	-	-
Iron	mg/L	-	-	-	-	-	7.08	ND	-	-	3.92	-	-	0.682	-	-
Lead	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	0.0025	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.356	-	-
Mercury	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	0.00007	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Potassium	mg/L	-	-	-	-	-	2.38	ND	-	-	2.36	-	-	1.67	-	-
Selenium	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	ND	-	-
Silver	mg/L	-	-	-	-	-	ND	ND	-	-	ND	-	-	ND	-	-
Sodium	mg/L	-	-	-	-	-	15.8	ND	-	-	16.5	-	-	18.2	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0189	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
<b>MISCELLANEOUS</b>																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	ND	-	-	ND	-	-	ND	ND	-
Chloride	mg/L	-	-	-	-	-	26.6	-	-	-	32.5	-	-	28	28	-
Conductivity (field)	µmhos/cm	420	390	-	660	620	420	-	-	850	720	760	-	410	365	600
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	645	-	-	689	630	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	ND	-	-	0.13	0.35	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	0.05	-	-	-	-	-	-	0.13	-	-
pH (Lab)	std. units	-	-	-	-	-	7.3	-	-	-	7.4	-	-	7.29	7.24	-
pH (field)	std. units	6.9	7.11	7.27	7.3	7.15	8.03	-	-	7.25	7.14	7.12	-	7.14	7.4	7.81
Sulfate	mg/L	-	-	-	-	-	35.7	-	-	-	88.4	-	-	57	39	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	13.6	-	-	-	2	-	-	1.9	2	-
Temperature (field)	Celcius	6	4	16	15	6	5	-	-	10	5	12	-	4	5	14.4
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	>200	90	-

MW-30  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1
<b>METALS</b>																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																	
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0008	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.02	0	-	0.06
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	2	1.8	2.5	1.9
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	345	305	305	294
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	266	264	300	240
Total Organic Halogens/Halides (TOX)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	28	29	-	-	-	-	-	-	-	-	-	-	32.4	26.4	33.1	16.9
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	586	599	711	495
Conductivity (lab)	µmhos/cm	760	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.26	0.19	-	-	-	-	-	-	-	-	-	-	0.07	0.12	0.16	0.11
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.25	7.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.82	6.97	6.97	6.82
Sulfate	mg/L	57	32	-	-	-	-	-	-	-	-	-	-	47.7	42.2	46.1	45.7
Total Organic Carbon (TOC)	mg/L	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	Apr 1993	Jun 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>VOLATILE ORGANICS</b>														<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>
Chloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromomethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Vinyl Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methylene Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,1-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Tetrachloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromodichloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloropropane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Trichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Dibromochloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Benzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromoform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Tetrachloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Toluene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	
<b>VOLATILE ORGANICS</b>		NYSCLP	NYSCLP	NYSCLP		NYSCLP		524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	
Chloromethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	µg/L	ND	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0

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Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	Apr 1993	Jun 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>METALS</b>																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.836	-	1250.00
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.107	-	78.30
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	0.32
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	163	-	133000.0
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0076	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0029	-	4.8
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.772	-	1690.0
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0019	-	1.6
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	23.5	-	18300.0
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.517	-	127.0
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.79	-	2110.0
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	3.3
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	21.3	-	22100.0
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	4.0
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0137	-	18.3
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
<b>MISCELLANEOUS</b>																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	35	29	29.00
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	500	470	525.00
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	8070	760	750.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	3.4	2.5	1.70
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	7.3	7.7	7.07
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	7	7.30	7.45
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	63	78	68.00
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1.0	2.00
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	7	7.50	12.70
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	185	9.80	>100

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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1
<b>METALS</b>																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																	
Ethene	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	270	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	0	0.03	-	-
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	1.8	-	-	-	-	-	1.2	1.7	1.5	1.5
Redox Potential	mV	-	-	-	-	-	-	379.3	-	-	-	-	-	330	296	305	311
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	273	-	-	-	-	-	336	308	308	260
Total Organic Halogens/Halides (T)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	27	37	-	-	-	-	48.8	-	-	-	-	-	28.9	29.9	30.6	18.2
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	772	735	723	672
Conductivity (lab)	µmhos/cm	550	990	-	-	-	-	706	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.62	1.1	-	-	-	-	-	-	-	-	-	-	0.74	0.87	1.2	1.91
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.37	7.27	-	-	-	-	7.25	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.77	6.85	6.96	6.84
Sulfate	mg/L	30	70	-	-	-	-	62.6	-	-	-	-	-	62.4	70.3	62.8	56.3
Total Organic Carbon (TOC)	mg/L	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



MW-40  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	Jan 1993 1	Apr 1993 2	Jun 1993 3
<b>VOLATILE ORGANICS</b>													<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	
Chloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromomethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Vinyl Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methylene Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	2	ND
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,1-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Tetrachloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromodichloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloropropane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Trichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Dibromochloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Benzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromoform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Tetrachloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Toluene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	2.00	0.00

MW-40  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	
VOLATILE ORGANICS		NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2		
Chloromethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromomethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromochloromethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromoform	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acetone	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon Disulfide	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Hexanone	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Styrene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylenes (total)	µg/L	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

MW-40  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990 1	Mar 1990 1	June 1990 2	Sept 1990 3	Dec 1990 4	Mar 1991 1	June 1991 2	Sept 1991 3	Dec 1991 4	Mar 1992 2	June 1992 3	Dec 1992 4	Jan 1993 1	Apr 1993 2	Jun 1993 3
<b>METALS</b>																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	13.5	-	747.00
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0021	-	ND
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.153	-	58.20
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00077	-	ND
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	160	-	104000.00
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0347	-	4.40
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0099	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.009	-	ND
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	19.8	-	1140.00
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.005	-	1.00
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	19	-	11500.00
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.905	-	40.80
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00009	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0281	-	ND
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	4.54	-	1740.00
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	23	-	15100.00
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	1.20
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0184	-	5.00
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.309	-	10.90
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
<b>MISCELLANEOUS</b>																
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	0.02
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	5.9	4	6.00
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	435	390	450.00
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	643	610	570.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.004	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.11	ND	0.25
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.106	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	7.49	7.29	7.21
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.82	7.24	7.88
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	93	95	100.00
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.3	ND	2.00
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	7.3	6.00	11.80
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	150	6.20	>100

MW-40  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Nov 1993 4	Jan 1994 1	July 1994 2	Sept 1994 3	Dec 1994 4	Mar 1995 1	June 1995 2	Sept 1995 3	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1		
<b>METALS</b>																			
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>MISCELLANEOUS</b>																			
Ethene	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	0.0033	ND	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	221	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	0.01	0.14	0.26	0.02	-
Sulfide	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	1.4	-	-	-	-	-	0.9	1.1	1.8	1.8	-
Redox Potential	mV	-	-	-	-	-	-	-	362.3	-	-	-	-	-	309	304	317	288	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	217	-	-	-	-	-	249	236	240	246	-
Total Organic Halogens/Halides (TOX)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	6	5	-	-	-	-	-	12.5	-	-	-	-	-	7.7	7.6	8.6	7.9	-
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	566	525	566	583	-
Conductivity (lab)	µmhos/cm	560	590	-	-	-	-	-	486	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.13	0.15	-	-	-	-	-	0.13	-	-	-	-	-	0.05	0.05	0.06	0.06	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.43	7.41	-	-	-	-	-	7.41	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	7.12	7.16	7	6.89	-
Sulfate	mg/L	59	75	-	-	-	-	-	56.7	-	-	-	-	-	56	57.2	59.7	69.9	-
Total Organic Carbon (TOC)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

MW-44  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase II RI	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	22000	23000	240	180	170	71
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	200	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	160	ND	ND	ND	ND	4
Chloroform	µg/L	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	4	ND	130	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	37000	51000	20	20	20	13
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND
Benzene	µg/L	170	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	0.79
Bromoform	µg/L	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND
Toluene	µg/L	880	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	130	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	-	ND	ND
1,2-Dichloroethene (total)	µg/L	73000	13000	560	680	610	360
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	590	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	134130	204000	824	880	930	448.79

MW-44  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase IIA RI	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>METALS</b>							
Aluminum	mg/L	12300	-	-	-	-	51.8
Antimony	mg/L	ND	-	-	-	-	ND
Arsenic	mg/L	7.8	-	-	-	-	5.8
Barium	mg/L	317	-	-	-	-	58.8
Beryllium	mg/L	1.5	-	-	-	-	0.37
Cadmium	mg/L	ND	-	ND	ND	ND	ND
Calcium	mg/L	370000	-	-	-	-	449000
Chromium	mg/L	18.2	-	ND	ND	ND	11.5
Cobalt	mg/L	22.5	-	-	-	-	ND
Copper	mg/L	12.9	-	-	-	-	11.3
Iron	mg/L	18500	-	-	-	-	462
Lead	mg/L	147	-	ND	ND	ND	ND
Magnesium	mg/L	41100	-	-	-	-	104000
Manganese	mg/L	7120	-	626	705	1130	491
Mercury	mg/L	0.38	-	-	-	-	ND
Nickel	mg/L	30.5	-	ND	ND	1.9	ND
Potassium	mg/L	6680	-	-	-	-	328000
Selenium	mg/L	10	-	-	-	-	4.9
Silver	mg/L	ND	-	-	-	-	3.6
Sodium	mg/L	37600	-	-	-	-	89200
Thallium	mg/L	ND	-	-	-	-	ND
Vanadium	mg/L	13.3	-	-	-	-	7.6
Zinc	mg/L	117	-	-	-	-	7.2
Cyanide	mg/L	4.3	-	-	-	-	ND
<b>MISCELLANEOUS</b>							
Ethene	mg/L	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	0.172	0.018	0.055	0.0034
CO2	mg/L	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	0.62	0.14	2.13	0.02
Sulfide	mg/L	-	-	-	-	-	-
DOC	mg C/L	-	-	6.7	6.6	10.1	7.3
Redox Potential	mV	-	-	191	271	169	400
Alkalinity (total)	mg CaCO3/L	-	-	248	228	160	202
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-
Chloride	mg/L	-	-	253	328	514	414
Conductivity (field)	µmhos/cm	-	-	1770	2080	2790	2700
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	0.01	0.02	0.02	0.09
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-
pH (field)	std. units	-	-	7.06	6.93	7.11	6.95
Sulfate	mg/L	-	-	426	546	943	841
Total Organic Carbon (TOC)	mg/L	-	-	-	-	3	-
Temperature (field)	Celsius	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-

MW-45  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase IIA RI	Jan 1996 4	Mar 1996 1	June 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	0.5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	0.79
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0.5	0	0	0	0	0	0	0.79

MW-45  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase IIA RI	Jan 1996 4	Mar 1996 1	June 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>METALS</b>										
Aluminum	mg/L	21300	-	-	-	-	-	-	-	81.2
Antimony	mg/L	ND	-	-	-	-	-	-	-	ND
Arsenic	mg/L	2.7	-	-	-	-	-	-	-	ND
Barium	mg/L	243	-	-	-	-	-	-	-	42.9
Beryllium	mg/L	1.6	-	-	-	-	-	-	-	ND
Cadmium	mg/L	ND	-	-	-	-	ND	ND	ND	ND
Calcium	mg/L	181000	-	-	-	-	-	-	-	104000
Chromium	mg/L	29.1	-	-	-	-	ND	ND	ND	ND
Cobalt	mg/L	28.3	-	-	-	-	-	-	-	ND
Copper	mg/L	8.7	-	-	-	-	-	-	-	ND
Iron	mg/L	30100	-	-	-	-	-	-	-	166
Lead	mg/L	5.8	-	-	-	-	ND	ND	ND	ND
Magnesium	mg/L	22100	-	-	-	-	-	-	-	12300
Manganese	mg/L	1010	-	-	-	-	24.7	19.6	25	ND
Mercury	mg/L	0.18	-	-	-	-	-	-	-	ND
Nickel	mg/L	45.3	-	-	-	-	ND	ND	ND	ND
Potassium	mg/L	6220	-	-	-	-	-	-	-	721
Selenium	mg/L	0.99	-	-	-	-	-	-	-	ND
Silver	mg/L	ND	-	-	-	-	-	-	-	ND
Sodium	mg/L	8420	-	-	-	-	-	-	-	10400
Thallium	mg/L	ND	-	-	-	-	-	-	-	ND
Vanadium	mg/L	26.2	-	-	-	-	-	-	-	ND
Zinc	mg/L	116	-	-	-	-	-	-	-	6.1
Cyanide	mg/L	1.3	-	-	-	-	-	-	-	ND
<b>MISCELLANEOUS</b>										
Ethene	mg/L	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	0.0016	ND	0.0027	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	ND	0.02	0.27	0.04
Sulfide	mg/L	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	1.7	1.7	2.2	1.7
Redox Potential	mV	-	-	-	-	-	234	265	240	423
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	250	294	336	264
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	13.3	12.6	12	11.3
Conductivity (field)	µmhos/cm	-	-	-	-	-	547	592	617	516
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.04	0.01	0.03	0.03
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	6.79	6.8	6.94	6.69
Sulfate	mg/L	-	-	-	-	-	32.4	28.9	28.1	39.4
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-
Temperature (field)	Calcious	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-



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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES
		Jul 1993	Nov 1993	Dec 1996	Mar 1997	June 1997	Mar 1998
		Phase II RI	Phase II A RI	4	1	2	1
VOLATILE ORGANICS		NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	0.3
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	47	120	25	22	26	34
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	1	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	0.2
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	120	82	84	65	140	65
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	167	203	109	87	166	99.5

MW-46  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES
		Jul 1993	Nov 1993	Dec 1996	Mar 1997	June 1997	Mar 1998
		Phase II RI	Phase IIA RI	4	1	2	1
<b>METALS</b>							
Aluminum	mg/L	17900	-	-	-	-	104
Antimony	mg/L	49.6	-	-	-	-	ND
Arsenic	mg/L	1.7	-	-	-	-	ND
Barium	mg/L	214	-	-	-	-	57
Beryllium	mg/L	ND	-	-	-	-	ND
Cadmium	mg/L	ND	-	-	-	-	ND
Calcium	mg/L	153000	-	-	-	-	155000
Chromium	mg/L	27.5	-	-	-	-	3.3
Cobalt	mg/L	11.2	-	-	-	-	ND
Copper	mg/L	18	-	-	-	-	4.7
Iron	mg/L	23400	-	-	-	-	284
Lead	mg/L	8.3	-	-	-	-	ND
Magnesium	mg/L	18700	-	-	-	-	19000
Manganese	mg/L	614	-	-	-	-	23.2
Mercury	mg/L	0.09	-	-	-	-	ND
Nickel	mg/L	30	-	-	-	-	ND
Potassium	mg/L	4730	-	-	-	-	1000
Selenium	mg/L	1.5	-	-	-	-	ND
Silver	mg/L	ND	-	-	-	-	ND
Sodium	mg/L	11000	-	-	-	-	13800
Thallium	mg/L	ND	-	-	-	-	ND
Vanadium	mg/L	27.3	-	-	-	-	ND
Zinc	mg/L	59.2	-	-	-	-	4.6
Cyanide	mg/L	4.4	-	-	-	-	ND
<b>MISCELLANEOUS</b>							
Ethene	mg/L	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	0.0072	0.009	0.045	0.0047
CO2	mg/L	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	0.01	0.04	0.3	0.05
Sulfide	mg/L	-	-	-	-	-	-
DOC	mg C/L	-	-	2	1.9	2.6	2.6
Redox Potential	mV	-	-	303	254	228	196
Alkalinity (total)	mg CaCO3/L	-	-	346	336	332	276
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-
Chloride	mg/L	-	-	22	21.3	22.1	31.7
Conductivity (field)	µmhos/cm	-	-	760	758	720	748
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	0.01	0.01	0.02	<0.01
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-
pH (field)	std. units	-	-	6.71	6.69	6.79	6.66
Sulfate	mg/L	-	-	77.4	79.1	66.8	144
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-

MW-47  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase III RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.70
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	0.40	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	-	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0.40	0	2	0	0	0	0.70

MW-47  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase II RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>METALS</b>											
Aluminum	mg/L	17900	-	-	-	-	-	-	-	-	244
Antimony	mg/L	49.6	-	-	-	-	-	-	-	-	ND
Arsenic	mg/L	1.7	-	-	-	-	-	-	-	-	ND
Barium	mg/L	214	-	-	-	-	-	-	-	-	38.4
Beryllium	mg/L	ND	-	-	-	-	-	-	-	-	ND
Cadmium	mg/L	ND	-	-	-	-	-	-	-	-	ND
Calcium	mg/L	153000	-	-	-	-	-	-	-	-	101000
Chromium	mg/L	27.5	-	-	-	-	-	-	-	-	5.2
Cobalt	mg/L	11.2	-	-	-	-	-	-	-	-	ND
Copper	mg/L	18	-	-	-	-	-	-	-	-	6.8
Iron	mg/L	23400	-	-	-	-	-	-	-	-	527
Lead	mg/L	8.3	-	-	-	-	-	-	-	-	ND
Magnesium	mg/L	18700	-	-	-	-	-	-	-	-	11600
Manganese	mg/L	614	-	-	-	-	-	-	-	-	14.7
Mercury	mg/L	0.09	-	-	-	-	-	-	-	-	ND
Nickel	mg/L	30	-	-	-	-	-	-	-	-	ND
Potassium	mg/L	4730	-	-	-	-	-	-	-	-	940
Selenium	mg/L	1.5	-	-	-	-	-	-	-	-	5.4
Silver	mg/L	ND	-	-	-	-	-	-	-	-	3.1
Sodium	mg/L	11000	-	-	-	-	-	-	-	-	12800
Thallium	mg/L	ND	-	-	-	-	-	-	-	-	ND
Vanadium	mg/L	27.3	-	-	-	-	-	-	-	-	5.5
Zinc	mg/L	59.2	-	-	-	-	-	-	-	-	4.2
Cyanide	mg/L	4.4	-	-	-	-	-	-	-	-	ND
<b>MISCELLANEOUS</b>											
Ethene	mg/L	-	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.0021	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.03	0.07	0.3	0.04
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	1.5	1.7	1.8	1.9
Redox Potential	mV	-	-	-	-	-	-	325	295	303	318
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	276	264	288	230
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	17.5	17.4	19	18.4
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	547	604	649	526
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	0.57	0.88	0.57	0.49
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	6.72	6.75	6.86	6.75
Sulfate	mg/L	-	-	-	-	-	-	44.1	48.7	54.2	49
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-

MW-48  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase II A RI	Jan 1996 4	Mar 1996 1	June 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	-	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	0.86	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0.86	0	0

MW-48  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase IIA RI	Jan 1996 4	Mar 1996 1	June 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>METALS</b>										
Aluminum	mg/L	22700	-	-	-	-	-	-	-	113
Antimony	mg/L	ND	-	-	-	-	-	-	-	ND
Arsenic	mg/L	3.9	-	-	-	-	-	-	-	ND
Barium	mg/L	259	-	-	-	-	-	-	-	27.2
Beryllium	mg/L	1.8	-	-	-	-	-	-	-	ND
Cadmium	mg/L	ND	-	-	-	-	-	-	-	ND
Calcium	mg/L	202000	-	-	-	-	-	-	-	80000
Chromium	mg/L	36.2	-	-	-	-	-	-	-	ND
Cobalt	mg/L	27.8	-	-	-	-	-	-	-	ND
Copper	mg/L	14.4	-	-	-	-	-	-	-	ND
Iron	mg/L	347000	-	-	-	-	-	-	-	205
Lead	mg/L	22	-	-	-	-	-	-	-	ND
Magnesium	mg/L	258000	-	-	-	-	-	-	-	10000
Manganese	mg/L	1230	-	-	-	-	-	-	-	ND
Mercury	mg/L	2.3	-	-	-	-	-	-	-	ND
Nickel	mg/L	50	-	-	-	-	-	-	-	ND
Potassium	mg/L	5520	-	-	-	-	-	-	-	1120
Selenium	mg/L	10	-	-	-	-	-	-	-	ND
Silver	mg/L	ND	-	-	-	-	-	-	-	ND
Sodium	mg/L	10400	-	-	-	-	-	-	-	7680
Thallium	mg/L	ND	-	-	-	-	-	-	-	ND
Vanadium	mg/L	29.4	-	-	-	-	-	-	-	ND
Zinc	mg/L	149	-	-	-	-	-	-	-	ND
Cyanide	mg/L	ND	-	-	-	-	-	-	-	ND
<b>MISCELLANEOUS</b>										
Ethene	mg/L	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	0.02	ND	0.0066	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	ND	0.01	0.39	0.02
Sulfide	mg/L	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	2.3	2.1	3.4	2.5
Redox Potential	mV	-	-	-	-	-	261	299	265	288
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	250	254	336	198
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	12.4	12.6	11	7.6
Conductivity (field)	µmhos/cm	-	-	-	-	-	547	528	539	389
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.04	0.06	0.05	0.04
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	6.92	6.88	6.92	6.93
Sulfate	mg/L	-	-	-	-	-	37.9	32.9	24.1	31.2
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-

MW-56  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase IIA RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	0.4	0.4	-	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	ND	0.2	0.5	0.8	1	2	1	ND	1.6	0.68	
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0.2	0.5	1.2	1.4	2	1	0	1.6	0.68	

MW-56  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase IIA RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>METALS</b>											
Aluminum	mg/L	228000	-	-	-	-	-	-	-	-	794
Antimony	mg/L	191	-	-	-	-	-	-	-	-	13.2
Arsenic	mg/L	1.4	-	-	-	-	-	-	-	-	6.9
Barium	mg/L	1460	-	-	-	-	-	-	-	-	74.2
Beryllium	mg/L	11.7	-	-	-	-	-	-	-	-	0.33
Cadmium	mg/L	ND	-	-	-	-	-	-	-	-	ND
Calcium	mg/L	287000	-	-	-	-	-	-	-	-	6250
Chromium	mg/L	351	-	-	-	-	-	-	-	-	8.5
Cobalt	mg/L	201	-	-	-	-	-	-	-	-	4.4
Copper	mg/L	272	-	-	-	-	-	-	-	-	6.6
Iron	mg/L	379000	-	-	-	-	-	-	-	-	5300
Lead	mg/L	44.3	-	-	-	-	-	-	-	-	ND
Magnesium	mg/L	100000	-	-	-	-	-	-	-	-	2040
Manganese	mg/L	10600	-	-	-	-	-	-	-	-	83.1
Mercury	mg/L	0.13	-	-	-	-	-	-	-	-	ND
Nickel	mg/L	533	-	-	-	-	-	-	-	-	9.6
Potassium	mg/L	24800	-	-	-	-	-	-	-	-	2030
Selenium	mg/L	1.5	-	-	-	-	-	-	-	-	ND
Silver	mg/L	5.4	-	-	-	-	-	-	-	-	4.5
Sodium	mg/L	19500	-	-	-	-	-	-	-	-	126000
Thallium	mg/L	ND	-	-	-	-	-	-	-	-	ND
Vanadium	mg/L	317	-	-	-	-	-	-	-	-	10.3
Zinc	mg/L	1100	-	-	-	-	-	-	-	-	16.9
Cyanide	mg/L	10	-	-	-	-	-	-	-	-	ND
<b>MISCELLANEOUS</b>											
Ethene	mg/L	-	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	0.0026	0.014	0.061	-	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.01	0.04	0.43	0.13
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	1.2	1.6	2.1	1.7
Redox Potential	mV	-	-	-	-	-	-	328	302	232	305
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	276	272	316	246
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	14	19.1	32	18.4
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	633	654	1325	584
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	0.56	0.45	0.45	1.39
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	6.71	6.72	6.72	6.73
Sulfate	mg/L	-	-	-	-	-	-	53.4	73.4	107	61.3
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-



MW-59  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1994 Phase 2 RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0

MW-59  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1994 Phase 2 RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>METALS</b>										
Aluminum	mg/L	247	-	-	-	-	-	-	-	-
Antimony	mg/L	ND	-	-	-	-	-	-	-	-
Arsenic	mg/L	ND	-	-	-	-	-	-	-	-
Barium	mg/L	101	-	-	-	-	-	-	-	-
Beryllium	mg/L	ND	-	-	-	-	-	-	-	-
Cadmium	mg/L	ND	-	-	-	-	-	-	-	-
Calcium	mg/L	208000	-	-	-	-	-	-	-	-
Chromium	mg/L	0.5	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.87	-	-	-	-	-	-	-	-
Copper	mg/L	1.5	-	-	-	-	-	-	-	-
Iron	mg/L	505	-	-	-	-	-	-	-	-
Lead	mg/L	ND	-	-	-	-	-	-	-	-
Magnesium	mg/L	43300	-	-	-	-	-	-	-	-
Manganese	mg/L	79.1	-	-	-	-	-	-	-	-
Mercury	mg/L	ND	-	-	-	-	-	-	-	-
Nickel	mg/L	2.1	-	-	-	-	-	-	-	-
Potassium	mg/L	1570	-	-	-	-	-	-	-	-
Selenium	mg/L	ND	-	-	-	-	-	-	-	-
Silver	mg/L	ND	-	-	-	-	-	-	-	-
Sodium	mg/L	38300	-	-	-	-	-	-	-	-
Thallium	mg/L	ND	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.86	-	-	-	-	-	-	-	-
Zinc	mg/L	2.8	-	-	-	-	-	-	-	-
Cyanide	mg/L	ND	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>										
Ethene	mg/L	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	0.003	0.014	0.061	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	0	0.01	0.03	0.03
Sulfide	mg/L	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	4.4	5.1	5.8	4.5
Redox Potential	mV	-	-	-	-	-	346	211	270	299
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	576	585	640	516
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	36.1	30.3	25.2	23.9
Conductivity (field)	µmhos/cm	-	-	-	-	-	446	1257	1325	2000
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.17	0.27	0.01	0.02
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	6.45	6.47	6.47	6.47
Sulfate	mg/L	-	-	-	-	-	180	154	131	172.00
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-

MW-60  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1994 Phase 2 RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0

MW-60  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Mar 1994 Phase 2 RI	Jan 1996 4	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1
<b>METALS</b>										
Aluminum	mg/L	75.4	-	-	-	-	-	-	-	-
Antimony	mg/L	ND	-	-	-	-	-	-	-	-
Arsenic	mg/L	ND	-	-	-	-	-	-	-	-
Barium	mg/L	30.6	-	-	-	-	-	-	-	-
Beryllium	mg/L	ND	-	-	-	-	-	-	-	-
Cadmium	mg/L	0.12	-	-	-	-	-	-	-	-
Calcium	mg/L	97400	-	-	-	-	-	-	-	-
Chromium	mg/L	ND	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.6	-	-	-	-	-	-	-	-
Copper	mg/L	1.2	-	-	-	-	-	-	-	-
Iron	mg/L	120	-	-	-	-	-	-	-	-
Lead	mg/L	ND	-	-	-	-	-	-	-	-
Magnesium	mg/L	13400	-	-	-	-	-	-	-	-
Manganese	mg/L	17.7	-	-	-	-	-	-	-	-
Mercury	mg/L	ND	-	-	-	-	-	-	-	-
Nickel	mg/L	1.1	-	-	-	-	-	-	-	-
Potassium	mg/L	490	-	-	-	-	-	-	-	-
Selenium	mg/L	ND	-	-	-	-	-	-	-	-
Silver	mg/L	ND	-	-	-	-	-	-	-	-
Sodium	mg/L	8180	-	-	-	-	-	-	-	-
Thallium	mg/L	ND	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.81	-	-	-	-	-	-	-	-
Zinc	mg/L	1.8	-	-	-	-	-	-	-	-
Cyanide	mg/L	ND	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>										
Ethene	mg/L	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	0.0031	0.0012	0.0012	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	0	0.02	0.24	0.01
Sulfide	mg/L	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	1.9	2.5	3.2	1.8
Redox Potential	mV	-	-	-	-	-	317	253	239	285
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	310	278	356	220
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	18.5	23.3	22.6	19.8
Conductivity (field)	µmhos/cm	-	-	-	-	-	653	602	762	519
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.01	0.02	0.01	0.02
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	6.81	6.71	6.64	4.37
Sulfate	mg/L	-	-	-	-	-	40.3	29.7	37.3	29.00
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-

## APPENDIX C

### Laboratory Analytical Packages with QA/QC Data

1. ITS Sample Delivery Group No. 68675
  - A. Indicator Parameters
  - B. Metals
  - C. Volatile Organics (524.2)
2. ITS Sample Delivery Group No. 68755
  - A. Indicator Parameters
  - B. Metals
  - C. Volatile Organics
3. Evergreen Analytical
  - A. Methane, Ethane, Ethene



**1. Sample Delivery Group No. 68675**







# Intertek Testing Services

## Environmental Laboratories

### SAMPLE DATA SUMMARY PACKAGE

CONTRACT: 98011  
CASE NO: 98011  
SDG NO: 68675

Internet Testing Services  
Professional Services



INTERNET TESTING SERVICES



# Intertek Testing Services Environmental Laboratories

April 28, 1998

Mr. Mike Duchesneau  
Parsons Engineering Science  
ATTN: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Re: Laboratory Project No. 98011  
Project Name: ASH Quarterly 98  
Case No.: 98011; SDG 68675

Dear Mr. Duchesneau:

Enclosed are the analytical results of samples received intact by ITS Environmental Laboratories on March 20, 27, 28, and 31, 1998. Laboratory numbers have been assigned and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 03/20/98 ETR No: 68675			
354614	AL130	03/18/98	Water
354615	AL131	03/18/98	Water
354616	AL132	03/18/98	Water
Received: 03/27/98 ETR No: 68725			
354878	AL153	03/24/98	Water
354879	AL154	03/24/98	Water
354880	AL142	03/24/98	Water
354881	AL137	03/25/98	Water
354882	AL155	03/25/98	Water
354883	AL148	03/25/98	Water
354884	AL162	03/24/98	Water
355026	AL153	03/24/98	Filtrate
355027	AL154	03/24/98	Filtrate
355028	AL142	03/24/98	Filtrate
355029	AL155	03/25/98	Filtrate
355030	AL148	03/25/98	Filtrate

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 03/28/98 ETR No: 68741			
354923	AL163	02/24/98	Water
354924	AL143	03/26/98	Water
354925	AL151	03/26/98	Water
354926	AL152	03/26/98	Water
354927	AL159	03/26/98	Water
354928	AL141	03/26/98	Water
354928MS	AL141MS	03/26/98	Water
354928MD	AL141MSD	03/26/98	Water
354929	AL158	03/26/98	Water
354930	AL157	03/27/98	Water
354931	AL138	03/27/98	Water
354932	AL140	03/27/98	Water
354933	AL150	03/27/98	Water
354934	AL144	03/27/98	Water
354935	MBS		Liquid
355020	AL151	03/26/98	Filtrate
355021	AL141	03/26/98	Filtrate
355022	AL138	03/27/98	Filtrate
355023	AL140	03/27/98	Filtrate

Received: 03/31/98 ETR No: 68754

354978	AL164	02/24/98	Water
354979	AL146	03/28/98	Water
354980	AL146F	03/28/98	Filtrate
354981	AL149	03/28/98	Water
354982	AL149F	03/28/98	Filtrate
355024	AL134	03/28/98	Water
355025	AL134F	03/28/98	Filtrate

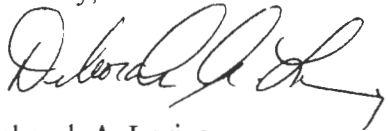
The volatile organic analysis of the continuing calibration standard from 4/6/98 at 1023 did not contain 1,4-dioxane. The laboratory suspects that this compound had degraded in the standard solution. Although 1,4-dioxane was present in the initial calibration, it can not be calibrated in the window affected by the continuing calibration standard. This compound has been marked with a "UP" qualifier in the affected samples to indicate that the response is unknown. Ion traces for 1,4-dioxane have been included in the raw data section for each affected sample in this case submittal.

The volatile organic analysis of sample AL134 exhibited surrogate recovery of bromofluorobenzene slightly below the limits of 86-115% at 85%.

Mr. Mike Duchesneau  
April 28, 1998  
Page 3

If there are any questions regarding this submittal, please contact Chris A. Ouellette at (802) 655-1203.

Sincerely,

A handwritten signature in black ink, appearing to read "Deborah A. Loring". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Deborah A. Loring  
Laboratory Manger

DAL/cga  
Enclosure

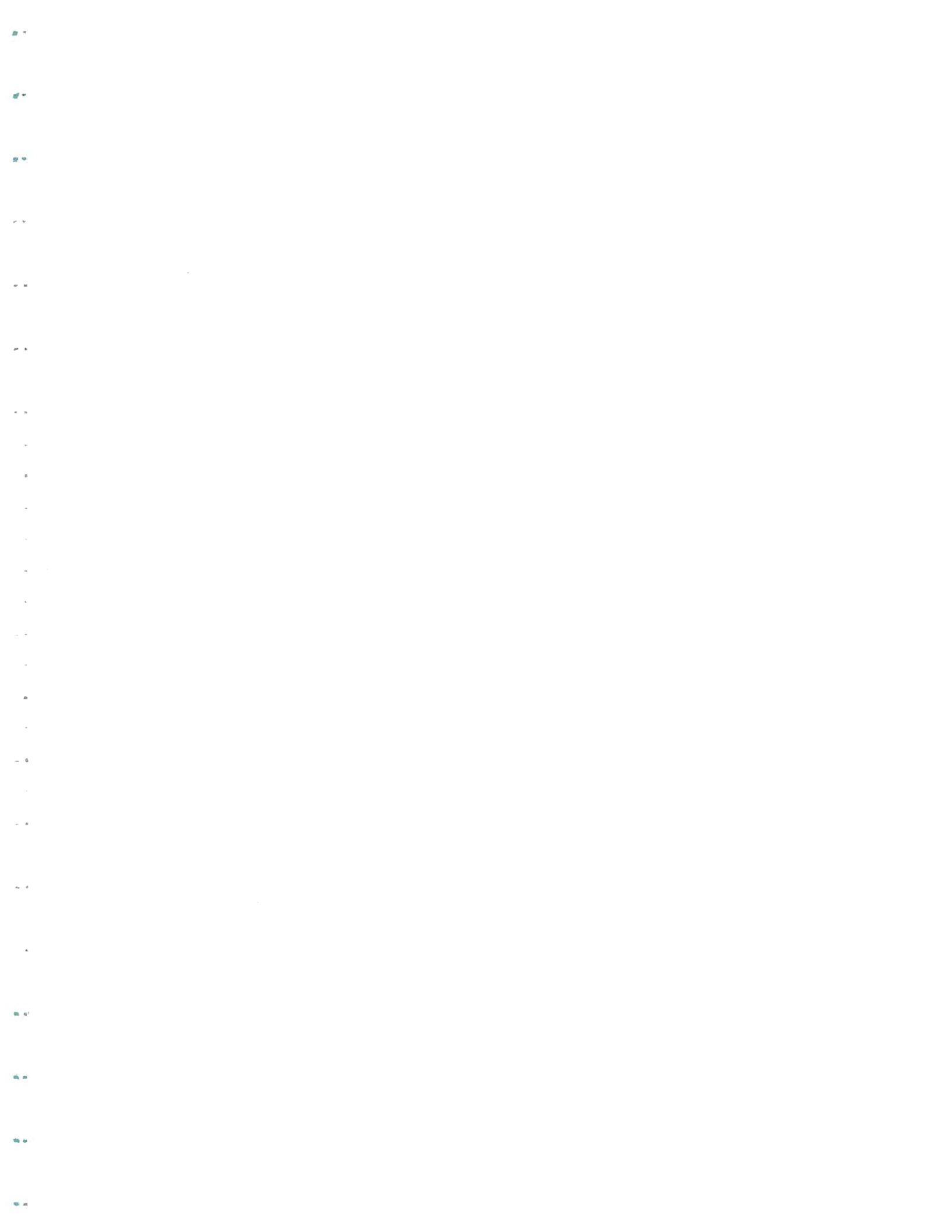
002A

(1975) 150

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11/10/75







**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Date : 04/28/98  
ETR Number : 68725  
Project No.: 98011  
No. Samples: 12  
Arrived : 03/27/98  
P.O. Number: 73076930000

Attention : Mike Duchesneau

Page 1

Case:98011 SDG:68675 ASH Quarterly

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
354878	AL153:03/24/98 @1135(Water)	
	310.1 Alkalinity (as CaCO3)	516
	300.0 Chloride	23.9
	300.0 Sulfate	172
	353.2 Nitrate/Nitrite Nitrogen	0.73
354879	AL154:03/24/98 @1415(Water)	
	310.1 Alkalinity (as CaCO3)	220
	300.0 Chloride	19.8
	300.0 Sulfate	29.0
	353.2 Nitrate/Nitrite Nitrogen	0.02
354880	AL142:03/24/98 @1540(Water)	
	310.1 Alkalinity (as CaCO3)	246
	300.0 Chloride	7.9
	300.0 Sulfate	69.9
	353.2 Nitrate/Nitrite Nitrogen	0.06
354882	AL155:03/25/98 @0915(Water)	
	310.1 Alkalinity (as CaCO3)	300
	300.0 Chloride	23.7
	300.0 Sulfate	144
	353.2 Nitrate/Nitrite Nitrogen	0.17
354883	AL148:03/25/98 @1330(Water)	
	310.1 Alkalinity (as CaCO3)	230
	300.0 Chloride	18.4
	300.0 Sulfate	49.0
	353.2 Nitrate/Nitrite Nitrogen	0.49

< Cont. Next Page >

**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Date : 04/28/98  
ETR Number : 68725  
Project No.: 98011  
No. Samples: 12  
Arrived : 03/27/98  
P.O. Number: 73076930000

Attention : Mike Duchesneau

Page 2

Case:98011 SDG:68675 ASH Quarterly

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
355026 AL153:03/24/98 9060	@1135(Filtrate) Total Organic Carbon	4.5
355027 AL154:03/24/98 9060	@1415(Filtrate) Total Organic Carbon	1.8
355028 AL142:03/24/98 9060	@1540(Filtrate) Total Organic Carbon	1.8
355029 AL155:03/25/98 9060	@0915(Filtrate) Total Organic Carbon	2.7
355030 AL148:03/25/98 9060	@1330(Filtrate) Total Organic Carbon	1.9

< Last Page >

Submitted By :

Aquatec Inc.



**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Date : 04/28/98  
ETR Number : 68741  
Project No.: 98011  
No. Samples: 19  
Arrived : 03/28/98  
P.O. Number: 73076930000

Attention : Mike Duchesneau

Page 1

Case:98011 SDG:68675 ASH Quarterly

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
354925	AL151:03/26/98 @1350 (Water)	
310.1	Alkalinity (as CaCO3)	246
300.0	Chloride	18.4
300.0	Sulfate	61.3
353.2	Nitrate/Nitrite Nitrogen	1.39
354928	AL141:03/26/98 @1650 (Water)	
310.1	Alkalinity (as CaCO3)	260
300.0	Chloride	18.2
300.0	Sulfate	56.3
353.2	Nitrate/Nitrite Nitrogen	1.91
354931	AL138:03/27/98 @1205 (Water)	
310.1	Alkalinity (as CaCO3)	208
300.0	Chloride	13.5
300.0	Sulfate	24.3
353.2	Nitrate/Nitrite Nitrogen	0.25
354932	AL140:03/27/98 @1320 (Water)	
310.1	Alkalinity (as CaCO3)	240
300.0	Chloride	16.9
300.0	Sulfate	45.7
353.2	Nitrate/Nitrite Nitrogen	0.11
355020	AL151:03/26/98 @1350 (Filtrate)	
9060	Total Organic Carbon	1.7
355021	AL141:03/26/98 @1650 (Filtrate)	
9060	Total Organic Carbon	1.5

< Cont. Next Page >



**Intertek Testing Services**  
**Environmental Laboratories**

55 South Park Drive  
 Colchester, VT 05446

**Analytical Report**

Parsons Engineering Science  
 Attn: Accounts Payable  
 30 Dan Road  
 Canton, MA 02021

Date : 04/28/98  
 ETR Number : 68741  
 Project No.: 98011  
 No. Samples: 19  
 Arrived : 03/28/98  
 P.O. Number: 73076930000

Attention : Mike Duchesneau

Page 2

Case:98011 SDG:68675 ASH Quarterly

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
355022 AL138:03/27/98 9060	@1205(Filtrate) Total Organic Carbon	3.0
355023 AL140:03/27/98 9060	@1320(Filtrate) Total Organic Carbon	1.9

< Last Page >

Submitted By :

Aquatec Inc.

**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Date : 04/28/98  
ETR Number : 68754  
Project No.: 98011  
No. Samples: 7  
Arrived : 03/31/98  
P.O. Number: 73076930000

Attention : Mike Duchesneau

Page 1

Case:98011 SDG:68675 ASH Quarterly

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
354979	AL146:03/28/98 @1445(Water)	
	310.1 Alkalinity (as CaCO3)	264
	300.0 Chloride	11.3
	300.0 Sulfate	39.4
	353.2 Nitrate/Nitrite Nitrogen	0.03
354980	AL146F:03/28/98 @1445(Filtrate)	
	9060 Total Organic Carbon	1.7
354981	AL149:03/28/98 @1350(Water)	
	310.1 Alkalinity (as CaCO3)	198
	300.0 Chloride	7.6
	300.0 Sulfate	31.2
	353.2 Nitrate/Nitrite Nitrogen	0.04
354982	AL149F:03/28/98 @1350(Filtrate)	
	9060 Total Organic Carbon	2.5
355024	AL134:03/28/98 @1010(Water)	
	310.1 Alkalinity (as CaCO3)	258
	300.0 Chloride	18.9
	300.0 Sulfate	70.2
	353.2 Nitrate/Nitrite Nitrogen	2.18
355025	AL134F:03/28/98 @1010(Filtrate)	
	9060 Total Organic Carbon	2.8

## Quality Control Summary

ETR No: 68725  
 Project No: 98011  
 SDG No: 68675  
 Units: mg/L

Parameter	Date Analyzed	Method Preparation Blank	Laboratory Control Sample		
			Reported Value	True Value	Percent Recovery
Alkalinity (as CaCO <sub>3</sub> )	03/31/98	< 1	130	126	103.2
Chloride by IC	03/27/98	< 0.1	5.02	5.00	100.4
Chloride by IC	04/03/98	< 0.1	5.02	5.00	100.4
Nitrate/Nitrite-Nitrogen	03/31/98	< 0.01	7.48	7.32	102.2
Sulfate by IC	04/03/98	< 0.1	10.6	10.0	106.0
Total Organic Carbon	04/03/98	< 0.5	68.0	68.0	100.0
Total Organic Carbon	04/06/98	< 0.5	68.1	68.0	100.1

Reviewed By:	<u>JPD</u>
Date:	<u>4/27/98</u>

## Quality Control Summary

ETR No: 68741  
 Project No: 98011  
 SDG No: 68675  
 Units: mg/L

Parameter	Date Analyzed	Method Preparation Blank	Laboratory Control Sample		
			Reported Value	True Value	Percent Recovery
Alkalinity (as CaCO <sub>3</sub> )	03/31/98	< 1	130	126	103.2
Chloride by IC	04/03/98	< 0.1	5.02	5.00	100.4
Chloride by IC	04/06/98	< 0.1	5.18	5.00	103.6
Nitrate/Nitrite-Nitrogen	03/31/98	< 0.01	7.48	7.32	102.2
Sulfate by IC	04/03/98	< 0.1	10.6	10.00	106.0
Sulfate by IC	04/06/98	< 0.1	10.6	10.00	106.0
Total Organic Carbon	04/03/98	< 0.5	68.0	68.0	100.0

Reviewed By:	<u>JPD</u>
Date:	<u>4/27/98</u>

## Quality Control Summary

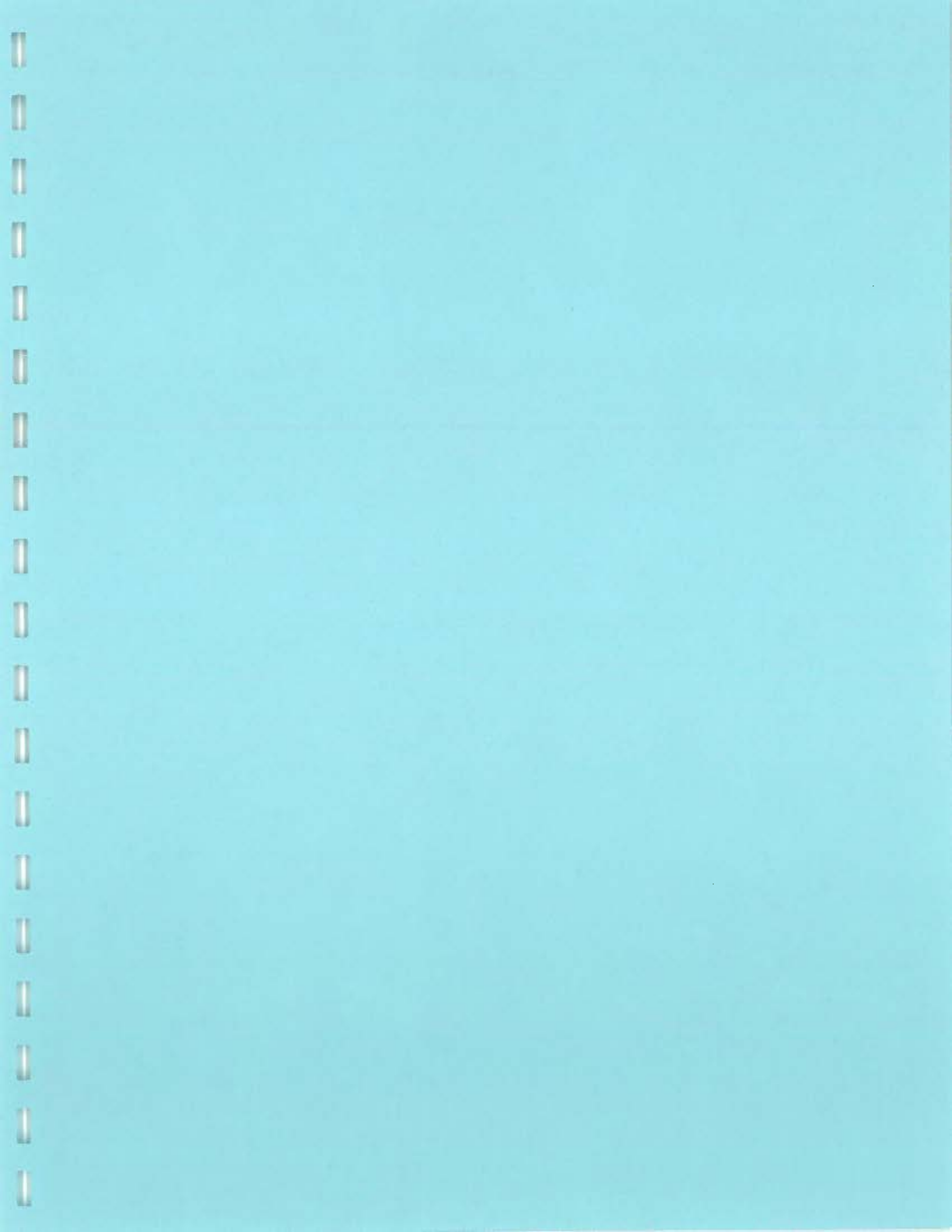
ETR No: 68754  
 Project No: 98011  
 SDG No: 68675  
 Units: mg/L

Parameter	Date Analyzed	Method Preparation Blank	Laboratory Control Sample		
			Reported Value	True Value	Percent Recovery
Alkalinity (as CaCO <sub>3</sub> )	03/31/98	< 1	130	126	103.2
Chloride by IC	04/06/98	< 0.1	5.18	5.00	103.6
Nitrate/Nitrite-Nitrogen	04/06/98	< 0.01	6.9	7.32	94.3
Sulfate by IC	04/06/98	< 0.1	10.6	10.00	106.0
Total Organic Carbon	04/03/98	< 0.5	68.0	68.0	100.0

Reviewed By: JPD  
 Date: 4/27/98









U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL137

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Matrix (soil/water): WATER Lab Sample ID: 354881

Level (low/med): LOW\_ Date Received: 03/27/98

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	452			P
7440-36-0	Antimony	11.6	B		P
7440-38-2	Arsenic	6.7	B		P
7440-39-3	Barium	80.7	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.70	U		P
7440-70-2	Calcium	110000			P
7440-47-3	Chromium	9.9	B		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	9.2	B		P
7439-89-6	Iron	786			P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	42500			P
7439-96-5	Manganese	5.8	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	U		P
7440-09-7	Potassium	1960	B		P
7782-49-2	Selenium	4.1	B		P
7440-22-4	Silver	5.6	B		P
7440-23-5	Sodium	28200			P
7440-28-0	Thallium	7.5	B		P
7440-62-2	Vanadium	8.1	B		P
7440-66-6	Zinc	4.8	B		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL143

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Matrix (soil/water): WATER Lab Sample ID: 354924

Level (low/med): LOW\_\_\_ Date Received: 03/28/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	698	—	—	P
7440-36-0	Antimony	17.9	B	—	P
7440-38-2	Arsenic	6.6	B	—	P
7440-39-3	Barium	59.1	B	—	P
7440-41-7	Beryllium	0.30	U	—	P
7440-43-9	Cadmium	0.70	U	—	P
7440-70-2	Calcium	2540	B	—	P
7440-47-3	Chromium	5.3	B	—	P
7440-48-4	Cobalt	3.7	U	—	P
7440-50-8	Copper	6.5	B	—	P
7439-89-6	Iron	799	—	—	P
7439-92-1	Lead	2.6	U	—	P
7439-95-4	Magnesium	670	B	—	P
7439-96-5	Manganese	14.5	B	—	P
7439-97-6	Mercury	0.10	U	—	CV
7440-02-0	Nickel	4.8	B	—	P
7440-09-7	Potassium	1550	B	—	P
7782-49-2	Selenium	3.1	U	—	P
7440-22-4	Silver	6.0	B	—	P
7440-23-5	Sodium	137000	—	—	P
7440-28-0	Thallium	6.1	B	—	P
7440-62-2	Vanadium	8.6	B	—	P
7440-66-6	Zinc	5.9	B	—	P
	Cyanide	5.0	U	—	AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL144

Lab Name: ITS\_ENVIRONMENTAL Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675

Matrix (soil/water): WATER Lab Sample ID: 354934

Level (low/med): LOW Date Received: 03/28/98

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	47.7	B		P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	28.5	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.70	U		P
7440-70-2	Calcium	98500			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	3.4	U		P
7439-89-6	Iron	115			P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	9310			P
7439-96-5	Manganese	2.6	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	U		P
7440-09-7	Potassium	393	B		P
7782-49-2	Selenium	3.4	B		P
7440-22-4	Silver	2.6	U		P
7440-23-5	Sodium	9430			P
7440-28-0	Thallium	5.7	U		P
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	2.6	B		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL146

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Matrix (soil/water): WATER Lab Sample ID: 354979

Level (low/med): LOW\_\_\_ Date Received: 03/31/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	81.2	B		P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	42.9	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.70	U		P
7440-70-2	Calcium	104000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	3.4	U		P
7439-89-6	Iron	166			P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	12300			P
7439-96-5	Manganese	0.80	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	U		P
7440-09-7	Potassium	721	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.6	U		P
7440-23-5	Sodium	10400			P
7440-28-0	Thallium	5.7	U		P
7440-62-2	Vanadium	5.2	U		P
7440-65-6	Zinc	6.1	B		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL148

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Matrix (soil/water): WATER Lab Sample ID: 354883

Level (low/med): LOW\_\_\_ Date Received: 03/27/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	244	—	—	P
7440-36-0	Antimony	10.7	U	—	P
7440-38-2	Arsenic	5.0	U	—	P
7440-39-3	Barium	38.4	B	—	P
7440-41-7	Beryllium	0.30	U	—	P
7440-43-9	Cadmium	0.70	U	—	P
7440-70-2	Calcium	101000	—	—	P
7440-47-3	Chromium	5.2	B	—	P
7440-48-4	Cobalt	3.7	U	—	P
7440-50-8	Copper	6.8	B	—	P
7439-89-6	Iron	527	—	—	P
7439-92-1	Lead	2.6	U	—	P
7439-95-4	Magnesium	11600	—	—	P
7439-96-5	Manganese	14.7	B	—	P
7439-97-6	Mercury	0.10	U	—	CV
7440-02-0	Nickel	3.5	U	—	P
7440-09-7	Potassium	940	B	—	P
7782-49-2	Selenium	5.4	—	—	P
7440-22-4	Silver	3.1	B	—	P
7440-23-5	Sodium	12800	—	—	P
7440-28-0	Thallium	5.7	U	—	P
7440-62-2	Vanadium	5.5	B	—	P
7440-66-6	Zinc	4.2	B	—	P
	Cyanide	5.0	U	—	AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL149

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Matrix (soil/water): WATER Lab Sample ID: 354981

Level (low/med): LOW\_\_\_ Date Received: 03/31/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	113	B		P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	27.2	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.70	U		P
7440-70-2	Calcium	80000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	3.4	U		P
7439-89-6	Iron	205			P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	10000			P
7439-96-5	Manganese	0.80	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	U		P
7440-09-7	Potassium	1120	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.6	U		P
7440-23-5	Sodium	7680			P
7440-28-0	Thallium	5.7	U		P
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	1.9	U		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL150

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Matrix (soil/water): WATER Lab Sample ID: 354933

Level (low/med): LOW\_ Date Received: 03/28/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	101	B		P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	50.8	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.70	U		P
7440-70-2	Calcium	131000			P
7440-47-3	Chromium	3.1	B		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	4.4	B		P
7439-89-6	Iron	248			P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	17000			P
7439-96-5	Manganese	0.80	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.7	B		P
7440-09-7	Potassium	1110	B		P
7782-49-2	Selenium	3.1	U		P
7440-22-4	Silver	2.6	U		P
7440-23-5	Sodium	22300			P
7440-28-0	Thallium	5.7	U		P
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	2.1	B		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL151

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Matrix (soil/water): WATER Lab Sample ID: 354925

Level (low/med): LOW\_\_ Date Received: 03/28/98

% Solids: \_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	794	—	—	P
7440-36-0	Antimony	10.7	U	—	P
7440-38-2	Arsenic	5.0	U	—	P
7440-39-3	Barium	38.9	B	—	P
7440-41-7	Beryllium	0.30	U	—	P
7440-43-9	Cadmium	0.70	U	—	P
7440-70-2	Calcium	102000	—	—	P
7440-47-3	Chromium	6.5	B	—	P
7440-48-4	Cobalt	3.7	U	—	P
7440-50-8	Copper	6.1	B	—	P
7439-89-6	Iron	1100	—	—	P
7439-92-1	Lead	2.6	U	—	P
7439-95-4	Magnesium	12300	—	—	P
7439-96-5	Manganese	14.3	B	—	P
7439-97-6	Mercury	0.10	U	—	CV
7440-02-0	Nickel	3.5	U	—	P
7440-09-7	Potassium	1050	B	—	P
7782-49-2	Selenium	3.1	U	—	P
7440-22-4	Silver	2.6	U	—	P
7440-23-5	Sodium	12900	—	—	P
7440-28-0	Thallium	5.7	U	—	P
7440-62-2	Vanadium	6.8	B	—	P
7440-66-6	Zinc	6.8	B	—	P
	Cyanide	5.0	U	—	AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL152

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Matrix (soil/water): WATER Lab Sample ID: 354926

Level (low/med): LOW\_ Date Received: 03/28/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3800	—	—	P_
7440-36-0	Antimony	13.2	B	—	P_
7440-38-2	Arsenic	6.9	B	—	P_
7440-39-3	Barium	74.2	B	—	P_
7440-41-7	Beryllium	0.33	B	—	P_
7440-43-9	Cadmium	0.70	U	—	P_
7440-70-2	Calcium	6250	—	—	P_
7440-47-3	Chromium	8.5	B	—	P_
7440-48-4	Cobalt	4.4	B	—	P_
7440-50-8	Copper	6.6	B	—	P_
7439-89-6	Iron	5300	—	—	P_
7439-92-1	Lead	2.6	U	—	P_
7439-95-4	Magnesium	2040	B	—	P_
7439-96-5	Manganese	83.1	—	—	P_
7439-97-6	Mercury	0.10	U	—	CV
7440-02-0	Nickel	9.6	B	—	P_
7440-09-7	Potassium	2030	B	—	P_
7782-49-2	Selenium	3.1	U	—	P_
7440-22-4	Silver	4.5	B	—	P_
7440-23-5	Sodium	126000	—	—	P_
7440-28-0	Thallium	5.7	U	—	P_
7440-62-2	Vanadium	10.3	B	—	P_
7440-66-6	Zinc	16.9	B	—	P_
	Cyanide	5.0	U	—	AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL157

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Matrix (soil/water): WATER Lab Sample ID: 354930

Level (low/med): LOW\_\_\_ Date Received: 03/28/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13400	—	—	P
7440-36-0	Antimony	13.6	B	—	P
7440-38-2	Arsenic	6.6	B	—	P
7440-39-3	Barium	176	B	—	P
7440-41-7	Beryllium	0.78	B	—	P
7440-43-9	Cadmium	0.70	U	—	P
7440-70-2	Calcium	12600	—	—	P
7440-47-3	Chromium	13.0	—	—	P
7440-48-4	Cobalt	5.2	B	—	P
7440-50-8	Copper	10.3	B	—	P
7439-89-6	Iron	9880	—	—	P
7439-92-1	Lead	6.1	—	—	P
7439-95-4	Magnesium	5450	—	—	P
7439-96-5	Manganese	130	—	—	P
7439-97-6	Mercury	0.10	U	—	CV
7440-02-0	Nickel	13.3	B	—	P
7440-09-7	Potassium	4010	B	—	P
7782-49-2	Selenium	3.1	U	—	P
7440-22-4	Silver	3.8	B	—	P
7440-23-5	Sodium	101000	—	—	P
7440-28-0	Thallium	5.7	U	—	P
7440-62-2	Vanadium	16.1	B	—	P
7440-66-6	Zinc	29.0	—	—	P
	Cyanide	5.0	U	—	AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After: YELLOW\_\_\_ Clarity After: CLEAR\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Initial Calibration Source: VENTURES\_\_\_\_\_

Continuing Calibration Source: SPEX\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	26000.0	26150.00	100.6	30200.0	30680.00	101.6	30980.00	102.6	P
Antimony	250.0	257.50	103.0	300.0	291.90	97.3	304.80	101.6	P
Arsenic	250.0	248.10	99.2	100.0	99.77	99.8	104.60	104.6	P
Barium	500.0	488.70	97.7	200.0	193.40	96.7	195.10	97.6	P
Beryllium	500.0	499.60	99.9	100.0	98.02	98.0	99.12	99.1	P
Cadmium	500.0	474.40	94.9	100.0	92.27	92.3	93.15	93.2	P
Calcium	25000.0	25590.00	102.4	30200.0	30660.00	101.5	31160.00	103.2	P
Chromium	500.0	499.30	99.9	200.0	200.80	100.4	205.20	102.6	P
Cobalt	500.0	490.40	98.1	200.0	192.50	96.2	196.80	98.4	P
Copper	500.0	497.60	99.5	200.0	194.30	97.2	197.40	98.7	P
Iron	25500.0	26050.00	102.2	30200.0	30650.00	101.5	31070.00	102.9	P
Lead	1000.0	1012.00	101.2	400.0	394.00	98.5	400.70	100.2	P
Magnesium	25000.0	25340.00	101.4	30200.0	30810.00	102.0	31370.00	103.9	P
Manganese	500.0	490.00	98.0	200.0	193.20	96.6	196.00	98.0	P
Mercury	1.8	1.84	102.2	5.0	5.13	102.6	5.18	103.6	CV
Nickel	500.0	495.00	99.0	200.0	195.80	97.9	200.30	100.2	P
Potassium	25000.0	26400.00	105.6	30200.0	31310.00	103.7	31480.00	104.2	P
Selenium	250.0	240.40	96.2	100.0	96.67	96.7	98.09	98.1	P
Silver	500.0	490.70	98.1	100.0	97.08	97.1	100.60	100.6	P
Sodium	25000.0	25620.00	102.5	30200.0	30080.00	99.6	31140.00	103.1	P
Thallium	250.0	238.80	95.5	100.0	96.82	96.8	102.00	102.0	P
Vanadium	500.0	501.00	100.2	200.0	197.40	98.7	203.50	101.8	P
Zinc	500.0	485.40	97.1	200.0	192.20	96.1	195.90	98.0	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Initial Calibration Source: VENTURES\_\_\_\_\_

Continuing Calibration Source: SPEX\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum				30200.0	30930.00	102.4	30900.00	102.3	P
Antimony				300.0	295.30	98.4	293.60	97.9	P
Arsenic				100.0	100.70	100.7	100.30	100.3	P
Barium				200.0	193.70	96.8	193.20	96.6	P
Beryllium				100.0	99.07	99.1	98.70	98.7	P
Cadmium				100.0	92.36	92.4	92.07	92.1	P
Calcium				30200.0	31090.00	102.9	30960.00	102.5	P
Chromium				200.0	203.00	101.5	202.70	101.4	P
Cobalt				200.0	194.30	97.2	194.20	97.1	P
Copper				200.0	194.00	97.0	193.60	96.8	P
Iron				30200.0	30970.00	102.5	30890.00	102.3	P
Lead				400.0	399.10	99.8	400.10	100.0	P
Magnesium				30200.0	31250.00	103.5	31240.00	103.4	P
Manganese				200.0	195.20	97.6	194.50	97.2	P
Mercury				5.0	5.16	103.2	5.16	103.2	CV
Nickel				200.0	196.70	98.4	196.30	98.2	P
Potassium				30200.0	31120.00	103.0	30700.00	101.7	P
Selenium				100.0	99.13	99.1	101.60	101.6	P
Silver				100.0	96.55	96.6	96.63	96.6	P
Sodium				30200.0	30100.00	99.7	29790.00	98.6	P
Thallium				100.0	96.67	96.7	95.53	95.5	P
Vanadium				200.0	199.30	99.6	199.20	99.6	P
Zinc				200.0	195.10	97.6	195.00	97.5	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Initial Calibration Source: VENTURES\_\_\_\_\_

Continuing Calibration Source: SPEX\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium	25000.0	22910.00	91.6	30200.0	28120.00	93.1	29050.00	96.2	P
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115



U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Initial Calibration Source: FISHER\_\_\_\_\_

Continuing Calibration Source: FISHER\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide	120.0	120.50	100.4	150.0	148.00	98.7	148.00	98.7	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Initial Calibration Source: FISHER\_\_\_\_\_

Continuing Calibration Source: FISHER\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide				150.0	148.00	98.7	148.00	98.7	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Initial Calibration Source: FISHER\_\_\_\_\_

Continuing Calibration Source: FISHER\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide	120.0	118.50	98.8	150.0	150.00	100.0	155.00	103.3	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Initial Calibration Source: FISHER\_\_\_\_\_

Continuing Calibration Source: FISHER\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide				150.0	159.00	106.0			AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL \_\_\_\_\_ Contract: 98011 \_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Initial Calibration Source: FISHER \_\_\_\_\_

Continuing Calibration Source: FISHER \_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide	120.0	125.50	104.6	150.0	136.00	90.7	136.00	90.7	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Initial Calibration Source: FISHER\_\_\_\_\_

Continuing Calibration Source: FISHER\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide	120.0	131.00	109.2	150.0	147.00	98.0	148.00	98.7	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Initial Calibration Source: FISHER\_\_\_\_\_

Continuing Calibration Source: FISHER\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide				150.0	151.00	100.7	153.00	102.0	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT

Case No.: 98011\_

SAS No.: \_\_\_\_\_

SDG No.: 68675\_

AA CRDL Standard Source: VENTURES\_\_\_\_\_

ICP CRDL Standard Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum				400.0	523.20	130.8	603.30	150.8
Antimony				120.0	125.00	104.2	124.80	104.0
Arsenic				20.0	23.96	119.8	23.33	116.6
Barium				400.0	382.30	95.6	381.00	95.2
Beryllium				10.0	9.95	99.5	10.04	100.4
Cadmium				10.0	9.02	90.2	9.11	91.1
Calcium				10000.0	10200.00	102.0	10390.00	103.9
Chromium				20.0	23.46	117.3	23.19	116.0
Cobalt				100.0	97.83	97.8	98.08	98.1
Copper				50.0	52.17	104.3	51.49	103.0
Iron				200.0	395.00	197.5	418.40	209.2
Lead				6.0	7.42	123.7	6.88	114.7
Magnesium				10000.0	10410.00	104.1	10630.00	106.3
Manganese				30.0	29.10	97.0	29.28	97.6
Mercury	0.2	0.15	75.0					
Nickel				80.0	78.29	97.9	78.38	98.0
Potassium				10000.0	10710.00	107.1	10450.00	104.5
Selenium				10.0	10.58	105.8	13.81	138.1
Silver				20.0	22.65	113.2	21.54	107.7
Sodium				10000.0	10720.00	107.2	10230.00	102.3
Thallium				20.0	23.81	119.0	22.12	110.6
Vanadium				100.0	102.60	102.6	102.30	102.3
Zinc				40.0	39.81	99.5	40.34	100.8



U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT

Case No.: 98011\_

SAS No.: \_\_\_\_\_

SDG No.: 68675\_

AA CRDL Standard Source: VENTURES\_\_\_\_\_

ICP CRDL Standard Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium				10000.0	9424.00	94.2	9522.00	95.2
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

3  
BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L\_

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	C		1	C	2	C	3	C		C	
Aluminum	27.7	U	44.3	B	44.6	B	41.5	B	27.700	U	P
Antimony	10.7	U	10.7	U	11.4	B	10.7	U	10.700	U	P
Arsenic	5.0	U	5.0	U	5.9	B	5.0	U	5.000	U	P
Barium	7.6	U	7.6	U	7.6	U	7.6	U	7.600	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Cadmium	0.7	U	0.7	U	0.7	U	0.7	U	0.700	U	P
Calcium	190.0	U	190.0	U	190.0	U	190.0	U	190.000	U	P
Chromium	2.0	U	2.0	U	2.2	B	2.0	U	2.000	U	P
Cobalt	3.7	U	3.7	U	3.7	U	3.7	U	3.700	U	P
Copper	3.4	U	3.4	U	3.6	B	3.4	U	3.400	U	P
Iron	70.8	U	70.8	U	70.8	U	70.8	U	70.800	U	P
Lead	2.6	U	2.6	U	2.6	U	2.6	U	2.600	U	P
Magnesium	197.0	U	197.0	U	197.0	U	197.0	U	197.000	U	P
Manganese	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	3.5	U	3.5	U	3.5	U	3.5	U	3.500	U	P
Potassium	222.0	U	222.0	U	222.0	U	222.0	U	222.000	U	P
Selenium	3.1	U	3.1	U	3.1	U	3.1	U	3.100	U	P
Silver	2.6	U	3.1	B	3.6	B	2.6	U	2.600	U	P
Sodium	838.0	U	902.1	B	1039.0	B	838.0	U	838.000	U	P
Thallium	5.7	U	5.7	U	5.7	U	5.7	U	5.700	U	P
Vanadium	5.2	U	5.2	U	5.2	U	5.2	U	5.200	U	P
Zinc	1.9	U	1.9	U	1.9	U	1.9	U	2.546	B	P
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	5.000	U	AS

U.S. EPA - CLP

3  
BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L\_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum			44.9	B						P	
Antimony			10.7	U						P	
Arsenic			5.0	U						P	
Barium			7.6	U						P	
Beryllium			0.3	U						P	
Cadmium			0.7	U						P	
Calcium			190.0	U						P	
Chromium			2.0	U						P	
Cobalt			3.7	U						P	
Copper			3.4	U						P	
Iron			70.8	U						P	
Lead			2.6	U						P	
Magnesium			197.0	U						P	
Manganese			0.8	U						P	
Mercury			0.1	U				0.100	U	CV	
Nickel			3.5	U						P	
Potassium			222.0	U						P	
Selenium			3.1	U						P	
Silver			2.6	U						P	
Sodium			838.0	U						P	
Thallium			5.7	U						P	
Vanadium			5.2	U						P	
Zinc			1.9	U						P	
Cyanide			10.0	U				5.000	U	MS	

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BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L\_

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium	838.0	U	838.0	U	838.0	U					P
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	5.000	U	AS

U.S. EPA - CLP

3  
BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L\_

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide	10.0	U	10.0	U	10.0	U			5.000	U	AS

U.S. EPA - CLP

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BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Preparation Blank Matrix (soil/water): \_\_\_\_\_

Preparation Blank Concentration Units (ug/L or mg/kg): \_\_\_\_\_

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	C		1	C	2	C	3	C	C		
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U			AS

U.S. EPA - CLP

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BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Preparation Blank Matrix (soil/water): \_\_\_\_\_

Preparation Blank Concentration Units (ug/L or mg/kg): \_\_\_\_\_

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide			10.0	U							AS

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP6 TJA 61E ICS Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	505420	493700	496800.0	98.3	499400	500200.0	99.0
Antimony	0	623	-19	645.2	103.6	-20	641.6	103.0
Arsenic	0	108	-5	114.3	105.8	-5	112.3	104.0
Barium	0	512	3	503.1	98.3	3	501.4	97.9
Beryllium	0	503	1	494.5	98.3	1	498.6	99.1
Cadmium	0	950	-6	931.3	98.0	-5	929.3	97.8
Calcium	500000	480060	465600	468200.0	97.5	472200	472500.0	98.4
Chromium	0	508	11	496.2	97.7	11	499.0	98.2
Cobalt	0	484	-2	472.1	97.5	-2	476.0	98.3
Copper	0	511	-22	499.8	97.8	-22	497.7	97.4
Iron	200000	202940	196100	198200.0	97.7	198400	199900.0	98.5
Lead	0	57	-1	66.8	117.2	1	67.9	119.1
Magnesium	500000	540400	521700	527300.0	97.6	532500	535300.0	99.1
Manganese	0	495	3	483.9	97.8	3	487.6	98.5
Mercury								
Nickel	0	1005	27	985.7	98.1	27	989.1	98.4
Potassium	0	0	-314	-279.6		-377	-395.7	
Selenium	0	73	5	75.0	102.7	7	77.1	105.6
Silver	0	220	-9	215.3	97.9	-10	214.5	97.5
Sodium	0	0	1759	2421.0		1664	1839.0	
Thallium	0	106	2	109.1	102.9	0	107.2	101.1
Vanadium	0	515	2	501.6	97.4	2	503.8	97.8
Zinc	0	952	2	927.7	97.4	2	939.5	98.7



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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No: \_\_\_\_\_ SDC No.: 68675\_

ICP ID Number: ICP5 TJA 61E ICS Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium	0	0	208	-49.7		430	65.0	
Thallium								
Vanadium								
Zinc								

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LABORATORY CONTROL SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT

Case No.: 98011\_\_

SAS No.: \_\_\_\_\_

SDG No.: 68675\_

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: VENTURES\_\_\_\_\_

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	51000.0	51960.00	101.9					
Antimony	2000.0	1999.00	100.0					
Arsenic	1050.0	1045.00	99.5					
Barium	500.0	495.00	99.0					
Beryllium	500.0	505.20	101.0					
Cadmium	525.0	486.20	92.6					
Calcium	50000.0	51460.00	102.9					
Chromium	500.0	507.90	101.6					
Cobalt	500.0	494.00	98.8					
Copper	500.0	501.20	100.2					
Iron	50500.0	51700.00	102.4					
Lead	1015.0	1022.00	100.7					
Magnesium	50000.0	51260.00	102.5					
Manganese	500.0	495.10	99.0					
Mercury	1.0	1.02	102.0					
Nickel	500.0	499.40	99.9					
Potassium	50000.0	50670.00	101.3					
Selenium	525.0	524.60	99.9					
Silver	500.0	497.30	99.5					
Sodium	50000.0	51080.00	102.2					
Thallium	550.0	505.00	91.8					
Vanadium	500.0	508.00	101.6					
Zinc	500.0	486.00	97.2					
Cyanide								

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LABORATORY CONTROL SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: VENTURES\_\_\_\_\_

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury	1.0	1.00	100.0					
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								



U.S. EPA - CLP

9  
ICP SERIAL DILUTION

EPA SAMPLE NO.

AL137L

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Matrix (soil/water): WATER Level (low/med): LOW\_

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Aluminum	451.50		498.00	B	10.3		P
Antimony	11.65	B	53.50	U	100.0		P
Arsenic	6.66	B	25.00	U	100.0		P
Barium	80.69	B	76.40	B	5.3		P
Beryllium	0.30	U	1.50	U			P
Cadmium	0.70	U	3.50	U			P
Calcium	110400.00		103400.00		6.3		P
Chromium	9.86	B	18.07	B	83.3		P
Cobalt	3.70	U	18.50	U			P
Copper	9.17	E	22.50	B	145.4		P
Iron	786.10		989.50		25.9		P
Lead	2.60	U	13.00	U			P
Magnesium	42460.00		39450.00		7.1		P
Manganese	5.80	E	6.38	B	10.0		P
Mercury							NR
Nickel	3.50	U	17.50	U			P
Potassium	1961.00	B	2096.00	B	6.9		P
Selenium	4.11	B	15.50	U	100.0		P
Silver	5.63	B	17.34	B	208.0		P
Sodium	28190.00		30060.00		6.6		P
Thallium	7.51	B	22.50	U	100.0		P
Vanadium	8.06	E	26.00	U	100.0		P
Zinc	4.76	B	13.00	B	173.1		P

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Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP6\_TJA\_61E Date: 04/16/98

Flame AA ID Number : \_\_\_\_\_

Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	27.7	P
Antimony	206.84		60	10.7	P
Arsenic	193.70		10	5.0	P
Barium	493.41		200	7.6	P
Beryllium	313.04		5	0.3	P
Cadmium	228.80		5	0.7	P
Calcium	317.93		5000	190.0	P
Chromium	267.72		10	2.0	P
Cobalt	228.62		50	3.7	P
Copper	324.75		25	3.4	P
Iron	259.94		100	70.8	P
Lead	220.35		3	2.6	P
Magnesium	279.08		5000	197.0	P
Manganese	257.61		15	0.8	P
Mercury			0.2		NR
Nickel	231.60		40	3.5	P
Potassium	766.49		5000	222.0	P
Selenium	196.03		5	3.1	P
Silver	328.07		10	2.6	P
Sodium	589.00		5000	838.0	P
Thallium	190.86		10	5.7	P
Vanadium	292.40		50	5.2	P
Zinc	213.86		20	1.9	P

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP5\_TJA\_61E Date: 04/16/98

Flame AA ID Number : \_\_\_\_\_

Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium	330.23		5000	521.0	P
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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U.S. EPA - CLP

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Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: \_\_\_\_\_ Date: 01/16/98

Flame AA ID Number : CV1\_PS200II\_

Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: \_\_\_\_\_ Date: 01/16/98

Flame AA ID Number : PS1214\_\_\_\_\_

Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP6 TJA 61E Date: 04/01/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	CD_
Aluminum	308.22	0.0000000	0.0000000	0.0002200	0.0000140	0.0000000
Antimony	206.84	0.0009800	0.0000000	0.0001100	0.0000000	0.0000000
Arsenic	193.70	0.0003450	0.0000200	0.0000400	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000190	0.0000080	0.0000900	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000380	0.0000330	0.0000260
Cobalt	228.62	0.0000000	0.0000000	0.0000470	0.0000000	0.0000840
Copper	324.75	0.0000000	0.0000000	0.0000240	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0010900	0.0000000
Lead	220.35	0.0004000	0.0000000	-0.0000080	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000230	0.0000000	0.0000000	0.0004620
Mercury						
Nickel	231.60	-0.0000400	0.0000000	0.0000000	0.0000000	0.0000870
Potassium	766.49	0.0001350	0.0000000	0.0000790	0.0000000	0.0000000
Selenium	196.03	-0.0000080	0.0000000	-0.0000050	-0.0000600	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Sodium	589.00	0.0000000	0.0018800	0.0000600	0.0000000	0.0000000
Thallium	190.86	0.0004000	0.0000000	0.0000450	0.0000090	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000080	0.0000300	0.0000000
Zinc	213.86	0.0000800	0.0000000	0.0000540	0.0000090	0.0000290

Comments:

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U.S. EPA - CLP

11B  
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP6 TJA 61E Date: 04/01/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CO_	CR_	CU_	MN_	NA_
Aluminum	308.22	0.0023100	0.0002270	0.0000000	0.0004060	0.0000000
Antimony	206.84	0.0000710	0.0070400	0.0000000	0.0000000	0.0000000
Arsenic	193.70	0.0002500	0.0003050	0.0000000	0.0000390	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000050	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000140	0.0000000	0.0000000	0.0000000	0.0000820
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000120	0.0000000	0.0000000	0.0001760	0.0000000
Cobalt	228.62	0.0000000	0.0005150	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000310	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0819300	0.0069800	0.0000000	0.0014270	0.0000000
Lead	220.35	0.0001080	0.0000000	0.0000000	0.0000750	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0042900	0.0000000
Manganese	257.61	0.0000000	0.0000410	0.0000270	0.0000000	0.0000000
Mercury						
Nickel	231.50	0.0040740	0.0000870	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0001840	0.0000360	0.0000000	0.0003000	0.0000000
Silver	328.07	0.0000000	0.0000200	0.0000000	0.0001380	0.0000000
Sodium	589.00	0.0075090	0.0152200	0.0000000	0.0025300	0.0000000
Thallium	190.86	0.0001430	0.0002830	0.0000000	0.0007690	0.0000000
Vanadium	292.40	0.0000340	0.0000780	0.0000000	0.0002320	0.0000000
Zinc	213.86	0.0000240	0.0005000	0.0000000	0.0000000	0.0000000

Comments:

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11B  
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP6 TJA 61E Date: 04/01/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		NI_	TI_	V_	ZN_	_____
Aluminum_	308.22	0.0005070	0.0031950	0.0223300	0.0000000	
Antimony_	206.84	0.0000000	0.0001540	0.0000760	0.0000000	
Arsenic_	193.70	0.0000120	0.0001120	0.0001130	0.0000000	
Barium_	493.41	0.0000000	0.0000000	0.0000480	0.0000000	
Beryllium_	313.04	0.0000000	0.0000180	0.0001590	0.0000000	
Cadmium_	228.80	0.0001440	0.0000590	0.0000000	0.0000000	
Calcium_	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium_	267.72	0.0000000	0.0000660	0.0004790	0.0000000	
Cobalt_	228.62	0.0003230	0.0018940	0.0000280	0.0000000	
Copper_	324.75	0.0000000	0.0007410	0.0002950	0.0000000	
Iron_	259.94	0.0008990	0.0032200	0.0127800	0.0000000	
Lead_	220.35	0.0004730	0.0000940	-0.0000500	0.0000000	
Magnesium_	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese_	257.61	0.0000000	0.0000000	0.0000000	0.0000000	
Mercury_						
Nickel_	231.60	0.0000000	0.0000000	0.0000000	0.0000000	
Potassium_	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium_	196.03	0.0000000	0.0000000	0.0001660	0.0000000	
Silver_	328.07	0.0000000	0.0002210	0.0002340	0.0000000	
Sodium_	589.00	0.0063400	0.0994800	0.0538900	0.1140000	
Thallium_	190.86	0.0000290	0.0016900	0.0010440	0.0000000	
Vanadium_	292.40	0.0000000	0.0001080	0.0000000	0.0004160	
Zinc_	213.86	0.0000000	0.0000210	0.0000000	0.0000000	

Comments :

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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	CD_
Aluminum	237.31	0.0000000	0.0000000	-0.0007060	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Arsenic	189.04	0.0000030	0.0000000	-0.0000190	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000040	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000020	0.0000000	0.0000720	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0002050
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0002010
Copper	324.75	0.0000000	0.0000000	-0.0001110	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead						
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	294.92	0.0000000	0.0000000	0.0006600	0.0000170	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.07	0.0000000	0.0000000	-0.0000020	0.0000010	0.0000000
Sodium	330.23	0.0000000	0.0000000	-0.0001390	0.0000000	0.0000000
Thallium						
Tanadium	290.40	0.0000000	0.0000000	0.0000230	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B  
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CO_	CR_	MN_	NI_	TI_
Aluminum	237.31	0.0010260	-0.0001500	0.0004560	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0106760	0.0000000	-0.0010930	0.0009800
Arsenic	189.04	0.0000000	0.0000130	-0.0000260	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0006000
Cadmium	226.50	0.0000190	0.0000000	0.0000000	-0.0001420	0.0001100
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000760	0.0000000	0.0001550	0.0021800
Copper	324.75	-0.0006200	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0834400	0.0000000	-0.0010430	-0.0005400	0.0000000
Lead						
Magnesium	279.08	0.0000000	0.0000000	0.0083200	0.0000000	0.0000000
Manganese	294.92	0.0000000	-0.0001100	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0005300	0.0000000	-0.0000770	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.07	0.0000000	0.0000450	0.0001060	0.0000000	0.0004400
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	-0.0014900	-0.0000760	0.0000000	0.0005480
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		V__	ZN_	___	___	___
Aluminum	237.31	-0.0041100	0.0000000			
Antimony	206.84	-0.0107300	0.0002410			
Arsenic	189.04	-0.0010590	0.0000000			
Barium	493.41	0.0000420	0.0000000			
Beryllium	313.04	0.0015700	0.0000000			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.72	0.0000000	0.0000000			
Cobalt	228.61	0.0000000	0.0000000			
Copper	324.75	-0.0001320	0.0000000			
Iron	271.44	0.0076000	0.0000000			
Lead						
Magnesium	279.08	0.0000000	0.0000000			
Manganese	294.92	0.0048700	0.0000000			
Mercury						
Nickel	231.60	-0.0001520	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium						
Silver	328.07	0.0004460	0.0000000			
Sodium	330.23	0.0000000	0.9394000			
Thallium						
Vanadium	292.40	0.0000000	0.0000000			
Zinc	213.85	-0.0054500	0.0000000			

Comments:

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12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP6 TJA 61E Date: 04/16/98

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	5000.0	P
Barium	10.00	1000000.0	P
Beryllium	10.00	5000.0	P
Cadmium	10.00	5000.0	P
Calcium	10.00	50000.0	P
Chromium	10.00	100000.0	P
Cobalt	10.00	100000.0	P
Copper	10.00	100000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	100000.0	P
Magnesium	10.00	500000.0	P
Manganese	10.00	5000.0	P
Mercury			NR
Nickel	10.00	100000.0	P
Potassium	10.00	100000.0	P
Selenium	10.00	5000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	100000.0	P
Thallium	10.00	5000.0	P
Vanadium	10.00	100000.0	P
Zinc	10.00	3000.0	P

Comments:

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U.S. EPA - CLP

12  
ICP LINEAR RANGES (QUARTERLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68675\_

ICP ID Number: ICP5 TJA 61E Date: 04/16/98

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	5000.0	P
Barium	10.00	100000.0	P
Beryllium	10.00	25000.0	P
Cadmium	10.00	25000.0	P
Calcium	10.00	600000.0	P
Chromium	10.00	100000.0	P
Cobalt	10.00	100000.0	P
Copper	10.00	100000.0	P
Iron	10.00	1000000.0	P
Lead			NR
Magnesium	10.00		P
Manganese	10.00	50000.0	P
Mercury			NR
Nickel	10.00	50000.0	P
Potassium	10.00	100000.0	P
Selenium			NR
Silver	10.00	2000.0	P
Sodium	10.00	100000.0	P
Thallium			NR
Vanadium	10.00	100000.0	P
Zinc	10.00	3000.0	P

Comments:

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ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Instrument ID Number: ICP6 TJA 61E\_

Method: P\_

Start Date: 04/24/98

End Date: 04/24/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
SO	1.00	0817		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S	1.00	0820		X						X					X	X				X		X					
S	1.00	0824			X	X								X					X				X				
S	1.00	0827				X	X	X		X	X	X			X			X		X			X	X			
ICV	1.00	0832		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB	1.00	0836		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA	1.00	0840		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1.00	0845		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI	1.00	0849		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1.00	0853		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1.00	0857		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PBW	1.00	0902		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSW	1.00	0906		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	0910																									
ZZZZZZ	1.00	0914																									
ZZZZZZ	1.00	0918																									
ZZZZZZ	1.00	0922																									
ZZZZZZ	1.00	0926																									
ZZZZZZ	1.00	0931																									
ZZZZZZ	5.00	0935																									
ZZZZZZ	1.00	0939																									
CCV	1.00	0943		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1.00	0947		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	0951																									
ZZZZZZ	1.00	0956																									
AL137	1.00	1000		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL137L	5.00	1004		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL148	1.00	1008		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL143	1.00	1012		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL151	1.00	1016		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL152	1.00	1020		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL157	1.00	1025		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X











U.S. EPA - CLP

14  
ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_\_

SAS No.: \_\_\_\_\_ SDG No.:68675\_

Instrument ID Number: PS1214\_\_\_\_\_

Method: AS

Start Date: 03/31/98

End Date: 03/31/98

EPA Sample No.	D/F	Time	% R	Analytes																								
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N	
S0	1.00	2028		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
S10	1.00	2030		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
S50	1.00	2032		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
S100	1.00	2034		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
S200	1.00	2036		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
S300	1.00	2039		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ICV	1.00	2041		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ICB	1.00	2043		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
CCV	1.00	2045		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
CCB	1.00	2047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ZZZZZZ	1.00	2049		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
PBW	1.00	2051		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ZZZZZZ	1.00	2054		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2056		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2058		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2104		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2106		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2108		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	2110		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
CCB	1.00	2112		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ZZZZZZ	1.00	2114		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2116		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2118		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2121		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2123		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2125		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2127		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2129		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2131		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2133		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



U.S. EPA - CLP

14  
ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Instrument ID Number: PS1214\_\_\_\_\_

Method: AS

Start Date: 04/02/98

End Date: 04/02/98

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
S0	1.00	1049		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
S10	1.00	1051		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
S50	1.00	1053		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
S100	1.00	1055		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
S200	1.00	1057		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
S300	1.00	1100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
ICV	1.00	1102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
ICB	1.00	1104		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
CCV	1.00	1106		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
CCB	1.00	1108		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
ZZZZZZ	1.00	1110		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
PBW	1.00	1113		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
ZZZZZZ	1.00	1115		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1117		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1119		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1121		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1123		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
AL143	1.00	1125		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
AL151	1.00	1127		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
AL152	1.00	1129		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
CCV	1.00	1131		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
CCB	1.00	1133		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
AL157	1.00	1135		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
AL150	1.00	1138		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
AL144	1.00	1140		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
ZZZZZZ	1.00	1142		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1144		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1146		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1148		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1150		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1152		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1154		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		





U.S. EPA - CLP

14  
ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.: 68675\_

Instrument ID Number: PS1214\_\_\_\_\_

Method: AS

Start Date: 04/02/98

End Date: 04/02/98

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
S0	1.00	2218		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
S10	1.00	2220		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
S50	1.00	2222		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
S100	1.00	2224		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
S200	1.00	2226		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
S300	1.00	2228		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
ICV	1.00	2230		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
ICE	1.00	2232		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
CCV	1.00	2234		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
CCB	1.00	2236		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
ZZZZZZ	1.00	2238		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
PBW	1.00	2241		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
ZZZZZZ	1.00	2243		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	2245		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	2247		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	2249		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	2251		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
AL149	1.00	2253		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
ZZZZZZ	1.00	2255		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	2257		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CCV	1.00	2259		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		
CCB	1.00	2302		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X		

U.S. EPA - CLP

14  
ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.:68675\_

Instrument ID Number: PS1214\_\_\_\_\_

Method: AS

Start Date: 04/02/98

End Date: 04/02/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
S0	1.00	1330																									X
S10	1.00	1332																									X
S50	1.00	1334																									X
S100	1.00	1337																									X
S200	1.00	1339																									X
S300	1.00	1341																									X
ICV	1.00	1343																									X
ICB	1.00	1345																									X
CCV	1.00	1348																									X
CCB	1.00	1350																									X
ZZZZZZ	1.00	1352																									
PBW	1.00	1354																									X
ZZZZZZ	1.00	1356																									
ZZZZZZ	1.00	1358																									
ZZZZZZ	1.00	1400																									
ZZZZZZ	1.00	1402																									
ZZZZZZ	1.00	1404																									
ZZZZZZ	1.00	1406																									
ZZZZZZ	1.00	1409																									
ZZZZZZ	1.00	1413																									
CCV	1.00	1415																									X
CCB	1.00	1418																									X
ZZZZZZ	1.00	1420																									
ZZZZZZ	1.00	1422																									
ZZZZZZ	1.00	1424																									
ZZZZZZ	1.00	1426																									
ZZZZZZ	1.00	1428																									
ZZZZZZ	1.00	1430																									
ZZZZZZ	1.00	1432																									
ZZZZZZ	1.00	1434																									
ZZZZZZ	1.00	1436																									
ZZZZZZ	1.00	1438																									

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_\_

SAS No.: \_\_\_\_\_ SDG No.: 68675\_\_

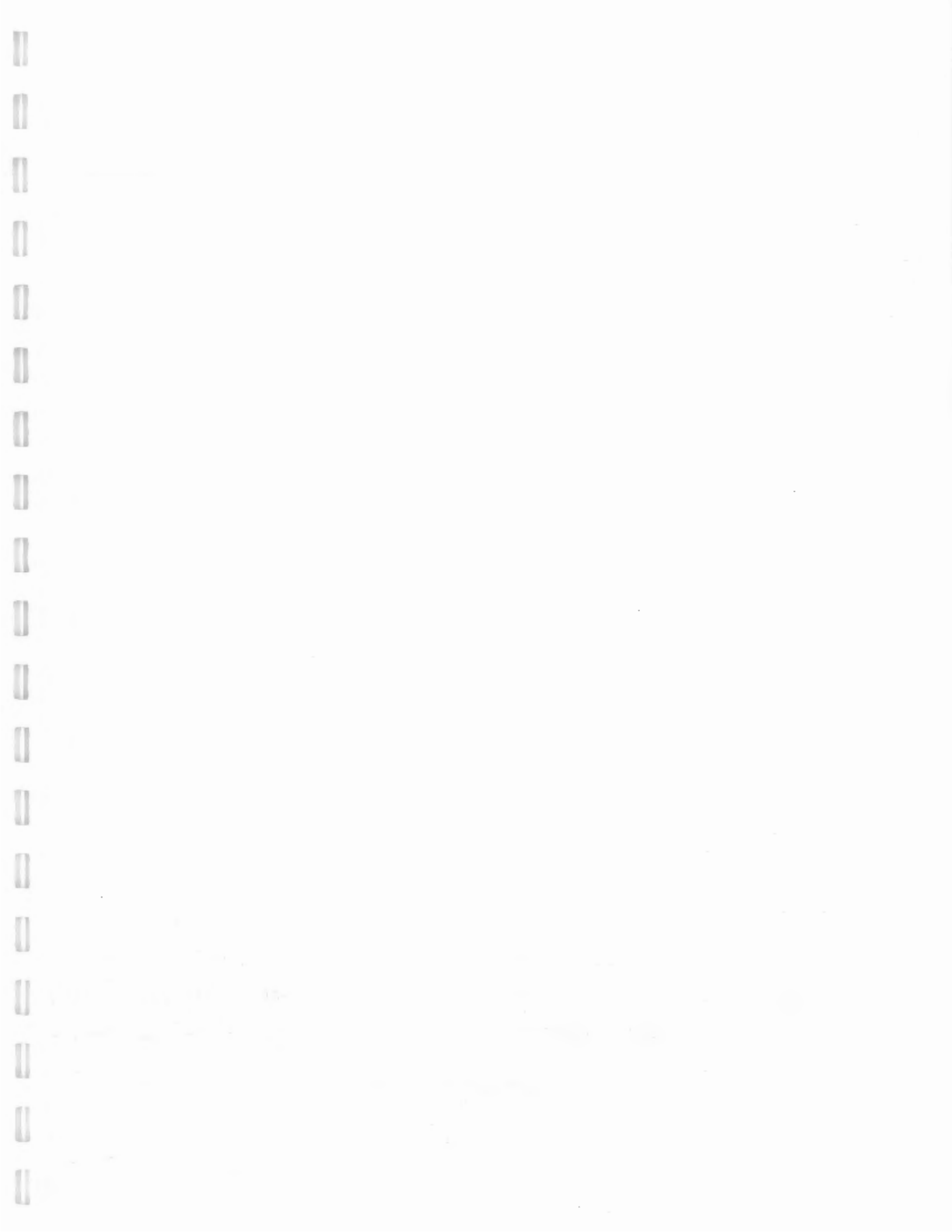
Instrument ID Number: PS1214\_\_\_\_\_

Method: AS

Start Date: 04/02/98

End Date: 04/02/98

EPA Sample No.	D/F	Time	% R	Analytes																								
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N	
CCV	1.00	1440		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
CCB	1.00	1442		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ZZZZZZ	1.00	1444		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1446		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AL146	1.00	1448		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ZZZZZZ	1.00	1450		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZZ	1.00	1452		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	1455		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
CCB	1.00	1457		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
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FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL149

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675

Matrix: (soil/water) WATER                      Lab Sample ID: 354981

Sample wt/vol:              5.000 (g/mL) ML                      Lab File ID: L354981I2V

Level: (low/med) LOW                      Date Received: 03/31/98

% Moisture: not dec. \_\_\_\_\_                      Date Analyzed: 04/06/98

GC Column: DB-624      ID: 0.53 (mm)·                      Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)                      Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.70	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL149

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68675

Matrix: (soil/water) WATER

Lab Sample ID: 354981

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L354981I2V

Level: (low/med) LOW

Date Received: 03/31/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 04/06/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

142-28-9-----	1,3-Dichloropropane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
123-91-1-----	1,4-Dioxane	50	U
109-99-9-----	Tetrahydrofuran	50	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.30	J
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL130

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354614  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354614V  
 Level: (low/med) LOW Date Received: 03/20/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/26/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL130

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354614  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354614V  
 Level: (low/med) LOW Date Received: 03/20/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/26/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

142-28-9-----	1,3-Dichloropropane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
123-91-1-----	1,4-Dioxane	50	U
109-99-9-----	Tetrahydrofuran	50	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL131

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354615  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354615V  
 Level: (low/med) LOW Date Received: 03/20/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/26/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL131

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354615  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354615V  
 Level: (low/med) LOW Date Received: 03/20/98  
 % Moisture: not dec. Date Analyzed: 03/26/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL132

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354616  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354616V  
 Level: (low/med) LOW Date Received: 03/20/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/26/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	Q
75-71-8	Dichlorodifluoromethane	0.50 U
74-87-3	Chloromethane	0.50 U
75-01-4	Vinyl Chloride	0.50 U
74-83-9	Bromomethane	0.50 U
75-00-3	Chloroethane	0.50 U
75-69-4	Trichlorofluoromethane	0.50 U
67-64-1	Acetone	5.0 U
75-35-4	1,1-Dichloroethene	0.50 U
156-60-5	trans-1,2-Dichloroethene	0.50 U
75-15-0	Carbon Disulfide	0.50 U
75-09-2	Methylene Chloride	0.50 U
1634-04-4	Methyl-t-Butyl Ether	0.50 U
75-34-3	1,1-Dichloroethane	0.50 U
156-59-2	cis-1,2-Dichloroethene	0.50 U
78-93-3	2-Butanone	5.0 U
590-20-7	2,2-Dichloropropane	0.50 U
67-66-3	Chloroform	0.50 U
74-97-5	Bromochloromethane	0.50 U
71-55-6	1,1,1-Trichloroethane	0.50 U
563-58-6	1,1-Dichloropropene	0.50 U
56-23-5	Carbon Tetrachloride	0.50 U
107-06-2	1,2-Dichloroethane	0.50 U
71-43-2	Benzene	0.50 U
79-01-6	Trichloroethene	0.50 U
78-87-5	1,2-Dichloropropane	0.50 U
75-27-4	Bromodichloromethane	0.50 U
74-95-3	Dibromomethane	0.50 U
108-10-1	4-Methyl-2-Pentanone	5.0 U
10061-01-5	cis-1,3-Dichloropropene	0.50 U
108-88-3	Toluene	0.50 U
10061-02-6	trans-1,3-Dichloropropene	0.50 U
79-00-5	1,1,2-Trichloroethane	0.50 U
591-78-6	2-Hexanone	5.0 U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL132

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68675

Matrix: (soil/water) WATER

Lab Sample ID: 354616

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L354616V

Level: (low/med) LOW

Date Received: 03/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 03/26/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

142-28-9-----	1,3-Dichloropropane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
123-91-1-----	1,4-Dioxane	50	U
109-99-9-----	Tetrahydrofuran	50	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL134

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 355024  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L355024V  
 Level: (low/med) LOW Date Received: 03/31/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL134

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 355024  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L355024V  
 Level: (low/med) LOW Date Received: 03/31/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	UJ
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL140

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675

Matrix: (soil/water) WATER                      Lab Sample ID: 354932

Sample wt/vol:              5.000 (g/mL) ML                      Lab File ID:      L354932V

Level:      (low/med)      LOW                      Date Received: 03/28/98

% Moisture: not dec. \_\_\_\_\_                      Date Analyzed: 04/01/98

GC Column: DB-624      ID: 0.53 (mm)                      Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)                      Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8-----	Dichlorodifluoromethane	0.50	U
74-87-3-----	Chloromethane	0.50	U
75-01-4-----	Vinyl Chloride	0.50	U
74-83-9-----	Bromomethane	0.50	U
75-00-3-----	Chloroethane	0.50	U
75-69-4-----	Trichlorofluoromethane	0.50	U
67-64-1-----	Acetone	5.0	U
75-35-4-----	1,1-Dichloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-15-0-----	Carbon Disulfide	0.50	U
75-09-2-----	Methylene Chloride	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	0.50	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	5.0	U
590-20-7-----	2,2-Dichloropropane	0.50	U
67-66-3-----	Chloroform	0.50	U
74-97-5-----	Bromochloromethane	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
71-43-2-----	Benzene	0.50	U
79-01-6-----	Trichloroethene	0.30	J
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	5.0	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	U
108-88-3-----	Toluene	0.50	U
10061-02-6-----	trans-1,3-Dichloropropene	0.50	U
79-00-5-----	1,1,2-Trichloroethane	0.50	U
591-78-6-----	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL140

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354932  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354932V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL158
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Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675

Matrix: (soil/water) WATER                      Lab Sample ID: 354929

Sample wt/vol:              5.000 (g/mL) ML                      Lab File ID:      L354929V

Level:      (low/med)      LOW                      Date Received: 03/28/98

% Moisture: not dec.      \_\_\_\_\_                      Date Analyzed: 04/01/98

GC Column: DB-624      ID: 0.53 (mm)                      Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)                      Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8-----	Dichlorodifluoromethane	0.50	U
74-87-3-----	Chloromethane	0.50	U
75-01-4-----	Vinyl Chloride	0.50	U
74-83-9-----	Bromomethane	0.50	U
75-00-3-----	Chloroethane	0.50	U
75-69-4-----	Trichlorofluoromethane	0.50	U
67-64-1-----	Acetone	5.0	U
75-35-4-----	1,1-Dichloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-15-0-----	Carbon Disulfide	0.50	U
75-09-2-----	Methylene Chloride	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	0.50	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	5.0	U
590-20-7-----	2,2-Dichloropropane	0.50	U
67-66-3-----	Chloroform	0.50	U
74-97-5-----	Bromochloromethane	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
71-43-2-----	Benzene	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	5.0	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	U
108-88-3-----	Toluene	0.50	U
10061-02-6-----	trans-1,3-Dichloropropene	0.50	U
79-00-5-----	1,1,2-Trichloroethane	0.50	U
591-78-6-----	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL158

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354929  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354929V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL141

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354928  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354928V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL141

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354928  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354928V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL159

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354927  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354927V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL159

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354927  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354927V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL142

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354880  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354880V  
 Level: (low/med) LOW Date Received: 03/27/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL142

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354880  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354880V  
 Level: (low/med) LOW Date Received: 03/27/98  
 % Moisture: not dec. Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL146

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354979  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354979I2V  
 Level: (low/med) LOW Date Received: 03/31/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.79	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL146

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354979  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354979I2V  
 Level: (low/med) LOW Date Received: 03/31/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

142-28-9-----	1,3-Dichloropropane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
123-91-1-----	1,4-Dioxane	50	UJ
109-99-9-----	Tetrahydrofuran	50	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.35	J
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL148

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354883  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354883V  
 Level: (low/med) LOW Date Received: 03/27/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL148

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354883  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354883V  
 Level: (low/med) LOW Date Received: 03/27/98  
 % Moisture: not dec. Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL149

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354981  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354981I2V  
 Level: (low/med) LOW Date Received: 03/31/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.70	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL149

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354981  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354981I2V  
 Level: (low/med) LOW Date Received: 03/31/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	UJ
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.30	J
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL151

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354925  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354925V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.68	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL151

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354925  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354925V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL153

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354878  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354878V  
 Level: (low/med) LOW Date Received: 03/27/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/31/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL153

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354878  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354878V  
 Level: (low/med) LOW Date Received: 03/27/98  
 % Moisture: not dec. Date Analyzed: 03/31/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL154
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Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 68675

Matrix: (soil/water) WATER                      Lab Sample ID: 354879

Sample wt/vol:            5.000 (g/mL) ML                      Lab File ID: L354879V

Level:    (low/med)    LOW                      Date Received: 03/27/98

% Moisture: not dec. \_\_\_\_\_                      Date Analyzed: 04/01/98

GC Column: DB-624    ID: 0.53 (mm)                      Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)                      Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL154

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354879  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354879V  
 Level: (low/med) LOW Date Received: 03/27/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL155

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354882  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354882V  
 Level: (low/med) LOW Date Received: 03/27/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	17	
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO. ✓

AL155

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68675

Matrix: (soil/water) WATER

Lab Sample ID: 354882

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: L354882V

Level: (low/med) LOW

Date Received: 03/27/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 04/01/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

142-28-9-----	1,3-Dichloropropane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
123-91-1-----	1,4-Dioxane	50	U
109-99-9-----	Tetrahydrofuran	12	J
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL138

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354931  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354931V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO. ✓

AL138

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354931  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354931V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL162

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354884  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354884V  
 Level: (low/med) LOW Date Received: 03/27/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL162

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354884  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354884V  
 Level: (low/med) LOW Date Received: 03/27/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL163

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354923  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354923V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL163

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354923  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354923V  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL164

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354978  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354978I2V  
 Level: (low/med) LOW Date Received: 03/31/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.3	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL164

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354978  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354978I2V  
 Level: (low/med) LOW Date Received: 03/31/98  
 % Moisture: not dec. Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	Q
142-28-9	1,3-Dichloropropane	0.50 U
127-18-4	Tetrachloroethene	0.50 U
123-91-1	1,4-Dioxane	50 UJ
109-99-9	Tetrahydrofuran	50 U
124-48-1	Dibromochloromethane	0.50 U
106-93-4	1,2-Dibromoethane	0.50 U
108-90-7	Chlorobenzene	0.50 U
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U
100-41-4	Ethylbenzene	0.50 U
1330-20-7	Xylene (total)	0.50 U
100-42-5	Styrene	0.50 U
75-25-2	Bromoform	0.50 U
98-82-8	Isopropylbenzene	0.50 U
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U
96-18-4	1,2,3-Trichloropropane	0.50 U
108-86-1	Bromobenzene	0.50 U
103-65-1	n-Propylbenzene	0.50 U
95-49-8	2-Chlorotoluene	0.50 U
108-67-8	1,3,5-Trimethylbenzene	0.50 U
106-43-4	4-Chlorotoluene	0.50 U
98-06-6	tert-Butylbenzene	0.50 U
95-63-6	1,2,4-Trimethylbenzene	0.50 U
135-98-8	sec-Butylbenzene	0.50 U
99-87-6	p-Isopropyltoluene	0.50 U
541-73-1	1,3-Dichlorobenzene	0.50 U
106-46-7	1,4-Dichlorobenzene	0.50 U
104-51-8	n-Butylbenzene	0.50 U
95-50-1	1,2-Dichlorobenzene	0.50 U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50 U
120-82-1	1,2,4-Trichlorobenzene	0.50 U
87-68-3	Hexachlorobutadiene	0.50 U
91-20-3	Naphthalene	0.50 U
87-61-6	1,2,3-Trichlorobenzene	0.50 U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ITSDAL SAMPLE NO.

VBLKF1

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68675

Matrix: (soil/water) WATER

Lab Sample ID: VBLKF1

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: LLOB001BV

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 03/25/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

75-71-8-----	Dichlorodifluoromethane	0.50	U
74-87-3-----	Chloromethane	0.50	U
75-01-4-----	Vinyl Chloride	0.50	U
74-83-9-----	Bromomethane	0.50	U
75-00-3-----	Chloroethane	0.50	U
75-69-4-----	Trichlorofluoromethane	0.50	U
67-64-1-----	Acetone	5.0	U
75-35-4-----	1,1-Dichloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-15-0-----	Carbon Disulfide	0.50	U
75-09-2-----	Methylene Chloride	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	0.50	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	5.0	U
590-20-7-----	2,2-Dichloropropane	0.50	U
67-66-3-----	Chloroform	0.50	U
74-97-5-----	Bromochloromethane	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
71-43-2-----	Benzene	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	5.0	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	U
108-88-3-----	Toluene	0.50	U
10061-02-6-----	trans-1,3-Dichloropropene	0.50	U
79-00-5-----	1,1,2-Trichloroethane	0.50	U
591-78-6-----	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ITSDAL SAMPLE NO.

VBLKF1

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: VBLKF1  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLOB001BV  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/25/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKH5

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: VBLKH5  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLOB001CV  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/31/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKH5

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: VBLKH5  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLOB001CV  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/31/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

142-28-9-----	1,3-Dichloropropane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
123-91-1-----	1,4-Dioxane	50	U
109-99-9-----	Tetrahydrofuran	50	U
124-48-1-----	Dibromochloromethane	0.50	U
106-93-4-----	1,2-Dibromoethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4-----	Ethylbenzene	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	0.50	U
98-06-6-----	tert-Butylbenzene	0.50	U
95-63-6-----	1,2,4-Trimethylbenzene	0.50	U
135-98-8-----	sec-Butylbenzene	0.50	U
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.50	U
87-68-3-----	Hexachlorobutadiene	0.50	U
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBK18

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: VBK18  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLOB002DV  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	0.50	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
591-78-6	2-Hexanone	5.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKI8

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: VBLKI8  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLOB002DV  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	50	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL141MS

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354928MS  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354928MSV  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	8.3	
74-87-3	Chloromethane	9.4	
75-01-4	Vinyl Chloride	9.1	
74-83-9	Bromomethane	9.1	
75-00-3	Chloroethane	12	
75-69-4	Trichlorofluoromethane	9.6	
67-64-1	Acetone	27	
75-35-4	1,1-Dichloroethene	9.6	
156-60-5	trans-1,2-Dichloroethene	9.5	
75-15-0	Carbon Disulfide	8.2	
75-09-2	Methylene Chloride	9.8	
1634-04-4	Methyl-t-Butyl Ether	9.6	
75-34-3	1,1-Dichloroethane	9.5	
156-59-2	cis-1,2-Dichloroethene	9.6	
78-93-3	2-Butanone	26	
590-20-7	2,2-Dichloropropane	8.5	
67-66-3	Chloroform	10	
74-97-5	Bromochloromethane	9.8	
71-55-6	1,1,1-Trichloroethane	9.6	
563-58-6	1,1-Dichloropropene	9.4	
56-23-5	Carbon Tetrachloride	9.4	
107-06-2	1,2-Dichloroethane	9.7	
71-43-2	Benzene	9.9	
79-01-6	Trichloroethene	9.6	
78-87-5	1,2-Dichloropropane	9.6	
75-27-4	Bromodichloromethane	9.6	
74-95-3	Dibromomethane	10	
108-10-1	4-Methyl-2-Pentanone	28	
10061-01-5	cis-1,3-Dichloropropene	8.9	
108-88-3	Toluene	9.8	
10061-02-6	trans-1,3-Dichloropropene	9.0	
79-00-5	1,1,2-Trichloroethane	10	
591-78-6	2-Hexanone	24	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL141MS

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354928MS  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354928MSV  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

142-28-9	1,3-Dichloropropane	9.6	
127-18-4	Tetrachloroethene	9.7	
123-91-1	1,4-Dioxane	230	
109-99-9	Tetrahydrofuran	240	
124-48-1	Dibromochloromethane	9.5	
106-93-4	1,2-Dibromoethane	10	
108-90-7	Chlorobenzene	9.8	
630-20-6	1,1,1,2-Tetrachloroethane	10	
100-41-4	Ethylbenzene	9.7	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	8.5	
75-25-2	Bromoform	9.0	
98-82-8	Isopropylbenzene	9.9	
79-34-5	1,1,2,2-Tetrachloroethane	10	
96-18-4	1,2,3-Trichloropropane	10	
108-86-1	Bromobenzene	10	
103-65-1	n-Propylbenzene	9.8	
95-49-8	2-Chlorotoluene	10	
108-67-8	1,3,5-Trimethylbenzene	9.5	
106-43-4	4-Chlorotoluene	9.9	
98-06-6	tert-Butylbenzene	9.9	
95-63-6	1,2,4-Trimethylbenzene	9.3	
135-98-8	sec-Butylbenzene	9.6	
99-87-6	p-Isopropyltoluene	9.8	
541-73-1	1,3-Dichlorobenzene	9.7	
106-46-7	1,4-Dichlorobenzene	10	
104-51-8	n-Butylbenzene	9.6	
95-50-1	1,2-Dichlorobenzene	10	
96-12-8	1,2-Dibromo-3-Chloropropane	9.9	
120-82-1	1,2,4-Trichlorobenzene	9.8	
87-68-3	Hexachlorobutadiene	9.9	
91-20-3	Naphthalene	10	
87-61-6	1,2,3-Trichlorobenzene	10	



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL141MSD

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354928MD  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354928MDV  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	8.8	
74-87-3	Chloromethane	9.7	
75-01-4	Vinyl Chloride	9.8	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	12	
75-69-4	Trichlorofluoromethane	9.9	
67-64-1	Acetone	28	
75-35-4	1,1-Dichloroethene	9.9	
156-60-5	trans-1,2-Dichloroethene	9.8	
75-15-0	Carbon Disulfide	8.7	
75-09-2	Methylene Chloride	10	
1634-04-4	Methyl-t-Butyl Ether	10	
75-34-3	1,1-Dichloroethane	9.7	
156-59-2	cis-1,2-Dichloroethene	9.8	
78-93-3	2-Butanone	29	
590-20-7	2,2-Dichloropropane	8.3	
67-66-3	Chloroform	10	
74-97-5	Bromochloromethane	9.9	
71-55-6	1,1,1-Trichloroethane	9.7	
563-58-6	1,1-Dichloropropene	9.5	
56-23-5	Carbon Tetrachloride	9.6	
107-06-2	1,2-Dichloroethane	9.8	
71-43-2	Benzene	10	
79-01-6	Trichloroethene	9.8	
78-87-5	1,2-Dichloropropane	9.8	
75-27-4	Bromodichloromethane	9.7	
74-95-3	Dibromomethane	10	
108-10-1	4-Methyl-2-Pentanone	26	
10061-01-5	cis-1,3-Dichloropropene	9.3	
108-88-3	Toluene	9.9	
10061-02-6	trans-1,3-Dichloropropene	9.3	
79-00-5	1,1,2-Trichloroethane	10	
591-78-6	2-Hexanone	26	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL141MSD

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 354928MD  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L354928MDV  
 Level: (low/med) LOW Date Received: 03/28/98  
 % Moisture: not dec. Date Analyzed: 04/01/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	9.9	
127-18-4	Tetrachloroethene	9.9	
123-91-1	1,4-Dioxane	260	
109-99-9	Tetrahydrofuran	240	
124-48-1	Dibromochloromethane	9.8	
106-93-4	1,2-Dibromoethane	9.9	
108-90-7	Chlorobenzene	10	
630-20-6	1,1,1,2-Tetrachloroethane	10	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	30	
100-42-5	Styrene	8.6	
75-25-2	Bromoform	9.2	
98-82-8	Isopropylbenzene	10	
79-34-5	1,1,2,2-Tetrachloroethane	11	
96-18-4	1,2,3-Trichloropropane	11	
108-86-1	Bromobenzene	10	
103-65-1	n-Propylbenzene	10	
95-49-8	2-Chlorotoluene	10	
108-67-8	1,3,5-Trimethylbenzene	9.8	
106-43-4	4-Chlorotoluene	10	
98-06-6	tert-Butylbenzene	10	
95-63-6	1,2,4-Trimethylbenzene	9.7	
135-98-8	sec-Butylbenzene	10	
99-87-6	p-Isopropyltoluene	10	
541-73-1	1,3-Dichlorobenzene	9.7	
106-46-7	1,4-Dichlorobenzene	11	
104-51-8	n-Butylbenzene	10	
95-50-1	1,2-Dichlorobenzene	11	
96-12-8	1,2-Dibromo-3-Chloropropane	11	
120-82-1	1,2,4-Trichlorobenzene	10	
87-68-3	Hexachlorobutadiene	10	
91-20-3	Naphthalene	11	
87-61-6	1,2,3-Trichlorobenzene	10	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MBS

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 68675

Matrix: (soil/water) WATER                      Lab Sample ID: 354935

Sample wt/vol:            5.000 (g/mL) ML                      Lab File ID: LLO001CQV

Level:    (low/med)    LOW                      Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_                      Date Analyzed: 03/31/98

GC Column: DB-624    ID: 0.53 (mm)                      Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)                      Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.90	
74-87-3	Chloromethane	1.0	
75-01-4	Vinyl Chloride	1.0	
74-83-9	Bromomethane	1.4	
75-00-3	Chloroethane	1.5	
75-69-4	Trichlorofluoromethane	0.99	
67-64-1	Acetone	5.6	
75-35-4	1,1-Dichloroethene	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	
75-15-0	Carbon Disulfide	1.1	
75-09-2	Methylene Chloride	1.1	
1634-04-4	Methyl-t-Butyl Ether	1.1	
75-34-3	1,1-Dichloroethane	1.0	
156-59-2	cis-1,2-Dichloroethene	1.0	
78-93-3	2-Butanone	5.1	
590-20-7	2,2-Dichloropropane	1.1	
67-66-3	Chloroform	1.0	
74-97-5	Bromochloromethane	0.95	
71-55-6	1,1,1-Trichloroethane	0.96	
563-58-6	1,1-Dichloropropene	1.0	
56-23-5	Carbon Tetrachloride	1.0	
107-06-2	1,2-Dichloroethane	0.99	
71-43-2	Benzene	1.0	
79-01-6	Trichloroethene	1.0	
78-87-5	1,2-Dichloropropane	0.99	
75-27-4	Bromodichloromethane	0.98	
74-95-3	Dibromomethane	1.0	
108-10-1	4-Methyl-2-Pentanone	4.9	J
10061-01-5	cis-1,3-Dichloropropene	0.95	
108-88-3	Toluene	1.0	
10061-02-6	trans-1,3-Dichloropropene	0.94	
79-00-5	1,1,2-Trichloroethane	1.0	
591-78-6	2-Hexanone	2.2	J

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MBS

Lab Name: ITS ENVIRONMENTAL Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675

Matrix: (soil/water) WATER Lab Sample ID: 354935

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLO001CQV

Level: (low/med) LOW Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/31/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	1.0	
127-18-4	Tetrachloroethene	1.0	
123-91-1	1,4-Dioxane	24	J
109-99-9	Tetrahydrofuran	52	
124-48-1	Dibromochloromethane	0.98	
106-93-4	1,2-Dibromoethane	0.97	
108-90-7	Chlorobenzene	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	0.99	
100-41-4	Ethylbenzene	1.0	
1330-20-7	Xylene (total)	3.0	
100-42-5	Styrene	0.91	
75-25-2	Bromoform	0.88	
98-82-8	Isopropylbenzene	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	0.99	
96-18-4	1,2,3-Trichloropropane	0.96	
108-86-1	Bromobenzene	0.95	
103-65-1	n-Propylbenzene	0.90	
95-49-8	2-Chlorotoluene	0.96	
108-67-8	1,3,5-Trimethylbenzene	1.0	
106-43-4	4-Chlorotoluene	0.95	
98-06-6	tert-Butylbenzene	1.0	
95-63-6	1,2,4-Trimethylbenzene	0.92	
135-98-8	sec-Butylbenzene	0.98	
99-87-6	p-Isopropyltoluene	0.99	
541-73-1	1,3-Dichlorobenzene	0.95	
106-46-7	1,4-Dichlorobenzene	1.1	
104-51-8	n-Butylbenzene	1.0	
95-50-1	1,2-Dichlorobenzene	1.1	
96-12-8	1,2-Dibromo-3-Chloropropane	1.3	
120-82-1	1,2,4-Trichlorobenzene	0.96	
87-68-3	Hexachlorobutadiene	1.1	
91-20-3	Naphthalene	1.0	
87-61-6	1,2,3-Trichlorobenzene	1.0	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0.5LLOBLCS

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 0.5LLOBLCS  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLO0005BV  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/26/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.48	J
74-87-3	Chloromethane	0.48	J
75-01-4	Vinyl Chloride	0.46	J
74-83-9	Bromomethane	0.64	
75-00-3	Chloroethane	0.61	
75-69-4	Trichlorofluoromethane	0.49	J
67-64-1	Acetone	4.6	J
75-35-4	1,1-Dichloroethene	0.49	J
156-60-5	trans-1,2-Dichloroethene	0.51	
75-15-0	Carbon Disulfide	0.49	J
75-09-2	Methylene Chloride	0.53	
1634-04-4	Methyl-t-Butyl Ether	0.54	
75-34-3	1,1-Dichloroethane	0.51	
156-59-2	cis-1,2-Dichloroethene	0.49	J
78-93-3	2-Butanone	4.4	J
590-20-7	2,2-Dichloropropane	0.59	
67-66-3	Chloroform	0.56	
74-97-5	Bromochloromethane	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
563-58-6	1,1-Dichloropropene	0.49	J
56-23-5	Carbon Tetrachloride	0.49	J
107-06-2	1,2-Dichloroethane	0.51	
71-43-2	Benzene	0.60	
79-01-6	Trichloroethene	0.52	
78-87-5	1,2-Dichloropropane	0.48	J
75-27-4	Bromodichloromethane	0.50	
74-95-3	Dibromomethane	0.50	
108-10-1	4-Methyl-2-Pentanone	4.8	J
10061-01-5	cis-1,3-Dichloropropene	0.45	J
108-88-3	Toluene	0.54	
10061-02-6	trans-1,3-Dichloropropene	0.42	J
79-00-5	1,1,2-Trichloroethane	0.50	
591-78-6	2-Hexanone	3.7	J

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0.5LLOBLCS

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 0.5LLOBLCS  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLO0005BV  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/26/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.47	J
127-18-4	Tetrachloroethene	0.49	J
123-91-1	1,4-Dioxane	8.8	J
109-99-9	Tetrahydrofuran	52	
124-48-1	Dibromochloromethane	0.47	J
106-93-4	1,2-Dibromoethane	0.47	J
108-90-7	Chlorobenzene	0.51	
630-20-6	1,1,1,2-Tetrachloroethane	0.46	J
100-41-4	Ethylbenzene	0.53	
1330-20-7	Xylene (total)	1.5	
100-42-5	Styrene	0.42	J
75-25-2	Bromoform	0.37	J
98-82-8	Isopropylbenzene	0.48	J
79-34-5	1,1,2,2-Tetrachloroethane	0.49	J
96-18-4	1,2,3-Trichloropropane	0.45	J
108-86-1	Bromobenzene	0.43	J
103-65-1	n-Propylbenzene	0.42	J
95-49-8	2-Chlorotoluene	0.44	J
108-67-8	1,3,5-Trimethylbenzene	0.48	J
106-43-4	4-Chlorotoluene	0.42	J
98-06-6	tert-Butylbenzene	0.48	J
95-63-6	1,2,4-Trimethylbenzene	0.51	
135-98-8	sec-Butylbenzene	0.49	J
99-87-6	p-Isopropyltoluene	0.48	J
541-73-1	1,3-Dichlorobenzene	0.49	J
106-46-7	1,4-Dichlorobenzene	0.53	
104-51-8	n-Butylbenzene	0.54	
95-50-1	1,2-Dichlorobenzene	0.53	
96-12-8	1,2-Dibromo-3-Chloropropane	0.65	
120-82-1	1,2,4-Trichlorobenzene	0.47	J
87-68-3	Hexachlorobutadiene	0.46	J
91-20-3	Naphthalene	0.49	J
87-61-6	1,2,3-Trichlorobenzene	0.47	J

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0.5LLOCLCS

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675

Matrix: (soil/water) WATER                      Lab Sample ID: 0.5LLOCLCS

Sample wt/vol:              5.000 (g/mL) ML                      Lab File ID:      LLO0005CV

Level:      (low/med)      LOW                      Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_                      Date Analyzed: 03/31/98

GC Column: DB-624      ID: 0.53 (mm)                      Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)                      Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.46	J
74-87-3	Chloromethane	0.53	
75-01-4	Vinyl Chloride	0.47	J
74-83-9	Bromomethane	0.53	
75-00-3	Chloroethane	0.67	
75-69-4	Trichlorofluoromethane	0.47	J
67-64-1	Acetone	5.2	
75-35-4	1,1-Dichloroethene	0.49	J
156-60-5	trans-1,2-Dichloroethene	0.49	J
75-15-0	Carbon Disulfide	0.51	
75-09-2	Methylene Chloride	0.49	J
1634-04-4	Methyl-t-Butyl Ether	0.51	
75-34-3	1,1-Dichloroethane	0.50	
156-59-2	cis-1,2-Dichloroethene	0.45	J
78-93-3	2-Butanone	4.4	J
590-20-7	2,2-Dichloropropane	0.53	
67-66-3	Chloroform	0.48	J
74-97-5	Bromochloromethane	0.49	J
71-55-6	1,1,1-Trichloroethane	0.47	J
563-58-6	1,1-Dichloropropene	0.45	J
56-23-5	Carbon Tetrachloride	0.45	J
107-06-2	1,2-Dichloroethane	0.42	J
71-43-2	Benzene	0.49	J
79-01-6	Trichloroethene	0.47	J
78-87-5	1,2-Dichloropropane	0.48	J
75-27-4	Bromodichloromethane	0.45	J
74-95-3	Dibromomethane	0.40	J
108-10-1	4-Methyl-2-Pentanone	4.0	J
10061-01-5	cis-1,3-Dichloropropene	0.42	J
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.38	J
79-00-5	1,1,2-Trichloroethane	0.40	J
591-78-6	2-Hexanone	2.4	J

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0.5LLOCLCS

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 0.5LLOCLCS  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLO0005CV  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/31/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.43	J
127-18-4	Tetrachloroethene	0.47	J
123-91-1	1,4-Dioxane	6.1	J
109-99-9	Tetrahydrofuran	40	J
124-48-1	Dibromochloromethane	0.45	J
106-93-4	1,2-Dibromoethane	0.43	J
108-90-7	Chlorobenzene	0.47	J
630-20-6	1,1,1,2-Tetrachloroethane	0.47	J
100-41-4	Ethylbenzene	0.50	
1330-20-7	Xylene (total)	1.5	
100-42-5	Styrene	0.42	J
75-25-2	Bromoform	0.38	J
98-82-8	Isopropylbenzene	0.47	J
79-34-5	1,1,2,2-Tetrachloroethane	0.47	J
96-18-4	1,2,3-Trichloropropane	0.50	
108-86-1	Bromobenzene	0.43	J
103-65-1	n-Propylbenzene	0.40	J
95-49-8	2-Chlorotoluene	0.42	J
108-67-8	1,3,5-Trimethylbenzene	0.47	J
106-43-4	4-Chlorotoluene	0.40	J
98-06-6	tert-Butylbenzene	0.46	J
95-63-6	1,2,4-Trimethylbenzene	0.46	J
135-98-8	sec-Butylbenzene	0.46	J
99-87-6	p-Isopropyltoluene	0.46	J
541-73-1	1,3-Dichlorobenzene	0.43	J
106-46-7	1,4-Dichlorobenzene	0.50	
104-51-8	n-Butylbenzene	0.51	
95-50-1	1,2-Dichlorobenzene	0.50	
96-12-8	1,2-Dibromo-3-Chloropropane	0.40	J
120-82-1	1,2,4-Trichlorobenzene	0.45	J
87-68-3	Hexachlorobutadiene	0.52	
91-20-3	Naphthalene	0.47	J
87-61-6	1,2,3-Trichlorobenzene	0.47	J



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0.5LLODLCS

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 0.5LLODLCS  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLO0005DV  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.46	J
74-87-3	Chloromethane	0.46	J
75-01-4	Vinyl Chloride	0.48	J
74-83-9	Bromomethane	0.53	
75-00-3	Chloroethane	0.51	
75-69-4	Trichlorofluoromethane	0.50	
67-64-1	Acetone	4.6	J
75-35-4	1,1-Dichloroethene	0.47	J
156-60-5	trans-1,2-Dichloroethene	0.46	J
75-15-0	Carbon Disulfide	0.49	J
75-09-2	Methylene Chloride	0.49	J
1634-04-4	Methyl-t-Butyl Ether	0.49	J
75-34-3	1,1-Dichloroethane	0.52	
156-59-2	cis-1,2-Dichloroethene	0.50	
78-93-3	2-Butanone	4.5	J
590-20-7	2,2-Dichloropropane	0.50	
67-66-3	Chloroform	0.60	
74-97-5	Bromochloromethane	0.45	J
71-55-6	1,1,1-Trichloroethane	0.50	
563-58-6	1,1-Dichloropropene	0.49	J
56-23-5	Carbon Tetrachloride	0.48	J
107-06-2	1,2-Dichloroethane	0.50	
71-43-2	Benzene	0.59	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.49	J
75-27-4	Bromodichloromethane	0.46	J
74-95-3	Dibromomethane	0.45	J
108-10-1	4-Methyl-2-Pentanone	4.1	J
10061-01-5	cis-1,3-Dichloropropene	0.42	J
108-88-3	Toluene	0.48	J
10061-02-6	trans-1,3-Dichloropropene	0.40	J
79-00-5	1,1,2-Trichloroethane	0.48	J
591-78-6	2-Hexanone	2.8	J

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0.5LLODLCS

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675  
 Matrix: (soil/water) WATER Lab Sample ID: 0.5LLODLCS  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLO0005DV  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/06/98  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	0.45	J
127-18-4	Tetrachloroethene	0.49	J
123-91-1	1,4-Dioxane	50	U
109-99-9	Tetrahydrofuran	54	
124-48-1	Dibromochloromethane	0.41	J
106-93-4	1,2-Dibromoethane	0.43	J
108-90-7	Chlorobenzene	0.49	J
630-20-6	1,1,1,2-Tetrachloroethane	0.44	J
100-41-4	Ethylbenzene	0.48	J
1330-20-7	Xylene (total)	1.4	
100-42-5	Styrene	0.41	J
75-25-2	Bromoform	0.40	J
98-82-8	Isopropylbenzene	0.47	J
79-34-5	1,1,2,2-Tetrachloroethane	0.44	J
96-18-4	1,2,3-Trichloropropane	0.46	J
108-86-1	Bromobenzene	0.43	J
103-65-1	n-Propylbenzene	0.41	J
95-49-8	2-Chlorotoluene	0.45	J
108-67-8	1,3,5-Trimethylbenzene	0.47	J
106-43-4	4-Chlorotoluene	0.42	J
98-06-6	tert-Butylbenzene	0.48	J
95-63-6	1,2,4-Trimethylbenzene	0.47	J
135-98-8	sec-Butylbenzene	0.50	
99-87-6	p-Isopropyltoluene	0.48	J
541-73-1	1,3-Dichlorobenzene	0.45	J
106-46-7	1,4-Dichlorobenzene	0.46	J
104-51-8	n-Butylbenzene	0.52	
95-50-1	1,2-Dichlorobenzene	0.49	J
96-12-8	1,2-Dibromo-3-Chloropropane	0.27	J
120-82-1	1,2,4-Trichlorobenzene	0.48	J
87-68-3	Hexachlorobutadiene	0.53	
91-20-3	Naphthalene	0.47	J
87-61-6	1,2,3-Trichlorobenzene	0.49	J

FORM 2  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68675

	CLIENT SAMPLE NO.	SMC1 (DCE) #	SMC2 (BFB) #	SMC3 (DCB) #	OTHER	TOT OUT
=====						
01	LLOICVLCS	110	100	95		0
02	VBLKF1	100	100	95		0
03	AL130	100	95	95		0
04	AL131	100	90	95		0
05	AL132	95	95	100		0
06	0.5LLOBLCS	100	95	95		0
07	MBS	100	100	95		0
08	0.5LLOCLCS	95	95	90		0
09	VBLKH5	100	100	100		0
10	AL153	95	95	90		0
11	AL154	95	90	90		0
12	AL142	100	90	95		0
13	AL155	100	90	95		0
14	AL148	100	95	95		0
15	AL162	100	95	95		0
16	AL163	100	90	95		0
17	AL151	100	95	100		0
18	AL159	100	90	95		0
19	AL141	100	90	95		0
20	AL158	95	90	90		0
21	AL138	100	90	90		0
22	AL140	95	95	95		0
23	AL141MS	95	100	100		0
24	AL141MSD	95	100	100		0
25	0.5LLODLCS	95	90	90		0
26	VBLKI8	95	90	90		0
27	AL134	100	85*	95		1
28	AL164	120	100	105		0
29	AL146	110	90	100		0
30	AL149	115	95	105		0

QC LIMITS

SMC1 (DCE) = 1,2-Dichloroethane-d4 (83-143)  
 SMC2 (BFB) = Bromofluorobenzene (86-115)  
 SMC3 (DCB) = 1,2-Dichlorobenzene-d4 (80-120)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Matrix Spike - ENGSC2 Sample No.: AL141

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
m- & p-Xylene	20	0.0	20	100	60-140
o-Xylene	10	0.0	9.8	98	60-140
Dichlorodifluoromethane	10	0.0	8.3	83	60-140
Chloromethane	10	0.0	9.4	94	60-140
Vinyl Chloride	10	0.0	9.1	91	60-140
Bromomethane	10	0.0	9.1	91	60-140
Chloroethane	10	0.0	12	120	60-140
Trichlorofluoromethane	10	0.0	9.6	96	60-140
Acetone	25	0.0	27	108	60-140
1,1-Dichloroethene	10	0.0	9.6	96	60-140
trans-1,2-Dichloroethen	10	0.0	9.5	95	60-140
Carbon Disulfide	10	0.0	8.2	82	60-140
Methylene Chloride	10	0.0	9.8	98	60-140
Methyl-t-Butyl Ether	10	0.0	9.6	96	60-140
1,1-Dichloroethane	10	0.0	9.5	95	60-140
cis-1,2-Dichloroethene	10	0.0	9.6	96	60-140
2-Butanone	25	0.0	26	104	60-140
2,2-Dichloropropane	10	0.0	8.5	85	60-140
Chloroform	10	0.0	10	100	60-140
Bromochloromethane	10	0.0	9.8	98	60-140
1,1,1-Trichloroethane	10	0.0	9.6	96	60-140
1,1-Dichloropropene	10	0.0	9.4	94	60-140
Carbon Tetrachloride	10	0.0	9.4	94	60-140
1,2-Dichloroethane	10	0.0	9.7	97	60-140
Benzene	10	0.0	9.9	99	60-140
Trichloroethene	10	0.0	9.6	96	60-140
1,2-Dichloropropane	10	0.0	9.6	96	60-140
Bromodichloromethane	10	0.0	9.6	96	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS: \_\_\_\_\_

FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68675

Matrix Spike - ENGSC2 Sample No.: AL141

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Dibromomethane	10	0.0	10	100	60-140
4-Methyl-2-Pentanone	25	0.0	28	112	60-140
cis-1,3-Dichloropropene	10	0.0	8.9	89	60-140
Toluene	10	0.0	9.8	98	60-140
trans-1,3-Dichloroprope	10	0.0	9.0	90	60-140
1,1,2-Trichloroethane	10	0.0	10	100	60-140
2-Hexanone	25	0.0	24	96	60-140
1,3-Dichloropropane	10	0.0	9.6	96	60-140
Tetrachloroethene	10	0.0	9.7	97	60-140
1,4-Dioxane	250	0.0	230	92	60-140
Tetrahydrofuran	250	0.0	240	96	60-140
Dibromochloromethane	10	0.0	9.5	95	60-140
1,2-Dibromoethane	10	0.0	10	100	60-140
Chlorobenzene	10	0.0	9.8	98	60-140
1,1,1,2-Tetrachloroetha	10	0.0	10	100	60-140
Ethylbenzene	10	0.0	9.7	97	60-140
Xylene (total)	30	0.0	29	97	60-140
Styrene	10	0.0	8.5	85	60-140
Bromoform	10	0.0	9.0	90	60-140
Isopropylbenzene	10	0.0	9.9	99	60-140
1,1,2,2-Tetrachloroetha	10	0.0	10	100	60-140
1,2,3-Trichloropropane	10	0.0	10	100	60-140
Bromobenzene	10	0.0	10	100	60-140
n-Propylbenzene	10	0.0	9.8	98	60-140
2-Chlorotoluene	10	0.0	10	100	60-140
1,3,5-Trimethylbenzene	10	0.0	9.5	95	60-140
4-Chlorotoluene	10	0.0	9.9	99	60-140
tert-Butylbenzene	10	0.0	9.9	99	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS:

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FORM 3  
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68675

Matrix Spike - ENGSC2 Sample No.: AL141

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,2,4-Trimethylbenzene	10	0.0	9.3	93	60-140
sec-Butylbenzene	10	0.0	9.6	96	60-140
p-Isopropyltoluene	10	0.0	9.8	98	60-140
1,3-Dichlorobenzene	10	0.0	9.7	97	60-140
1,4-Dichlorobenzene	10	0.0	10	100	60-140
n-Butylbenzene	10	0.0	9.6	96	60-140
1,2-Dichlorobenzene	10	0.0	10	100	60-140
1,2-Dibromo-3-Chloropro	10	0.0	9.9	99	60-140
1,2,4-Trichlorobenzene	10	0.0	9.8	98	60-140
Hexachlorobutadiene	10	0.0	9.9	99	60-140
Naphthalene	10	0.0	10	100	60-140
1,2,3-Trichlorobenzene	10	0.0	10	100	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS:

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FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68675

Matrix Spike - ENGSC2 Sample No.: AL141

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
m- & p-Xylene	20	20	100	0	25	60-140
o-Xylene	10	10	100	2	25	60-140
Dichlorodifluoromethane	10	8.8	88	6	25	60-140
Chloromethane	10	9.7	97	3	25	60-140
Vinyl Chloride	10	9.8	98	7	25	60-140
Bromomethane	10	10	100	9	25	60-140
Chloroethane	10	12	120	0	25	60-140
Trichlorofluoromethane	10	9.9	99	3	25	60-140
Acetone	25	28	112	4	25	60-140
1,1-Dichloroethene	10	9.9	99	3	25	60-140
trans-1,2-Dichloroethen	10	9.8	98	3	25	60-140
Carbon Disulfide	10	8.7	87	6	25	60-140
Methylene Chloride	10	10	100	2	25	60-140
Methyl-t-Butyl Ether	10	10	100	4	25	60-140
1,1-Dichloroethane	10	9.7	97	2	25	60-140
cis-1,2-Dichloroethene	10	9.8	98	2	25	60-140
2-Butanone	25	29	116	11	25	60-140
2,2-Dichloropropane	10	8.3	83	2	25	60-140
Chloroform	10	10	100	0	25	60-140
Bromochloromethane	10	9.9	99	1	25	60-140
1,1,1-Trichloroethane	10	9.7	97	1	25	60-140
1,1-Dichloropropene	10	9.5	95	1	25	60-140
Carbon Tetrachloride	10	9.6	96	2	25	60-140
1,2-Dichloroethane	10	9.8	98	1	25	60-140
Benzene	10	10	100	1	25	60-140
Trichloroethene	10	9.8	98	2	25	60-140
1,2-Dichloropropane	10	9.8	98	2	25	60-140
Bromodichloromethane	10	9.7	97	1	25	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS:

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FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675

Matrix Spike - ENGSC2 Sample No.: AL141

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Dibromomethane	10	10	100	0	25	60-140
4-Methyl-2-Pentanone	25	26	104	7	25	60-140
cis-1,3-Dichloropropene	10	9.3	93	4	25	60-140
Toluene	10	9.9	99	1	25	60-140
trans-1,3-Dichloroprope	10	9.3	93	3	25	60-140
1,1,2-Trichloroethane	10	10	100	0	25	60-140
2-Hexanone	25	26	104	8	25	60-140
1,3-Dichloropropane	10	9.9	99	3	25	60-140
Tetrachloroethene	10	9.9	99	2	25	60-140
1,4-Dioxane	250	260	104	12	25	60-140
Tetrahydrofuran	250	240	96	0	25	60-140
Dibromochloromethane	10	9.8	98	3	25	60-140
1,2-Dibromoethane	10	9.9	99	1	25	60-140
Chlorobenzene	10	10	100	2	25	60-140
1,1,1,2-Tetrachloroetha	10	10	100	0	25	60-140
Ethylbenzene	10	10	100	3	25	60-140
Xylene (total)	30	30	100	3	25	60-140
Styrene	10	8.6	86	1	25	60-140
Bromoform	10	9.2	92	2	25	60-140
Isopropylbenzene	10	10	100	1	25	60-140
1,1,2,2-Tetrachloroetha	10	11	110	10	25	60-140
1,2,3-Trichloropropane	10	11	110	10	25	60-140
Bromobenzene	10	10	100	0	25	60-140
n-Propylbenzene	10	10	100	2	25	60-140
2-Chlorotoluene	10	10	100	0	25	60-140
1,3,5-Trimethylbenzene	10	9.8	98	3	25	60-140
4-Chlorotoluene	10	10	100	1	25	60-140
tert-Butylbenzene	10	10	100	1	25	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS: \_\_\_\_\_



FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Matrix Spike - ENGSC2 Sample No.: AL141

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1,2,4-Trimethylbenzene	10	9.7	97	4	25	60-140
sec-Butylbenzene	10	10	100	4	25	60-140
p-Isopropyltoluene	10	10	100	2	25	60-140
1,3-Dichlorobenzene	10	9.7	97	0	25	60-140
1,4-Dichlorobenzene	10	11	110	10	25	60-140
n-Butylbenzene	10	10	100	4	25	60-140
1,2-Dichlorobenzene	10	11	110	10	25	60-140
1,2-Dibromo-3-Chloropro	10	11	110	10	25	60-140
1,2,4-Trichlorobenzene	10	10	100	2	25	60-140
Hexachlorobutadiene	10	10	100	1	25	60-140
Naphthalene	10	11	110	10	25	60-140
1,2,3-Trichlorobenzene	10	10	100	0	25	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 68 outside limits

Spike Recovery: 0 out of 136 outside limits

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

FORM 3  
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68675

Matrix Spike - Sample No.: MBS

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC. LIMITS REC.
m- & p-Xylene	2.0		2.0	100	60-140
o-Xylene	1.0		0.96	96	60-140
Dichlorodifluoromethane	1.0		0.90	90	60-140
Chloromethane	1.0		1.0	100	60-140
Vinyl Chloride	1.0		1.0	100	60-140
Bromomethane	1.0		1.4	140	60-140
Chloroethane	1.0		1.5	150*	60-140
Trichlorofluoromethane	1.0		0.99	99	60-140
Acetone	5.0		5.6	112	60-140
1,1-Dichloroethene	1.0		1.0	100	60-140
trans-1,2-Dichloroethen	1.0		1.0	100	60-140
Carbon Disulfide	1.0		1.1	110	60-140
Methylene Chloride	1.0		1.1	110	60-140
Methyl-t-Butyl Ether	1.0		1.1	110	60-140
1,1-Dichloroethane	1.0		1.0	100	60-140
cis-1,2-Dichloroethene	1.0		1.0	100	60-140
2-Butanone	5.0		5.1	102	60-140
2,2-Dichloropropane	1.0		1.1	110	60-140
Chloroform	1.0		1.0	100	60-140
Bromochloromethane	1.0		0.95	95	60-140
1,1,1-Trichloroethane	1.0		0.96	96	60-140
1,1-Dichloropropene	1.0		1.0	100	60-140
Carbon Tetrachloride	1.0		1.0	100	60-140
1,2-Dichloroethane	1.0		0.99	99	60-140
Benzene	1.0		1.0	100	60-140
Trichloroethene	1.0		1.0	100	60-140
1,2-Dichloropropane	1.0		0.99	99	60-140
Bromodichloromethane	1.0		0.98	98	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS: \_\_\_\_\_

FORM 3  
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68675

Matrix Spike - Sample No.: MBS

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC. LIMITS REC.
Dibromomethane	1.0		1.0	100	60-140
4-Methyl-2-Pentanone	5.0		4.9	98	60-140
cis-1,3-Dichloropropene	1.0		0.95	95	60-140
Toluene	1.0		1.0	100	60-140
trans-1,3-Dichloroprope	1.0		0.94	94	60-140
1,1,2-Trichloroethane	1.0		1.0	100	60-140
2-Hexanone	5.0		2.2	44*	60-140
1,3-Dichloropropane	1.0		1.0	100	60-140
Tetrachloroethene	1.0		1.0	100	60-140
1,4-Dioxane	50		24	48*	60-140
Tetrahydrofuran	50		52	104	60-140
Dibromochloromethane	1.0		0.98	98	60-140
1,2-Dibromoethane	1.0		0.97	97	60-140
Chlorobenzene	1.0		1.0	100	60-140
1,1,1,2-Tetrachloroetha	1.0		0.99	99	60-140
Ethylbenzene	1.0		1.0	100	60-140
Xylene (total)	3.0		3.0	100	60-140
Styrene	1.0		0.91	91	60-140
Bromoform	1.0		0.88	88	60-140
Isopropylbenzene	1.0		1.0	100	60-140
1,1,2,2-Tetrachloroetha	1.0		0.99	99	60-140
1,2,3-Trichloropropane	1.0		0.96	96	60-140
Bromobenzene	1.0		0.95	95	60-140
n-Propylbenzene	1.0		0.90	90	60-140
2-Chlorotoluene	1.0		0.96	96	60-140
1,3,5-Trimethylbenzene	1.0		1.0	100	60-140
4-Chlorotoluene	1.0		0.95	95	60-140
tert-Butylbenzene	1.0		1.0	100	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS:

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FORM 3  
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Matrix Spike - Sample No.: MBS

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC. LIMITS REC.
1,2,4-Trimethylbenzene	1.0		0.92	92	60-140
sec-Butylbenzene	1.0		0.98	98	60-140
p-Isopropyltoluene	1.0		0.99	99	60-140
1,3-Dichlorobenzene	1.0		0.95	95	60-140
1,4-Dichlorobenzene	1.0		1.1	110	60-140
n-Butylbenzene	1.0		1.0	100	60-140
1,2-Dichlorobenzene	1.0		1.1	110	60-140
1,2-Dibromo-3-Chloropro	1.0		1.3	130	60-140
1,2,4-Trichlorobenzene	1.0		0.96	96	60-140
Hexachlorobutadiene	1.0		1.1	110	60-140
Naphthalene	1.0		1.0	100	60-140
1,2,3-Trichlorobenzene	1.0		1.0	100	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 0 outside limits  
 Spike Recovery: 3 out of 68 outside limits

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675

Matrix Spike - Sample No.: 0.5LLOBLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
m- & p-Xylene	1.0		0.99	99	60-140
o-Xylene	0.50		0.45	90	60-140
Dichlorodifluoromethane	0.50		0.48	96	60-140
Chloromethane	0.50		0.48	96	60-140
Vinyl Chloride	0.50		0.46	92	60-140
Bromomethane	0.50		0.64	128	60-140
Chloroethane	0.50		0.61	122	60-140
Trichlorofluoromethane	0.50		0.49	98	60-140
Acetone	5.0		4.6	92	60-140
1,1-Dichloroethene	0.50		0.49	98	60-140
trans-1,2-Dichloroethen	0.50		0.51	102	60-140
Carbon Disulfide	0.50		0.49	98	60-140
Methylene Chloride	0.50		0.53	106	60-140
Methyl-t-Butyl Ether	0.50		0.54	108	60-140
1,1-Dichloroethane	0.50		0.51	102	60-140
cis-1,2-Dichloroethene	0.50		0.49	98	60-140
2-Butanone	5.0		4.4	88	60-140
2,2-Dichloropropane	0.50		0.59	118	60-140
Chloroform	0.50		0.56	112	60-140
Bromochloromethane	0.50		0.50	100	60-140
1,1,1-Trichloroethane	0.50		0.50	100	60-140
1,1-Dichloropropene	0.50		0.49	98	60-140
Carbon Tetrachloride	0.50		0.49	98	60-140
1,2-Dichloroethane	0.50		0.51	102	60-140
Benzene	0.50		0.60	120	60-140
Trichloroethene	0.50		0.52	104	60-140
1,2-Dichloropropane	0.50		0.48	96	60-140
Bromodichloromethane	0.50		0.50	100	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS: \_\_\_\_\_

FORM 5  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Lab File ID: LLO006PV                              BFB Injection Date: 04/06/98  
 Instrument ID: L                                      BFB Injection Time: 0818  
 GC Column: DB-624      ID: 0.53 (mm)                      Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.8
75	30.0 - 60.0% of mass 95	46.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 ( 0.0)1
174	50.0 - 120.0% of mass 95	69.2
175	5.0 - 9.0% of mass 174	4.9 ( 7.1)1
176	95.0 - 101.0% of mass 174	67.3 ( 97.2)1
177	5.0 - 9.0% of mass 176	4.6 ( 6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	LLO010D2HV	04/06/98	1023
02	0.5LLODLCS	0.5LLODLCS	LLO0005DV	04/06/98	1156
03	VBLKI8	VBLKI8	LLOB002DV	04/06/98	1343
04	AL134	355024	L355024V	04/06/98	1626
05	AL164	354978	L354978I2V	04/06/98	1846
06	AL146	354979	L354979I2V	04/06/98	1928
07	AL149	354981	L354981I2V	04/06/98	2017
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Instrument ID: L                      Calibration Date(s): 02/20/98      02/20/98  
 Heated Purge: (Y/N) N                      Calibration Time(s): 0755                      1038  
 GC Column: DB-624      ID: 0.53      (mm)

LAB FILE ID:	RRF2 =LLO002HV	RRF5 =LLO005HV					
RRF10 =LLO010HV	RRF20 =LLO020HV	RRF30 =LLO030HV					
COMPOUND	RRF2	RRF5	RRF10	RRF20	RRF30	RRF	% RSD
Dichlorodifluoromethane	* 0.468	0.462	0.462	0.459	0.428	0.456	3.5*
Chloromethane	* 0.226	0.229	0.222	0.212	0.209	0.220	3.9*
Vinyl Chloride	* 0.256	0.265	0.263	0.262	0.248	0.259	2.7*
Bromomethane	* 0.223	0.213	0.198	0.188	0.173	0.199	10.0*
Chloroethane	* 0.168	0.156	0.156	0.119	0.095	0.139	22.1*
Trichlorofluoromethane	* 0.613	0.603	0.612	0.579	0.520	0.585	6.7*
Acetone	* 0.042	0.034	0.036	0.040	0.036	0.038	9.1*
1,1-Dichloroethene	* 0.275	0.278	0.275	0.274	0.255	0.271	3.4*
trans-1,2-Dichloroethene	* 0.310	0.306	0.301	0.300	0.289	0.301	2.6*
Carbon Disulfide	* 0.829	0.810	0.818	0.797	0.750	0.801	3.8*
Methylene Chloride	* 0.281	0.279	0.278	0.277	0.267	0.276	1.9*
Methyl-t-Butyl Ether	* 0.642	0.631	0.612	0.632	0.599	0.623	2.8*
1,1-Dichloroethane	* 0.516	0.509	0.493	0.494	0.465	0.495	3.9*
cis-1,2-Dichloroethene	* 0.320	0.319	0.314	0.304	0.293	0.310	3.7*
2-Butanone	* 0.016	0.016	0.014	0.018	0.017	0.016	8.3*
2,2-Dichloropropane	* 0.543	0.536	0.519	0.489	0.462	0.510	6.6*
Chloroform	* 0.666	0.632	0.632	0.606	0.573	0.622	5.6*
Bromochloromethane	* 0.202	0.211	0.205	0.203	0.196	0.203	2.7*
1,1,1-Trichloroethane	* 0.567	0.559	0.568	0.544	0.528	0.553	3.1*
1,1-Dichloropropene	* 0.514	0.500	0.489	0.472	0.446	0.484	5.5*
Carbon Tetrachloride	* 0.549	0.553	0.551	0.532	0.505	0.538	3.8*
1,2-Dichloroethane	* 0.341	0.344	0.346	0.343	0.316	0.338	3.8*
Benzene	* 0.975	0.967	0.952	0.929	0.899	0.944	3.3*
Trichloroethene	* 0.390	0.383	0.380	0.369	0.359	0.376	3.3*
1,2-Dichloropropane	* 0.339	0.349	0.340	0.335	0.319	0.336	3.3*
Bromodichloromethane	* 0.587	0.605	0.603	0.596	0.561	0.590	3.0*
Dibromomethane	* 0.298	0.292	0.287	0.288	0.276	0.288	2.8*
4-Methyl-2-Pentanone	* 0.210	0.189	0.196	0.219	0.210	0.205	5.9*
cis-1,3-Dichloropropene	* 0.501	0.519	0.527	0.526	0.496	0.514	2.8*
Toluene	* 0.615	0.646	0.635	0.632	0.607	0.627	2.5*
trans-1,3-Dichloropropene	* 0.414	0.432	0.431	0.449	0.420	0.429	3.1*
1,1,2-Trichloroethane	* 0.265	0.263	0.259	0.261	0.248	0.259	2.6*
2-Hexanone	* 0.084	0.104	0.115	0.132	0.136	0.114	18.7*
1,3-Dichloropropane	* 0.523	0.517	0.503	0.512	0.486	0.508	2.8*
Tetrachloroethene	* 0.500	0.501	0.502	0.494	0.478	0.495	2.0*
1,4-Dioxane	* 0.001	0.001	0.000	0.000	0.001	0.001	44.8*
Tetrahydrofuran	* 0.053	0.048	0.046	0.051	0.046	0.049	5.7*

\* Compounds with required minimum RRF and maximum %RSD values.  
 All other compounds must meet a minimum RRF of 0.010.

6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Instrument ID: L                      Calibration Date(s): 02/20/98      02/20/98  
 Heated Purge: (Y/N) N                      Calibration Time(s): 0755                      1038  
 GC Column: DB-624      ID: 0.53      (mm)

LAB FILE ID:	RRF2 =LLO002HV	RRF5 =LLO005HV	RRF10 =LLO010HV	RRF20 =LLO020HV	RRF30 =LLO030HV	RRF	% RSD
COMPOUND	RRF2	RRF5	RRF10	RRF20	RRF30	RRF	% RSD
Dibromochloromethane	* 0.644	0.629	0.626	0.651	0.625	0.635	1.9*
1,2-Dibromoethane	* 0.484	0.484	0.488	0.501	0.483	0.488	1.6*
Chlorobenzene	* 0.944	0.927	0.930	0.918	0.885	0.921	2.4*
1,1,1,2-Tetrachloroethane	* 0.538	0.530	0.528	0.528	0.511	0.527	1.9*
Ethylbenzene	* 1.633	1.655	1.637	1.605	1.536	1.613	2.9*
Xylene (total)	* 0.553	0.589	0.582	0.582	0.559	0.573	2.8*
Styrene	* 0.869	0.911	0.923	0.926	0.892	0.904	2.6*
Bromoform	* 0.407	0.435	0.441	0.466	0.448	0.439	4.9*
Isopropylbenzene	* 1.617	1.648	1.647	1.625	1.545	1.616	2.6*
1,1,2,2-Tetrachloroethane	* 0.594	0.590	0.571	0.598	0.548	0.580	3.6*
1,2,3-Trichloropropane	* 0.423	0.397	0.396	0.414	0.385	0.403	3.8*
Bromobenzene	* 0.576	0.602	0.598	0.604	0.583	0.593	2.1*
n-Propylbenzene	* 0.420	0.444	0.451	0.445	0.432	0.438	2.8*
2-Chlorotoluene	* 0.443	0.451	0.449	0.443	0.430	0.443	1.9*
1,3,5-Trimethylbenzene	* 1.200	1.236	1.230	1.196	1.148	1.202	2.9*
4-Chlorotoluene	* 0.410	0.438	0.424	0.431	0.414	0.423	2.7*
tert-Butylbenzene	* 1.396	1.424	1.420	1.404	1.327	1.394	2.8*
1,2,4-Trimethylbenzene	* 1.236	1.242	1.254	1.240	1.174	1.229	2.6*
sec-Butylbenzene	* 1.794	1.815	1.809	1.785	1.694	1.779	2.8*
p-Isopropyltoluene	* 1.416	1.456	1.461	1.424	1.348	1.421	3.2*
1,3-Dichlorobenzene	* 0.994	1.016	0.986	0.984	0.936	0.983	3.0*
1,4-Dichlorobenzene	* 1.028	1.004	0.996	0.994	0.950	0.994	2.8*
n-Butylbenzene	* 0.308	0.322	0.326	0.317	0.300	0.315	3.4*
1,2-Dichlorobenzene	* 0.878	0.871	0.844	0.830	0.792	0.843	4.1*
1,2-Dibromo-3-Chloropropane	* 0.140	0.116	0.108	0.117	0.112	0.119	10.4*
1,2,4-Trichlorobenzene	* 0.600	0.605	0.604	0.607	0.587	0.601	1.4*
Hexachlorobutadiene	* 0.360	0.351	0.351	0.349	0.336	0.349	2.4*
Naphthalene	* 1.033	1.038	1.006	1.082	1.009	1.034	2.9*
1,2,3-Trichlorobenzene	* 0.600	0.605	0.604	0.607	0.587	0.601	1.4*
1,2-Dichloroethane-d4	* 0.305	0.313	0.298	0.293	0.289	0.300	3.2*
Bromofluorobenzene	* 0.749	0.758	0.760	0.753	0.742	0.752	1.0*
1,2-Dichlorobenzene-d4	* 0.538	0.553	0.553	0.550	0.547	0.548	1.1*

\* Compounds with required minimum RRF and maximum %RSD values.  
 All other compounds must meet a minimum RRF of 0.010.



FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Matrix Spike - Sample No.: LLOICVLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
m- & p-Xylene	20		19	95	60-140
o-Xylene	10		9.4	94	60-140
Dichlorodifluoromethane	10		10	100	60-140
Chloromethane	10		10	100	60-140
Vinyl Chloride	10		9.7	97	60-140
Bromomethane	10		10	100	60-140
Chloroethane	10		10	100	60-140
Trichlorofluoromethane	10		9.8	98	60-140
Acetone	50		34	68	60-140
1,1-Dichloroethene	10		9.4	94	60-140
trans-1,2-Dichloroethene	10		9.9	99	60-140
Carbon Disulfide	10		9.9	99	60-140
Methylene Chloride	10		11	110	60-140
Methyl-t-Butyl Ether	10		12	120	60-140
1,1-Dichloroethane	10		10	100	60-140
cis-1,2-Dichloroethene	10		10	100	60-140
2-Butanone	50		34	68	60-140
2,2-Dichloropropane	10		9.6	96	60-140
Chloroform	10		12	120	60-140
Bromochloromethane	10		11	110	60-140
1,1,1-Trichloroethane	10		10	100	60-140
1,1-Dichloropropene	10		9.7	97	60-140
Carbon Tetrachloride	10		10	100	60-140
1,2-Dichloroethane	10		11	110	60-140
Benzene	10		10	100	60-140
Trichloroethene	10		10	100	60-140
1,2-Dichloropropane	10		10	100	60-140
Bromodichloromethane	10		11	110	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS: \_\_\_\_\_

FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Matrix Spike - Sample No.: LLOICVLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dibromomethane	10		12	120	60-140
4-Methyl-2-Pentanone	50		29	58*	60-140
cis-1,3-Dichloropropene	10		10	100	60-140
Toluene	10		10	100	60-140
trans-1,3-Dichloroprope	10		11	110	60-140
1,1,2-Trichloroethane	10		11	110	60-140
2-Hexanone	50		27	54*	60-140
1,3-Dichloropropane	10		11	110	60-140
Tetrachloroethene	10		9.5	95	60-140
1,4-Dioxane	500		520	104	60-140
Tetrahydrofuran	500		320	64	60-140
Dibromochloromethane	10		11	110	60-140
1,2-Dibromoethane	10		11	110	60-140
Chlorobenzene	10		10	100	60-140
1,1,1,2-Tetrachloroetha	10		11	110	60-140
Ethylbenzene	10		9.6	96	60-140
Xylene (total)	30		29	97	60-140
Styrene	10		9.9	99	60-140
Bromoform	10		11	110	60-140
Isopropylbenzene	10		9.4	94	60-140
1,1,2,2-Tetrachloroetha	10		12	120	60-140
1,2,3-Trichloropropane	10		12	120	60-140
Bromobenzene	10		9.8	98	60-140
n-Propylbenzene	10		9.2	92	60-140
2-Chlorotoluene	10		9.3	93	60-140
1,3,5-Trimethylbenzene	10		9.3	93	60-140
4-Chlorotoluene	10		9.7	97	60-140
tert-Butylbenzene	10		9.1	91	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675

Matrix Spike - Sample No.: LLOICVLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trimethylbenzene	10		8.9	89	60-140
sec-Butylbenzene	10		8.3	83	60-140
p-Isopropyltoluene	10		8.9	89	60-140
1,3-Dichlorobenzene	10		9.4	94	60-140
1,4-Dichlorobenzene	10		10	100	60-140
n-Butylbenzene	10		8.9	89	60-140
1,2-Dichlorobenzene	10		10	100	60-140
1,2-Dibromo-3-Chloropro	10		13	130	60-140
1,2,4-Trichlorobenzene	10		8.8	88	60-140
Hexachlorobutadiene	10		7.8	78	60-140
Naphthalene	10		11	110	60-140
1,2,3-Trichlorobenzene	10		8.8	88	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 2 out of 68 outside limits

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LLOICVLCS

Lab Name: ITS ENVIRONMENTAL Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68675

Matrix: (soil/water) WATER Lab Sample ID: LLOICVLCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LLO010QV

Level: (low/med) LOW Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/20/98

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	
74-87-3	Chloromethane	10	
75-01-4	Vinyl Chloride	9.7	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	9.8	
67-64-1	Acetone	34	
75-35-4	1,1-Dichloroethene	9.4	
156-60-5	trans-1,2-Dichloroethene	9.9	
75-15-0	Carbon Disulfide	9.9	
75-09-2	Methylene Chloride	11	
1634-04-4	Methyl-t-Butyl Ether	12	
75-34-3	1,1-Dichloroethane	10	
156-59-2	cis-1,2-Dichloroethene	10	
78-93-3	2-Butanone	34	
590-20-7	2,2-Dichloropropane	9.6	
67-66-3	Chloroform	12	
74-97-5	Bromochloromethane	11	
71-55-6	1,1,1-Trichloroethane	10	
563-58-6	1,1-Dichloropropene	9.7	
56-23-5	Carbon Tetrachloride	10	
107-06-2	1,2-Dichloroethane	11	
71-43-2	Benzene	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
75-27-4	Bromodichloromethane	11	
74-95-3	Dibromomethane	12	
108-10-1	4-Methyl-2-Pentanone	29	
10061-01-5	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	11	
591-78-6	2-Hexanone	27	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LLOICVLCS

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675

Matrix: (soil/water) WATER                      Lab Sample ID: LLOICVLCS

Sample wt/vol:              5.000 (g/mL) ML                      Lab File ID: LLO010QV

Level:      (low/med)      LOW                      Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_                      Date Analyzed: 02/20/98

GC Column: DB-624      ID: 0.53 (mm)                      Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)                      Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	11	
127-18-4	Tetrachloroethene	9.5	
123-91-1	1,4-Dioxane	520	
109-99-9	Tetrahydrofuran	320	
124-48-1	Dibromochloromethane	11	
106-93-4	1,2-Dibromoethane	11	
108-90-7	Chlorobenzene	10	
630-20-6	1,1,1,2-Tetrachloroethane	11	
100-41-4	Ethylbenzene	9.6	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	9.9	
75-25-2	Bromoform	11	
98-82-8	Isopropylbenzene	9.4	
79-34-5	1,1,2,2-Tetrachloroethane	12	
96-18-4	1,2,3-Trichloropropane	12	
108-86-1	Bromobenzene	9.8	
103-65-1	n-Propylbenzene	9.2	
95-49-8	2-Chlorotoluene	9.3	
108-67-8	1,3,5-Trimethylbenzene	9.3	
106-43-4	4-Chlorotoluene	9.7	
98-06-6	tert-Butylbenzene	9.1	
95-63-6	1,2,4-Trimethylbenzene	8.9	
135-98-8	sec-Butylbenzene	8.3	
99-87-6	p-Isopropyltoluene	8.9	
541-73-1	1,3-Dichlorobenzene	9.4	
106-46-7	1,4-Dichlorobenzene	10	
104-51-8	n-Butylbenzene	8.9	
95-50-1	1,2-Dichlorobenzene	10	
96-12-8	1,2-Dibromo-3-Chloropropane	13	
120-82-1	1,2,4-Trichlorobenzene	8.8	
87-68-3	Hexachlorobutadiene	7.8	
91-20-3	Naphthalene	11	
87-61-6	1,2,3-Trichlorobenzene	8.8	

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Instrument ID: L                      Calibration Date: 03/25/98      Time: 2133  
 Lab File ID: LLO010BHV      Init. Calib. Date(s): 02/20/98      02/20/98  
 Heated Purge: (Y/N) N                      Init. Calib. Times:      0755                      1038  
 GC Column: DB-624      ID: 0.53      (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.456	0.468	0.05	-2.6	30.0
Chloromethane	0.220	0.202	0.192	8.2	30.0
Vinyl Chloride	0.259	0.239	0.05	7.7	30.0
Bromomethane	0.199	0.170	0.05	14.6	30.0
Chloroethane	0.139	0.109	0.05	21.6	30.0
Trichlorofluoromethane	0.585	0.603	0.05	-3.1	30.0
Acetone	0.038	0.040	0.02	-5.3	30.0
1,1-Dichloroethene	0.271	0.265	0.05	2.2	30.0
trans-1,2-Dichloroethene	0.301	0.292	0.05	3.0	30.0
Carbon Disulfide	0.801	0.746	0.05	6.9	30.0
Methylene Chloride	0.276	0.261	0.05	5.4	30.0
Methyl-t-Butyl Ether	0.623	0.608	0.05	2.4	30.0
1,1-Dichloroethane	0.495	0.479	0.3	3.2	30.0
cis-1,2-Dichloroethene	0.310	0.302	0.05	2.6	30.0
2-Butanone	0.016	0.018	0.02	-12.5	30.0
2,2-Dichloropropane	0.510	0.538	0.05	-5.5	30.0
Chloroform	0.622	0.610	0.05	1.9	30.0
Bromochloromethane	0.203	0.200	0.05	1.5	30.0
1,1,1-Trichloroethane	0.553	0.561	0.05	-1.4	30.0
1,1-Dichloropropene	0.484	0.475	0.05	1.8	30.0
Carbon Tetrachloride	0.538	0.546	0.05	-1.5	30.0
1,2-Dichloroethane	0.338	0.346	0.05	-2.4	30.0
Benzene	0.944	0.919	0.05	2.6	30.0
Trichloroethene	0.376	0.377	0.05	-0.3	30.0
1,2-Dichloropropane	0.336	0.317	0.05	5.6	30.0
Bromodichloromethane	0.590	0.594	0.05	-0.7	30.0
Dibromomethane	0.288	0.290	0.05	-0.7	30.0
4-Methyl-2-Pentanone	0.205	0.194	0.02	5.4	30.0
cis-1,3-Dichloropropene	0.514	0.508	0.05	1.2	30.0
Toluene	0.627	0.615	0.05	1.9	30.0
trans-1,3-Dichloropropene	0.429	0.431	0.05	-0.5	30.0
1,1,2-Trichloroethane	0.259	0.257	0.05	0.8	30.0
2-Hexanone	0.114	0.101	0.02	11.4	30.0
1,3-Dichloropropane	0.508	0.495	0.05	2.6	30.0
Tetrachloroethene	0.495	0.518	0.05	-4.6	30.0
1,4-Dioxane	0.001	0.001	0.05	0.0	30.0
Tetrahydrofuran	0.049	0.048	0.05	2.0	30.0

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Instrument ID: L                      Calibration Date: 03/25/98      Time: 2133  
 Lab File ID: LLO010BHV              Init. Calib. Date(s): 02/20/98      02/20/98  
 Heated Purge: (Y/N) N              Init. Calib. Times:      0755                      1038  
 GC Column: DB-624      ID: 0.53      (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Dibromochloromethane	0.635	0.622	0.05	2.0	30.0
1,2-Dibromoethane	0.488	0.502	0.05	-2.9	30.0
Chlorobenzene	0.921	0.914	0.3	0.8	30.0
1,1,1,2-Tetrachloroethane	0.527	0.538	0.05	-2.1	30.0
Ethylbenzene	1.613	1.611	0.05	0.1	30.0
Xylene (total)	0.573	0.563	0.05	1.7	30.0
Styrene	0.904	0.918	0.05	-1.5	30.0
Bromoform	0.439	0.454	0.25	-3.4	30.0
Isopropylbenzene	1.616	1.652	0.05	-2.2	30.0
1,1,2,2-Tetrachloroethane	0.580	0.595	0.3	-2.6	30.0
1,2,3-Trichloropropane	0.403	0.410	0.05	-1.7	30.0
Bromobenzene	0.593	0.608	0.05	-2.5	30.0
n-Propylbenzene	0.438	0.451	0.05	-3.0	30.0
2-Chlorotoluene	0.443	0.431	0.05	2.7	30.0
1,3,5-Trimethylbenzene	1.202	1.252	0.05	-4.2	30.0
4-Chlorotoluene	0.423	0.427	0.05	-0.9	30.0
tert-Butylbenzene	1.394	1.447	0.05	-3.8	30.0
1,2,4-Trimethylbenzene	1.229	1.201	0.05	2.3	30.0
sec-Butylbenzene	1.779	1.799	0.05	-1.1	30.0
p-Isopropyltoluene	1.421	1.517	0.05	-6.8	30.0
1,3-Dichlorobenzene	0.983	0.980	0.05	0.3	30.0
1,4-Dichlorobenzene	0.994	1.042	0.05	-4.8	30.0
n-Butylbenzene	0.315	0.345	0.05	-9.5	30.0
1,2-Dichlorobenzene	0.843	0.888	0.05	-5.3	30.0
1,2-Dibromo-3-Chloropropane	0.119	0.118	0.02	0.8	30.0
1,2,4-Trichlorobenzene	0.601	0.638	0.05	-6.2	30.0
Hexachlorobutadiene	0.349	0.377	0.05	-8.0	30.0
Naphthalene	1.034	1.090	0.05	-5.4	30.0
1,2,3-Trichlorobenzene	0.601	0.575	0.05	4.3	30.0
1,2-Dichloroethane-d4	0.300	0.312	0.05	-4.0	30.0
Bromofluorobenzene	0.752	0.794	0.05	-5.6	30.0
1,2-Dichlorobenzene-d4	0.548	0.593	0.05	-8.2	30.0

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 68675  
 Instrument ID: L                      Calibration Date: 03/31/98    Time: 1934  
 Lab File ID: LLO010CHV                      Init. Calib. Date(s): 02/20/98    02/20/98  
 Heated Purge: (Y/N) N                      Init. Calib. Times:    0755                      1038  
 GC Column: DB-624    ID: 0.53    (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.456	0.478	0.05	-4.8	30.0
Chloromethane	0.220	0.207	0.192	5.9	30.0
Vinyl Chloride	0.259	0.247	0.05	4.6	30.0
Bromomethane	0.199	0.157	0.05	21.1	30.0
Chloroethane	0.139	0.115	0.05	17.3	30.0
Trichlorofluoromethane	0.585	0.610	0.05	-4.3	30.0
Acetone	0.038	0.044	0.02	-15.8	30.0
1,1-Dichloroethene	0.271	0.269	0.05	0.7	30.0
trans-1,2-Dichloroethene	0.301	0.298	0.05	1.0	30.0
Carbon Disulfide	0.801	0.774	0.05	3.4	30.0
Methylene Chloride	0.276	0.273	0.05	1.1	30.0
Methyl-t-Butyl Ether	0.623	0.641	0.05	-2.9	30.0
1,1-Dichloroethane	0.495	0.495	0.3	0.0	30.0
cis-1,2-Dichloroethene	0.310	0.306	0.05	1.3	30.0
2-Butanone	0.016	0.017	0.02	-6.2	30.0
2,2-Dichloropropane	0.510	0.551	0.05	-8.0	30.0
Chloroform	0.622	0.626	0.05	-0.6	30.0
Bromochloromethane	0.203	0.204	0.05	-0.5	30.0
1,1,1-Trichloroethane	0.553	0.574	0.05	-3.8	30.0
1,1-Dichloropropene	0.484	0.493	0.05	-1.8	30.0
Carbon Tetrachloride	0.538	0.566	0.05	-5.2	30.0
1,2-Dichloroethane	0.338	0.366	0.05	-8.3	30.0
Benzene	0.944	0.939	0.05	0.5	30.0
Trichloroethene	0.376	0.389	0.05	-3.4	30.0
1,2-Dichloropropane	0.336	0.334	0.05	0.6	30.0
Bromodichloromethane	0.590	0.616	0.05	-4.4	30.0
Dibromomethane	0.288	0.295	0.05	-2.4	30.0
4-Methyl-2-Pentanone	0.205	0.209	0.02	-2.0	30.0
cis-1,3-Dichloropropene	0.514	0.520	0.05	-1.2	30.0
Toluene	0.627	0.637	0.05	-1.6	30.0
trans-1,3-Dichloropropene	0.429	0.449	0.05	-4.7	30.0
1,1,2-Trichloroethane	0.259	0.267	0.05	-3.1	30.0
2-Hexanone	0.114	0.122	0.02	-7.0	30.0
1,3-Dichloropropane	0.508	0.531	0.05	-4.5	30.0
Tetrachloroethene	0.495	0.525	0.05	-6.1	30.0
1,4-Dioxane	0.001	0.001	0.05	0.0	30.0
Tetrahydrofuran	0.049	0.053	0.05	-8.2	30.0



FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Instrument ID: L                      Calibration Date: 03/31/98      Time: 1934  
 Lab File ID: LLO010CHV                      Init. Calib. Date(s): 02/20/98      02/20/98  
 Heated Purge: (Y/N) N                      Init. Calib. Times:      0755                      1038  
 GC Column: DB-624      ID: 0.53      (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Dibromochloromethane	0.635	0.649	0.05	-2.2	30.0
1,2-Dibromoethane	0.488	0.524	0.05	-7.4	30.0
Chlorobenzene	0.921	0.956	0.3	-3.8	30.0
1,1,1,2-Tetrachloroethane	0.527	0.548	0.05	-4.0	30.0
Ethylbenzene	1.613	1.610	0.05	0.2	30.0
Xylene (total)	0.573	0.573	0.05	0.0	30.0
Styrene	0.904	0.930	0.05	-2.9	30.0
Bromoform	0.439	0.479	0.25	-9.1	30.0
Isopropylbenzene	1.616	1.688	0.05	-4.4	30.0
1,1,2,2-Tetrachloroethane	0.580	0.613	0.3	-5.7	30.0
1,2,3-Trichloropropane	0.403	0.432	0.05	-7.2	30.0
Bromobenzene	0.593	0.600	0.05	-1.2	30.0
n-Propylbenzene	0.438	0.464	0.05	-5.9	30.0
2-Chlorotoluene	0.443	0.436	0.05	1.6	30.0
1,3,5-Trimethylbenzene	1.202	1.276	0.05	-6.2	30.0
4-Chlorotoluene	0.423	0.445	0.05	-5.2	30.0
tert-Butylbenzene	1.394	1.484	0.05	-6.4	30.0
1,2,4-Trimethylbenzene	1.229	1.271	0.05	-3.4	30.0
sec-Butylbenzene	1.779	1.878	0.05	-5.6	30.0
p-Isopropyltoluene	1.421	1.566	0.05	-10.2	30.0
1,3-Dichlorobenzene	0.983	1.025	0.05	-4.3	30.0
1,4-Dichlorobenzene	0.994	1.064	0.05	-7.0	30.0
n-Butylbenzene	0.315	0.352	0.05	-11.7	30.0
1,2-Dichlorobenzene	0.843	0.898	0.05	-6.5	30.0
1,2-Dibromo-3-Chloropropane	0.119	0.126	0.02	-5.9	30.0
1,2,4-Trichlorobenzene	0.601	0.649	0.05	-8.0	30.0
Hexachlorobutadiene	0.349	0.384	0.05	-10.0	30.0
Naphthalene	1.034	1.150	0.05	-11.2	30.0
1,2,3-Trichlorobenzene	0.601	0.585	0.05	2.7	30.0
1,2-Dichloroethane-d4	0.300	0.323	0.05	-7.7	30.0
Bromofluorobenzene	0.752	0.797	0.05	-6.0	30.0
1,2-Dichlorobenzene-d4	0.548	0.595	0.05	-8.6	30.0

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 68675  
 Instrument ID: L                      Calibration Date: 04/06/98    Time: 1023  
 Lab File ID: LLO010D2HV    Init. Calib. Date(s): 02/20/98    02/20/98  
 Heated Purge: (Y/N) N                      Init. Calib. Times:    0755                      1038  
 GC Column: DB-624    ID: 0.53    (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.456	0.465	0.05	-2.0	30.0
Chloromethane	0.220	0.228	0.192	-3.6	30.0
Vinyl Chloride	0.259	0.261	0.05	-0.8	30.0
Bromomethane	0.199	0.211	0.05	-6.0	30.0
Chloroethane	0.139	0.166	0.05	-19.4	30.0
Trichlorofluoromethane	0.585	0.581	0.05	0.7	30.0
Acetone	0.038	0.037	0.02	2.6	30.0
1,1-Dichloroethene	0.271	0.279	0.05	-3.0	30.0
trans-1,2-Dichloroethene	0.301	0.312	0.05	-3.6	30.0
Carbon Disulfide	0.801	0.833	0.05	-4.0	30.0
Methylene Chloride	0.276	0.276	0.05	0.0	30.0
Methyl-t-Butyl Ether	0.623	0.642	0.05	-3.0	30.0
1,1-Dichloroethane	0.495	0.489	0.3	1.2	30.0
cis-1,2-Dichloroethene	0.310	0.313	0.05	-1.0	30.0
2-Butanone	0.016	0.015	0.02	6.2	30.0
2,2-Dichloropropane	0.510	0.527	0.05	-3.3	30.0
Chloroform	0.622	0.596	0.05	4.2	30.0
Bromochloromethane	0.203	0.201	0.05	1.0	30.0
1,1,1-Trichloroethane	0.553	0.552	0.05	0.2	30.0
1,1-Dichloropropene	0.484	0.477	0.05	1.4	30.0
Carbon Tetrachloride	0.538	0.523	0.05	2.8	30.0
1,2-Dichloroethane	0.338	0.334	0.05	1.2	30.0
Benzene	0.944	0.950	0.05	-0.6	30.0
Trichloroethene	0.376	0.381	0.05	-1.3	30.0
1,2-Dichloropropane	0.336	0.331	0.05	1.5	30.0
Bromodichloromethane	0.590	0.603	0.05	-2.2	30.0
Dibromomethane	0.288	0.289	0.05	-0.3	30.0
4-Methyl-2-Pentanone	0.205	0.208	0.02	-1.5	30.0
cis-1,3-Dichloropropene	0.514	0.529	0.05	-2.9	30.0
Toluene	0.627	0.637	0.05	-1.6	30.0
trans-1,3-Dichloropropene	0.429	0.431	0.05	-0.5	30.0
1,1,2-Trichloroethane	0.259	0.262	0.05	-1.2	30.0
2-Hexanone	0.114	0.123	0.02	-7.9	30.0
1,3-Dichloropropane	0.508	0.512	0.05	-0.8	30.0
Tetrachloroethene	0.495	0.511	0.05	-3.2	30.0
1,4-Dioxane	0.001		0.05	100.0	30.0
Tetrahydrofuran	0.049	0.051	0.05	-4.1	30.0

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Instrument ID: L                      Calibration Date: 04/06/98      Time: 1023  
 Lab File ID: LLO010D2HV      Init. Calib. Date(s): 02/20/98      02/20/98  
 Heated Purge: (Y/N) N                      Init. Calib. Times:      0755                      1038  
 GC Column: DB-624      ID: 0.53      (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Dibromochloromethane	0.635	0.670	0.05	-5.5	30.0
1,2-Dibromoethane	0.488	0.532	0.05	-9.0	30.0
Chlorobenzene	0.921	0.978	0.3	-6.2	30.0
1,1,1,2-Tetrachloroethane	0.527	0.559	0.05	-6.1	30.0
Ethylbenzene	1.613	1.736	0.05	-7.6	30.0
Xylene (total)	0.573	0.604	0.05	-5.4	30.0
Styrene	0.904	0.977	0.05	-8.1	30.0
Bromoform	0.439	0.493	0.25	-12.3	30.0
Isopropylbenzene	1.616	1.736	0.05	-7.4	30.0
1,1,2,2-Tetrachloroethane	0.580	0.626	0.3	-7.9	30.0
1,2,3-Trichloropropane	0.403	0.437	0.05	-8.4	30.0
Bromobenzene	0.593	0.624	0.05	-5.2	30.0
n-Propylbenzene	0.438	0.468	0.05	-6.8	30.0
2-Chlorotoluene	0.443	0.441	0.05	0.4	30.0
1,3,5-Trimethylbenzene	1.202	1.299	0.05	-8.1	30.0
4-Chlorotoluene	0.423	0.436	0.05	-3.1	30.0
tert-Butylbenzene	1.394	1.478	0.05	-6.0	30.0
1,2,4-Trimethylbenzene	1.229	1.279	0.05	-4.1	30.0
sec-Butylbenzene	1.779	1.887	0.05	-6.1	30.0
p-Isopropyltoluene	1.421	1.534	0.05	-8.0	30.0
1,3-Dichlorobenzene	0.983	1.005	0.05	-2.2	30.0
1,4-Dichlorobenzene	0.994	1.076	0.05	-8.2	30.0
n-Butylbenzene	0.315	0.346	0.05	-9.8	30.0
1,2-Dichlorobenzene	0.843	0.900	0.05	-6.8	30.0
1,2-Dibromo-3-Chloropropane	0.119	0.116	0.02	2.5	30.0
1,2,4-Trichlorobenzene	0.601	0.641	0.05	-6.6	30.0
Hexachlorobutadiene	0.349	0.371	0.05	-6.3	30.0
Naphthalene	1.034	1.069	0.05	-3.4	30.0
1,2,3-Trichlorobenzene	0.601	0.561	0.05	6.6	30.0
1,2-Dichloroethane-d4	0.300	0.299	0.05	0.3	30.0
Bromofluorobenzene	0.752	0.647	0.05	14.0	30.0
1,2-Dichlorobenzene-d4	0.548	0.598	0.05	-9.1	30.0

FORM 8  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Lab File ID (Standard): LLO030HV                      Date Analyzed: 02/20/98  
 Instrument ID: L    Time Analyzed: 1038  
 GC Column: DB-624      ID: 0.53 (mm)                      Heated Purge: (Y/N) N

	IS1 (DCB)		IS2		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	144318	20.13	260286	8.87	214940	14.56
UPPER LIMIT	288636	20.63	520572	9.37	429880	15.06
LOWER LIMIT	72159	19.63	130143	8.37	107470	14.06
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 LLOICVLCS	76052	20.15	144088	8.86	119523	14.57
02						
03						
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20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4  
 IS2 = Fluorobenzene  
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area  
 AREA LOWER LIMIT = - 50% of internal standard area  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits.

FORM 8  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Lab File ID (Standard): LLO010BHV                      Date Analyzed: 03/25/98  
 Instrument ID: L    Time Analyzed: 2133  
 GC Column: DB-624      ID: 0.53 (mm)                      Heated Purge: (Y/N) N

	IS1 (DCB) AREA #	RT #	IS2 AREA #	RT #	IS3 (CBZ) AREA #	RT #
12 HOUR STD	119027	20.14	212525	8.84	172656	14.55
UPPER LIMIT	238054	20.64	425050	9.34	345312	15.05
LOWER LIMIT	59514	19.64	106262	8.34	86328	14.05
CLIENT SAMPLE NO.						
01 VBLKF1	107525	20.15	218062	8.86	173255	14.56
02 AL130	107808	20.15	219489	8.86	171231	14.56
03 AL131	105612	20.13	209722	8.86	167256	14.54
04 AL132	104640	20.15	211531	8.86	167909	14.56
05 0.5LLOBLCS	109205	20.15	209452	8.86	166160	14.56
06						
07						
08						
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11						
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19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4  
 IS2 = Fluorobenzene  
 IS3 (CBZ) = Chlorobenzene-d5

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 RT UPPER LIMIT = + 0.50 minutes of internal standard RT  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits.

FORM 8  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Lab File ID (Standard): LLO010CHV                      Date Analyzed: 03/31/98  
 Instrument ID: L    Time Analyzed: 1934  
 GC Column: DB-624      ID: 0.53 (mm)                      Heated Purge: (Y/N) N

	IS1 (DCB)		IS2		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	119468	20.14	213683	8.88	174766	14.57
UPPER LIMIT	238936	20.64	427366	9.38	349532	15.07
LOWER LIMIT	59734	19.64	106842	8.38	87383	14.07
CLIENT						
SAMPLE NO.						
01 MBS	115203	20.14	226991	8.86	182227	14.54
02 0.5LLOCLCS	110639	20.14	222400	8.86	173929	14.56
03 VBLKH5	110813	20.15	232447	8.86	177723	14.56
04 AL153	114532	20.13	237579	8.86	190727	14.54
05 AL154	103345	20.13	220493	8.86	173509	14.54
06 AL142	103696	20.13	219052	8.86	171176	14.56
07 AL155	104139	20.15	215913	8.84	173529	14.56
08 AL148	102892	20.15	210075	8.86	166420	14.56
09 AL162	107259	20.15	211616	8.87	174173	14.56
10 AL163	103562	20.15	213284	8.86	172834	14.56
11 AL151	102461	20.15	208288	8.87	161133	14.56
12 AL159	103475	20.15	209617	8.87	172337	14.56
13 AL141	102629	20.15	207988	8.87	166266	14.56
14 AL158	96468	20.15	206919	8.86	165621	14.57
15 AL138	101451	20.15	204743	8.86	167588	14.56
16 AL140	98891	20.15	207394	8.87	163111	14.56
17 AL141MS	112593	20.13	202380	8.86	165614	14.57
18 AL141MSD	112060	20.14	208755	8.86	169560	14.55
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4  
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 IS3 (CBZ) = Chlorobenzene-d5

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 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits.

FORM 8  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68675  
 Lab File ID (Standard): LLO010D2HV              Date Analyzed: 04/06/98  
 Instrument ID: L                                      Time Analyzed: 1023  
 GC Column: DB-624      ID: 0.53 (mm)              Heated Purge: (Y/N) N

	IS1 (DCB) AREA #	RT #	IS2 AREA #	RT #	IS3 (CBZ) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	130415	20.14	263479	8.88	200522	14.57
UPPER LIMIT	260830	20.64	526958	9.38	401044	15.07
LOWER LIMIT	65208	19.64	131740	8.38	100261	14.07
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 0.5LLODLCS	124241	20.14	253599	8.88	197941	14.56
02 VBLKI8	118086	20.15	255780	8.88	188677	14.57
03 AL134	107850	20.15	221459	8.87	174588	14.56
04 AL164	105304	20.15	205565	8.87	168498	14.56
05 AL146	132976	20.15	230374	8.86	192369	14.57
06 AL149	114316	20.15	208926	8.87	174789	14.56
07						
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20						
21						
22						

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 AREA LOWER LIMIT = - 50% of internal standard area  
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 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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 \* Values outside of QC limits.



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**2. Sample Delivery Group No. 68755**





**Intertek Testing Services**  
**Environmental Laboratories**

**SAMPLE DATA SUMMARY PACKAGE**

**CONTRACT:** 98011  
**CASE NO:** 98011  
**SDG NO:** 68755



CONFIDENTIAL



DEPARTMENT OF DEFENSE  
INTEGRITY TESTING SERVICES

# ITS Intertek Testing Services Environmental Laboratories

April 29, 1998

Mr. Mike Duchesneau  
Parsons Engineering Science  
30 Dan Road  
Canton, MA 02021

Re: Laboratory Project No. 98011  
Project Name: ASH Quarterly 98  
Case No.: 98011; SDG 68755

Dear Mr. Duchesneau:

Enclosed are the analytical results of samples received by ITS Environmental Laboratories on March 31, 1998. Laboratory numbers have been assigned and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 03/31/98 ETR No: 68755			
354998	AL136	03/28/98	Water
354999	AL136F	03/28/98	Filtrate
355000	AL156	03/28/98	Water
355001	AL156F	03/28/98	Filtrate
355002	AL133	03/28/98	Water
355003	AL133F	03/28/98	Filtrate
355006	AL161	03/29/98	Water
355007	AL135	03/29/98	Water
355008	AL135F	03/29/98	Filtrate
355009	AL147	03/28/98	Water
355010	AL147F	03/28/98	Filtrate
355011	AL145	03/29/98	Water
355012	AL145F	03/29/98	Filtrate
355013	AL139	03/29/98	Water
355013MS	AL139MS	03/29/98	Water
355013MD	AL139MSD	03/29/98	Water
355013DP	AL139REP	03/29/98	Water
355014	AL139F	03/29/98	Filtrate
355015	AL160	03/29/98	Water
355016	AL160F	03/29/98	Filtrate
355017	VSBLK01	03/31/98	Water
355018	MBS		Liquid

Search  
Analysis  
Results

KCS

Intertek Testing Services NA Inc.  
55 South Park Drive Colchester, VT 05446  
Telephone (802) 655-1203 Fax (802) 655-1248

Mr. Mike Duchesneau  
April 29, 1998  
Page 2

The matrix spike recoveries of selenium and thallium for the sample labeled AL139 were outside the established control limit. The relative percent difference for selenium in the duplicate analysis and the selenium post spike recovery performed on the same sample were also outside the control limits. The data has been qualified accordingly.

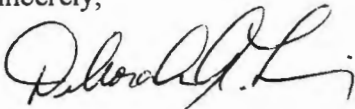
The original volatile organic analysis of the sample labeled AL156 required a dilution analysis due to the concentration of cis-1,2-dichloroethene detected. Both the original and the dilution analysis have been submitted.

In the original volatile organic analysis of sample labeled AL161, cis-1,2-dichloroethene was detected at a level that exceeded the calibration. A dilution analysis was performed using a second sample vial. In the dilution analysis, no target analytes were detected. Using a third vial, a more concentrated analysis was performed. Again, no target analytes were detected in the third analysis. A fourth vial which was analyzed undiluted also exhibited no target analytes. The fourth analysis labeled AL161RE was analyzed one day beyond the established holding time. The original analysis and the fourth analysis have been submitted. Since four vials were labeled AL161 and typically only 3 vials were collected for each sample, it is probable that one of the vials was mislabeled.

In the volatile organic analysis, a holding or storage blank prepared with reagent water was analyzed with these samples. The data for the holding blank which was labeled VSBLK01 has been provided.

If there are any questions regarding this submittal, please contact Chris A. Ouellette at (802) 655-1203.

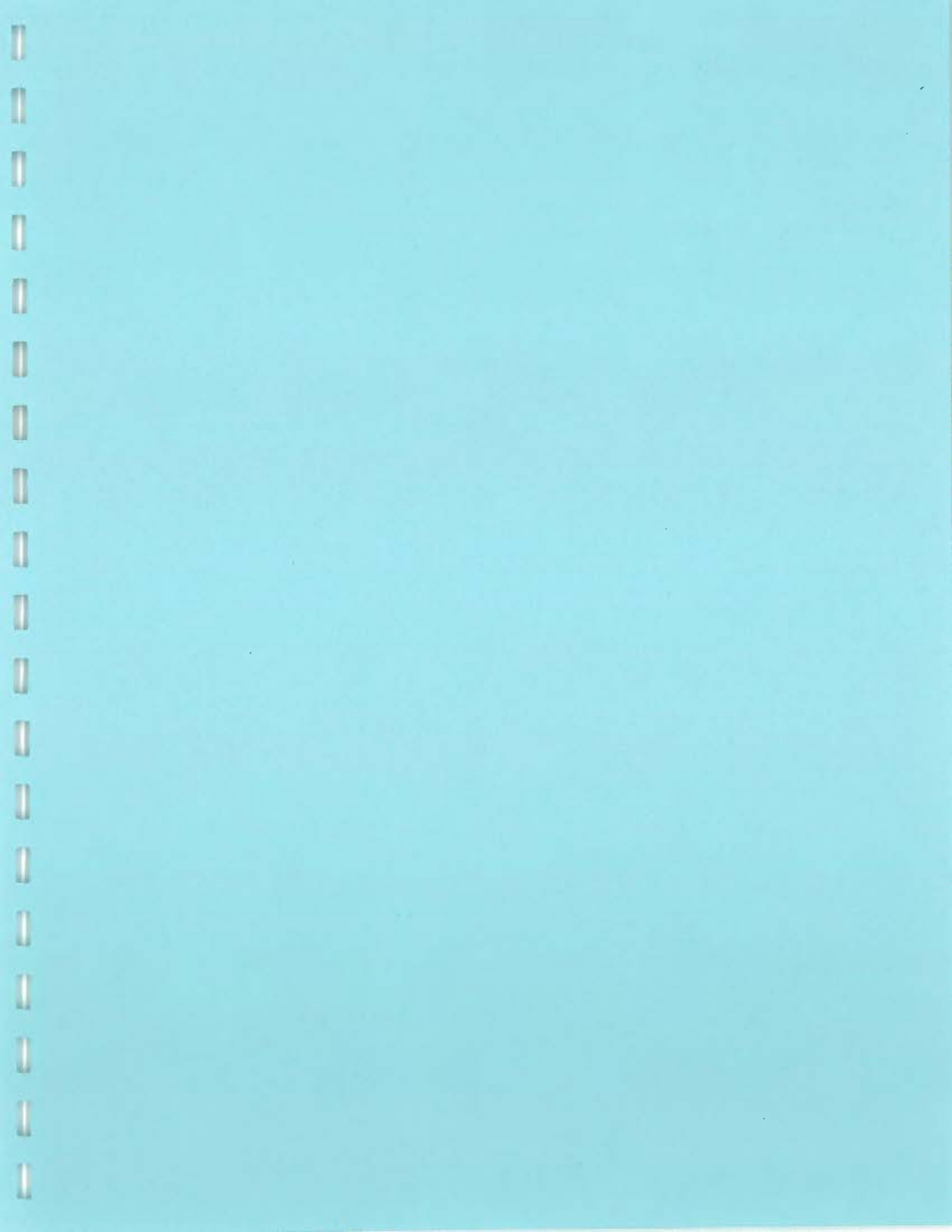
Sincerely,



Deborah A. Loring  
Laboratory Director

DAL/cga  
Enclosure









**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Attention : Mike Duchesneau

Date : 04/29/98  
ETR Number : 68755  
Project No.: 98011  
No. Samples: 24  
Arrived : 03/31/98  
P.O. Number: 73076930000

Page 1

Case:98011 SDG:68755 ASH Quarterly

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
354998	AL136:03/28/98 @1650(Water)	
310.1	Alkalinity (as CaCO3)	254
300.0	Chloride	22.1
300.0	Sulfate	128
353.2	Nitrate/Nitrite Nitrogen	0.78
354999	AL136F:03/28/98 @1650(Filtrate)	
9060	Total Organic Carbon	1.8
355000	AL156:03/28/98 @1600(Water)	
310.1	Alkalinity (as CaCO3)	334
300.0	Chloride	115
300.0	Sulfate	458
353.2	Nitrate/Nitrite Nitrogen	0.18
355001	AL156F:03/28/98 @1600(Filtrate)	
9060	Total Organic Carbon	2.4
355002	AL133:03/28/98 @1130(Water)	
310.1	Alkalinity (as CaCO3)	244
300.0	Chloride	117
300.0	Sulfate	218
353.2	Nitrate/Nitrite Nitrogen	0.63
355003	AL133F:03/28/98 @1130(Filtrate)	
9060	Total Organic Carbon	1.8
355007	AL135:03/29/98 @1300(Water)	
310.1	Alkalinity (as CaCO3)	368
300.0	Chloride	10.9

< Cont. Next Page >



**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Date : 04/29/98  
ETR Number : 68755  
Project No.: 98011  
No. Samples: 24  
Arrived : 03/31/98  
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Attention : Mike Duchesneau

Page 2

Case:98011 SDG:68755 ASH Quarterly

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
355007	AL135:03/29/98 @1300(Water)	
300.0	Sulfate	140
353.2	Nitrate/Nitrite Nitrogen	0.14
355008	AL135F:03/29/98 @1300(Filtrate)	
9060	Total Organic Carbon	4.3
355009	AL147:03/28/98 @1305(Water)	
310.1	Alkalinity (as CaCO3)	276
300.0	Chloride	31.7
300.0	Sulfate	144
353.2	Nitrate/Nitrite Nitrogen	<0.01
355010	AL147F:03/28/98 @1305(Filtrate)	
9060	Total Organic Carbon	2.6
355011	AL145:03/29/98 @1155(Water)	
310.1	Alkalinity (as CaCO3)	202
300.0	Chloride	414
300.0	Sulfate	841
353.2	Nitrate/Nitrite Nitrogen	0.09
355012	AL145F:03/29/98 @1155(Filtrate)	
9060	Total Organic Carbon	7.3
355013	AL139:03/29/98 @1020(Water)	
310.1	Alkalinity (as CaCO3)	308
300.0	Chloride	13.5
300.0	Sulfate	119
353.2	Nitrate/Nitrite Nitrogen	0.69

< Cont. Next Page >

**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Attention : Mike Duchesneau

Date : 04/29/98  
ETR Number : 68755  
Project No.: 98011  
No. Samples: 24  
Arrived : 03/31/98  
P.O. Number: 73076930000

Page 3

Case:98011 SDG:68755 ASH Quarterly

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater. All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
355014	AL139F:03/29/98 @1020(Filtrate) 9060 Total Organic Carbon	1.9
355015	AL160:03/29/98 @1020(Water) 310.1 Alkalinity (as CaCO3) 300.0 Chloride 300.0 Sulfate 353.2 Nitrate/Nitrite Nitrogen	310 14.3 121 0.71
355016	AL160F:03/29/98 @1020(Filtrate) 9060 Total Organic Carbon	2.2

< Last Page >

Submitted By :

Aquatec Inc.

## Quality Control Summary

ETR No: 68755  
 Project No: 98011  
 SDG No: 68755  
 Units: mg/L

Parameter	Date Analyzed	Method Preparation Blank	Laboratory Control Sample		
			Reported Value	True Value	Percent Recovery
Alkalinity (as CaCO <sub>3</sub> )	03/31/98	< 1	130	126	103.2
Alkalinity (as CaCO <sub>3</sub> )	04/01/98	< 1	132	126	104.8
Chloride by IC	04/06/98	< 0.1	5.18	5.00	103.6
Chloride by IC	04/07/98	< 0.1	4.95	5.00	99.0
Nitrate/Nitrite-Nitrogen	04/06/98	< 0.01	6.90	7.32	94.3
Sulfate by IC	04/06/98	< 0.1	10.6	10.0	106.0
Sulfate by IC	04/07/98	< 0.1	10.3	10.0	103.0
Total Organic Carbon	04/03/98	< 0.5	68.0	68.0	100.0
Total Organic Carbon	04/06/98	< 0.5	68.1	68.0	100.1

Reviewed By: TPD  
 Date: 4/28/98





U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011 SAS No.: \_\_\_\_\_ SDG No.:68755\_

SOW No.: ILM03.0

EPA Sample No.	Lab Sample ID
AL133	355002
AL135	355007
AL139	355013
AL139D	355013DP
AL139S	355013MS
AL145	355011
AL147	355009
AL160	355015
AL161	355006

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: \_\_\_\_\_ Name: \_\_\_\_\_

Date: \_\_\_\_\_ Title: \_\_\_\_\_

U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL133

Lab Name: ITS\_ENVIRONMENTAL Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68755

Matrix (soil/water): WATER Lab Sample ID: 355002

Level (low/med): LOW Date Received: 03/31/98

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	131	B		P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	65.1	B		P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.70	U		P
7440-70-2	Calcium	176000			P
7440-47-3	Chromium	7.8	B		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	7.7	B		P
7439-89-6	Iron	582			P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	39900			P
7439-96-5	Manganese	317			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	U		P
7440-09-7	Potassium	12600			P
7782-49-2	Selenium	3.1	U	N*	P
7440-22-4	Silver	3.2	B		P
7440-23-5	Sodium	39500			P
7440-28-0	Thallium	7.0	B	N	P
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	9.5	B		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL135

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Matrix (soil/water): WATER Lab Sample ID: 355007

Level (low/med): LOW\_\_\_ Date Received: 03/31/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	31.2	B		P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	39.6	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.70	U		P
7440-70-2	Calcium	161000			P
7440-47-3	Chromium	2.4	B		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	8.3	B		P
7439-89-6	Iron	186			P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	21900			P
7439-96-5	Manganese	7.7	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	U		P
7440-09-7	Potassium	4120	B		P
7782-49-2	Selenium	3.1	U	N*	P
7440-22-4	Silver	2.6	U		P
7440-23-5	Sodium	20300			P
7440-28-0	Thallium	6.7	U	N	P
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	741			P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL139

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Matrix (soil/water): WATER Lab Sample ID: 355013

Level (low/med): LOW\_ Date Received: 03/31/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	362	—	—	P
7440-36-0	Antimony	10.7	U	—	P
7440-38-2	Arsenic	5.0	U	—	P
7440-39-3	Barium	52.2	B	—	P
7440-41-7	Beryllium	0.30	U	—	P
7440-43-9	Cadmium	0.70	U	—	P
7440-70-2	Calcium	138000	—	—	P
7440-47-3	Chromium	2.0	U	—	P
7440-48-4	Cobalt	3.7	U	—	P
7440-50-8	Copper	3.4	U	—	P
7439-89-6	Iron	378	—	—	P
7439-92-1	Lead	2.6	U	—	P
7439-95-4	Magnesium	16800	—	—	P
7439-96-5	Manganese	10.6	B	—	P
7439-97-6	Mercury	0.10	U	—	CV
7440-02-0	Nickel	3.5	U	—	P
7440-09-7	Potassium	802	B	—	P
7782-49-2	Selenium	3.1	U	N*	P
7440-22-4	Silver	2.6	U	—	P
7440-23-5	Sodium	16600	—	—	P
7440-28-0	Thallium	6.7	U	N	P
7440-62-2	Vanadium	5.2	U	—	P
7440-66-6	Zinc	5.8	B	—	P
	Cyanide	5.0	U	—	AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL145

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Matrix (soil/water): WATER Lab Sample ID: 355011

Level (low/med): LOW\_ Date Received: 03/31/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	51.8	B		P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	5.8	B		P
7440-39-3	Barium	58.8	B		P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium	0.70	U		P
7440-70-2	Calcium	449000			P
7440-47-3	Chromium	11.5			P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	11.3	B		P
7439-89-6	Iron	462			P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	104000			P
7439-96-5	Manganese	491			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	U		P
7440-09-7	Potassium	32800			P
7782-49-2	Selenium	4.9	B	N*	P
7440-22-4	Silver	3.6	B		P
7440-23-5	Sodium	89200			P
7440-28-0	Thallium	6.7	U	N	P
7440-62-2	Vanadium	7.6	B		P
7440-66-6	Zinc	7.2	B		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL147

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Matrix (soil/water): WATER Lab Sample ID: 355009

Level (low/med): LOW\_ Date Received: 03/31/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	104	B		P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	57.0	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.70	U		P
7440-70-2	Calcium	155000			P
7440-47-3	Chromium	3.3	B		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	4.7	B		P
7439-89-6	Iron	284			P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	19000			P
7439-96-5	Manganese	23.2			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	U		P
7440-09-7	Potassium	1000	B		P
7782-49-2	Selenium	3.1	U	N*	P
7440-22-4	Silver	2.6	U		P
7440-23-5	Sodium	13800			P
7440-28-0	Thallium	6.7	U	N	P
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	4.6	B		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL160

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Matrix (soil/water): WATER Lab Sample ID: 355015

Level (low/med): LOW\_ Date Received: 03/31/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	224	-		P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	53.3	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.70	U		P
7440-70-2	Calcium	147000	-		P
7440-47-3	Chromium	4.1	B		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	5.6	B		P
7439-89-6	Iron	363	-		P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	18400	-		P
7439-96-5	Manganese	2.1	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	U		P
7440-09-7	Potassium	871	B		P
7782-49-2	Selenium	3.1	U	N*	P
7440-22-4	Silver	2.6	U		P
7440-23-5	Sodium	19600	-		P
7440-28-0	Thallium	6.7	U	N	P
7440-62-2	Vanadium	5.2	U		P
7440-66-6	Zinc	1.9	U		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL161

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Matrix (soil/water): WATER Lab Sample ID: 355006

Level (low/med): LOW\_ Date Received: 03/31/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	52.1	B		P
7440-36-0	Antimony	14.6	B		P
7440-38-2	Arsenic	7.3	B		P
7440-39-3	Barium	7.6	U		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	190	U		P
7440-47-3	Chromium	4.1	B		P
7440-48-4	Cobalt	3.7	U		P
7440-50-8	Copper	6.6	B		P
7439-89-6	Iron	84.4	B		P
7439-92-1	Lead	2.6	U		P
7439-95-4	Magnesium	197	U		P
7439-96-5	Manganese	1.4	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.5	B		P
7440-09-7	Potassium	239	B		P
7782-49-2	Selenium	3.1	U	N*	P
7440-22-4	Silver	6.5	B		P
7440-23-5	Sodium	1920	B		P
7440-28-0	Thallium	6.7	U	N	P
7440-62-2	Vanadium	6.6	B		P
7440-66-6	Zinc	42.6	B		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Initial Calibration Source: VENTURES\_\_\_\_\_

Continuing Calibration Source: SPEX\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	26000.0	26150.00	100.6	30200.0	30680.00	101.6	30980.00	102.6	P
Antimony	250.0	257.50	103.0	300.0	291.90	97.3	304.80	101.6	P
Arsenic	250.0	248.10	99.2	100.0	99.77	99.8	104.60	104.6	P
Barium	500.0	488.70	97.7	200.0	193.40	96.7	195.10	97.6	P
Beryllium	500.0	499.60	99.9	100.0	98.02	98.0	99.12	99.1	P
Cadmium	500.0	474.40	94.9	100.0	92.27	92.3	93.15	93.2	P
Calcium	25000.0	25590.00	102.4	30200.0	30660.00	101.5	31160.00	103.2	P
Chromium	500.0	499.30	99.9	200.0	200.80	100.4	205.20	102.6	P
Cobalt	500.0	490.40	98.1	200.0	192.50	96.2	196.80	98.4	P
Copper	500.0	497.60	99.5	200.0	194.30	97.2	197.40	98.7	P
Iron	25500.0	26050.00	102.2	30200.0	30650.00	101.5	31070.00	102.9	P
Lead	1000.0	1012.00	101.2	400.0	394.00	98.5	400.70	100.2	P
Magnesium	25000.0	25340.00	101.4	30200.0	30810.00	102.0	31370.00	103.9	P
Manganese	500.0	490.00	98.0	200.0	193.20	96.6	196.00	98.0	P
Mercury	1.8	1.84	102.2	5.0	5.13	102.6	5.18	103.6	CV
Nickel	500.0	495.00	99.0	200.0	195.80	97.9	200.30	100.2	P
Potassium	25000.0	26400.00	105.6	30200.0	31310.00	103.7	31480.00	104.2	P
Selenium	250.0	240.40	96.2	100.0	96.67	96.7	98.09	98.1	P
Silver	500.0	490.70	98.1	100.0	97.08	97.1	100.60	100.6	P
Sodium	25000.0	25620.00	102.5	30200.0	30080.00	99.6	31140.00	103.1	P
Thallium	250.0	238.80	95.5	100.0	96.82	96.8	102.00	102.0	P
Vanadium	500.0	501.00	100.2	200.0	197.40	98.7	203.50	101.8	P
Zinc	500.0	485.40	97.1	200.0	192.20	96.1	195.90	98.0	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Initial Calibration Source: VENTURES\_\_\_\_\_

Continuing Calibration Source: SPEX\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	26000.0	25780.00	99.2	30200.0	30480.00	100.9	30480.00	100.9	P
Antimony	250.0	248.70	99.5	300.0	294.80	98.3	295.90	98.6	P
Arsenic	250.0	239.90	96.0	100.0	100.70	100.7	102.00	102.0	P
Barium	500.0	498.20	99.6	200.0	199.70	99.8	199.90	100.0	P
Beryllium	500.0	511.40	102.3	100.0	100.70	100.7	100.60	100.6	P
Cadmium	500.0	487.60	97.5	100.0	96.86	96.9	96.38	96.4	P
Calcium	25000.0	24940.00	99.8	30200.0	30240.00	100.1	30270.00	100.2	P
Chromium	500.0	508.10	101.6	200.0	202.40	101.2	203.00	101.5	P
Cobalt	500.0	501.40	100.3	200.0	199.20	99.6	199.40	99.7	P
Copper	500.0	510.90	102.2	200.0	203.20	101.6	204.50	102.2	P
Iron	25500.0	25620.00	100.5	30200.0	30470.00	100.9	30500.00	101.0	P
Lead	1000.0	1002.00	100.2	400.0	398.90	99.7	400.70	100.2	P
Magnesium	25000.0	24830.00	99.3	30200.0	30300.00	100.3	30300.00	100.3	P
Manganese	500.0	498.90	99.8	200.0	197.40	98.7	196.90	98.4	P
Mercury	1.8	1.84	102.2	5.0	5.12	102.4	5.23	104.6	CV
Nickel	500.0	503.10	100.6	200.0	199.20	99.6	200.40	100.2	P
Potassium	25000.0	26400.00	105.6	30200.0	31600.00	104.6	31660.00	104.8	P
Selenium	250.0	253.00	101.2	100.0	99.88	99.9	99.34	99.3	P
Silver	500.0	503.00	100.6	100.0	101.80	101.8	101.00	101.0	P
Sodium	25000.0	22910.00	91.6	30200.0	28120.00	93.1	29050.00	96.2	P
Thallium	250.0	238.30	95.3	100.0	102.50	102.5	97.71	97.7	P
Vanadium	500.0	509.70	101.9	200.0	201.50	100.8	202.10	101.0	P
Zinc	500.0	502.40	100.5	200.0	203.80	101.9	204.30	102.2	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115



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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Initial Calibration Source: VENTURES\_\_\_\_\_

Continuing Calibration Source: SPEX\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				30200.0	30930.00	102.4	30900.00	102.3	P
Antimony				300.0	295.30	98.4	293.60	97.9	P
Arsenic				100.0	100.70	100.7	100.30	100.3	P
Barium				200.0	193.70	96.8	193.20	96.6	P
Beryllium				100.0	99.07	99.1	98.70	98.7	P
Cadmium				100.0	92.36	92.4	92.07	92.1	P
Calcium				30200.0	31090.00	102.9	30960.00	102.5	P
Chromium				200.0	203.00	101.5	202.70	101.4	P
Cobalt				200.0	194.30	97.2	194.20	97.1	P
Copper				200.0	194.00	97.0	193.60	96.8	P
Iron				30200.0	30970.00	102.5	30890.00	102.3	P
Lead				400.0	399.10	99.8	400.10	100.0	P
Magnesium				30200.0	31250.00	103.5	31240.00	103.4	P
Manganese				200.0	195.20	97.6	194.50	97.2	P
Mercury				5.0	5.16	103.2			CV
Nickel				200.0	196.70	98.4	196.30	98.2	P
Potassium				30200.0	31120.00	103.0	30700.00	101.7	P
Selenium				100.0	99.13	99.1	101.60	101.6	P
Silver				100.0	96.55	96.6	96.63	96.6	P
Sodium				30200.0	30100.00	99.7	29790.00	98.6	P
Thallium				100.0	96.67	96.7	95.53	95.5	P
Vanadium				200.0	199.30	99.6	199.20	99.6	P
Zinc				200.0	195.10	97.6	195.00	97.5	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Initial Calibration Source: VENTURES\_\_\_\_\_

Continuing Calibration Source: SPEX\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				30200.0	30850.00	102.2	30900.00	102.3	P
Antimony				300.0	301.60	100.5	301.90	100.6	P
Arsenic				100.0	99.36	99.4	97.71	97.7	P
Barium				200.0	201.90	101.0	201.50	100.8	P
Beryllium				100.0	101.30	101.3	100.90	100.9	P
Cadmium				100.0	97.16	97.2	96.38	96.4	P
Calcium				30200.0	30500.00	101.0	30500.00	101.0	P
Chromium				200.0	203.60	101.8	204.00	102.0	P
Cobalt				200.0	201.30	100.6	200.00	100.0	P
Copper				200.0	208.60	104.3	207.00	103.5	P
Iron				30200.0	30850.00	102.2	30820.00	102.1	P
Lead				400.0	403.90	101.0	403.70	100.9	P
Magnesium				30200.0	30570.00	101.2	30510.00	101.0	P
Manganese				200.0	198.40	99.2	197.80	98.9	P
Mercury									NR
Nickel				200.0	204.20	102.1	202.70	101.4	P
Potassium				30200.0	31840.00	105.4	31820.00	105.4	P
Selenium				100.0	101.00	101.0			P
Silver				100.0	102.00	102.0	100.90	100.9	P
Sodium	25000.0	24360.00	97.4	30200.0	29770.00	98.6	29630.00	98.1	P
Thallium				100.0	99.19	99.2	98.31	98.3	P
Vanadium				200.0	202.50	101.2	202.70	101.4	P
Zinc				200.0	207.00	103.5	206.60	103.3	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Initial Calibration Source: VENTURES\_\_\_\_\_

Continuing Calibration Source: SPEX\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium				30200.0	30010.00	99.4	29790.00	98.6	P
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL \_\_\_\_\_ Contract: 98011 \_\_\_\_\_  
 Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_  
 Initial Calibration Source: FISHER \_\_\_\_\_  
 Continuing Calibration Source: FISHER \_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide	120.0	125.50	104.6	150.0	136.00	90.7	136.00	90.7	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Initial Calibration Source: FISHER\_\_\_\_\_

Continuing Calibration Source: FISHER\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide				150.0	137.00	91.3			AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Initial Calibration Source: FISHER\_\_\_\_\_

Continuing Calibration Source: FISHER\_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide	120.0	123.50	102.9	150.0	129.00	86.0	128.00	85.3	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

AA CRDL Standard Source: VENTURES\_\_\_\_\_

ICP CRDL Standard Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum				400.0	523.20	130.8	603.30	150.8
Antimony				120.0	125.00	104.2	124.80	104.0
Arsenic				20.0	23.96	119.8	23.33	116.6
Barium				400.0	382.30	95.6	381.00	95.2
Beryllium				10.0	9.95	99.5	10.04	100.4
Cadmium				10.0	9.02	90.2	9.11	91.1
Calcium				10000.0	10200.00	102.0	10390.00	103.9
Chromium				20.0	23.46	117.3	23.19	116.0
Cobalt				100.0	97.83	97.8	98.08	98.1
Copper				50.0	52.17	104.3	51.49	103.0
Iron				200.0	395.00	197.5	418.40	209.2
Lead				6.0	7.42	123.7	6.88	114.7
Magnesium				10000.0	10410.00	104.1	10630.00	106.3
Manganese				30.0	29.10	97.0	29.28	97.6
Mercury	0.2	0.15	75.0					
Nickel				80.0	78.29	97.9	78.38	98.0
Potassium				10000.0	10710.00	107.1	10450.00	104.5
Selenium				10.0	10.58	105.8	13.81	138.1
Silver				20.0	22.65	113.2	21.54	107.7
Sodium				10000.0	10720.00	107.2	10230.00	102.3
Thallium				20.0	23.81	119.0	22.12	110.6
Vanadium				100.0	102.60	102.6	102.30	102.3
Zinc				40.0	39.81	99.5	40.34	100.8

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_

SDG No.: 68755\_

AA CRDL Standard Source: VENTURES\_\_\_\_\_

ICP CRDL Standard Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury	0.2	0.19	95.0					
Nickel								
Potassium								
Selenium								
Silver								
Sodium				10000.0	9424.00	94.2	9522.00	95.2
Thallium								
Vanadium								
Zinc								



U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

AA CRDL Standard Source: VENTURES\_\_\_\_\_

ICP CRDL Standard Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum				400.0	501.30	125.3	504.60	126.2
Antimony				120.0	121.10	100.9	121.60	101.3
Arsenic				20.0	22.51	112.6	19.61	98.0
Barium				400.0	394.00	98.5	399.50	99.9
Beryllium				10.0	10.12	101.2	10.31	103.1
Cadmium				10.0	10.06	100.6	10.03	100.3
Calcium				10000.0	10020.00	100.2	10160.00	101.6
Chromium				20.0	20.71	103.6	21.60	108.0
Cobalt				100.0	99.35	99.4	101.00	101.0
Copper				50.0	51.64	103.3	53.99	108.0
Iron				200.0	284.30	142.2	298.60	149.3
Lead				6.0	5.92	98.7	5.31	88.5
Magnesium				10000.0	10190.00	101.9	10320.00	103.2
Manganese				30.0	29.88	99.6	30.09	100.3
Mercury								
Nickel				80.0	80.41	100.5	82.16	102.7
Potassium				10000.0	10940.00	109.4	11000.00	110.0
Selenium				10.0	12.33	123.3	12.66	126.6
Silver				20.0	21.31	106.6	20.81	104.0
Sodium				10000.0	9721.00	97.2	9474.00	94.7
Thallium				20.0	22.90	114.5	23.60	118.0
Vanadium				100.0	102.50	102.5	105.00	105.0
Zinc				40.0	41.69	104.2	42.37	105.9

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3  
BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Preparation Blank Matrix (soil/water): \_\_\_\_\_

Preparation Blank Concentration Units (ug/L or mg/kg): \_\_\_\_\_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum	27.7	U	27.7	U	27.7	U	27.7	U			P
Antimony	10.7	U	10.7	U	10.7	U	10.7	U			P
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U			P
Barium	7.6	U	7.6	U	7.6	U	7.6	U			P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U			P
Cadmium	0.7	U	0.7	U	0.7	U	0.7	U			P
Calcium	190.0	U	190.0	U	190.0	U	190.0	U			P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U			P
Cobalt	3.7	U	3.7	U	3.7	U	3.7	U			P
Copper	3.4	U	3.4	U	3.4	U	3.4	U			P
Iron	70.8	U	70.8	U	70.8	U	70.8	U			P
Lead	2.6	U	2.6	U	2.6	U	2.6	U			P
Magnesium	197.0	U	197.0	U	197.0	U	197.0	U			P
Manganese	0.8	U	0.8	U	0.8	U	0.8	U			P
Mercury											NR
Nickel	3.5	U	3.5	U	3.5	U	3.5	U			P
Potassium	222.0	U	222.0	U	222.0	U	222.0	U			P
Selenium	3.1	U	3.1	U	3.1	U	3.1	U			P
Silver	2.6	U	2.6	U	2.6	U	2.6	U			P
Sodium	838.0	U	838.0	U	838.0	U					P
Thallium	6.7	U	6.7	U	6.7	U	6.7	U			P
Vanadium	5.2	U	5.2	U	5.2	U	5.2	U			P
Zinc	1.9	U	1.9	U	1.9	U	1.9	U			P
Cyanide											NR

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3  
BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Preparation Blank Matrix (soil/water): \_\_\_\_\_

Preparation Blank Concentration Units (ug/L or mg/kg): \_\_\_\_\_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum			27.7	U						P	
Antimony			10.7	U						P	
Arsenic			5.0	U						P	
Barium			7.6	U						P	
Beryllium			0.3	U						P	
Cadmium			0.7	U						P	
Calcium			190.0	U						P	
Chromium			2.0	U						P	
Cobalt			3.7	U						P	
Copper			3.4	U						P	
Iron			70.8	U						P	
Lead			2.6	U						P	
Magnesium			197.0	U						P	
Manganese			0.8	U						P	
Mercury										NR	
Nickel			3.5	U						P	
Potassium			222.0	U						P	
Selenium										NR	
Silver			2.6	U						P	
Sodium	838.0	U	838.0	U	838.0	U	838.0	U		P	
Thallium			6.7	U						P	
Vanadium			5.2	U						P	
Zinc			1.9	U						P	
Cyanide										NR	

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3  
BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Preparation Blank Matrix (soil/water): \_\_\_\_\_

Preparation Blank Concentration Units (ug/L or mg/kg): \_\_\_\_\_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum										NR	
Antimony										NR	
Arsenic										NR	
Barium										NR	
Beryllium										NR	
Cadmium										NR	
Calcium										NR	
Chromium										NR	
Cobalt										NR	
Copper										NR	
Iron										NR	
Lead										NR	
Magnesium										NR	
Manganese										NR	
Mercury										NR	
Nickel										NR	
Potassium										NR	
Selenium										NR	
Silver										NR	
Sodium			838.0	U						P	
Thallium										NR	
Vanadium										NR	
Zinc										NR	
Cyanide										NR	

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP6 TJA 61E ICS Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	505420	493700	496800.0	98.3	499400	500200.0	99.0
Antimony	0	623	-19	645.2	103.6	-20	641.6	103.0
Arsenic	0	108	-5	114.3	105.8	-5	112.3	104.0
Barium	0	512	3	503.1	98.3	3	501.4	97.9
Beryllium	0	503	1	494.5	98.3	1	498.6	99.1
Cadmium	0	950	-6	931.3	98.0	-5	929.3	97.8
Calcium	500000	480060	465600	468200.0	97.5	472200	472500.0	98.4
Chromium	0	508	11	496.2	97.7	11	499.0	98.2
Cobalt	0	484	-2	472.1	97.5	-2	476.0	98.3
Copper	0	511	-22	499.8	97.8	-22	497.7	97.4
Iron	200000	202940	196100	198200.0	97.7	198400	199900.0	98.5
Lead	0	57	-1	66.8	117.2	1	67.9	119.1
Magnesium	500000	540400	521700	527300.0	97.6	532500	535300.0	99.1
Manganese	0	495	3	483.9	97.8	3	487.6	98.5
Mercury								
Nickel	0	1005	27	985.7	98.1	27	989.1	98.4
Potassium	0	0	-314	-279.6		-377	-395.7	
Selenium	0	73	5	75.0	102.7	7	77.1	105.6
Silver	0	220	-9	215.3	97.9	-10	214.5	97.5
Sodium	0	0	1759	2421.0		1664	1839.0	
Thallium	0	106	2	109.1	102.9	0	107.2	101.1
Vanadium	0	515	2	501.6	97.4	2	503.8	97.8
Zinc	0	952	2	927.7	97.4	2	939.5	98.7

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP6 TJA 61E ICS Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	0	42	4	46.1	109.8	5	46.8	111.4
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP4 TJA 61E ICS Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	495820	491900	492000.0	99.2	500600	503100.0	101.5
Antimony	0	653	5	658.5	100.8	7	669.2	102.5
Arsenic	0	107	-7	107.2	100.2	-5	112.4	105.0
Barium	0	531	4	518.0	97.6	4	526.7	99.2
Beryllium	0	499	0	511.7	102.5	0	516.2	103.4
Cadmium	0	903	-8	964.6	106.8	-7	962.9	106.6
Calcium	500000	503500	532400	535200.0	106.3	538600	542700.0	107.8
Chromium	0	499	4	508.0	101.8	4	515.4	103.3
Cobalt	0	476	2	490.3	103.0	3	496.2	104.2
Copper	0	548	4	532.6	97.2	5	546.5	99.7
Iron	200000	193000	198400	198000.0	102.6	200600	201200.0	104.2
Lead	0	65	4	72.2	111.1	6	72.2	111.1
Magnesium	500000	498520	520300	520000.0	104.3	524500	526000.0	105.5
Manganese	0	470	0	493.4	105.0	0	496.2	105.6
Mercury								
Nickel	0	1006	2	990.1	98.4	1	1010.0	100.4
Potassium	0	0	-135	-146.9		-190	-185.6	
Selenium								
Silver	0	230	2	231.8	100.8	1	235.3	102.3
Sodium	0	0	-187	-58.6		-97	-86.8	
Thallium	0	118	6	118.8	100.7	7	120.4	102.0
Vanadium	0	508	2	517.0	101.8	2	523.3	103.0
Zinc	0	1046	16	1043.0	99.7	18	1065.0	101.8

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP5 TJA 61E ICS Source: VENTURES\_\_\_\_\_

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium	0	0	208	-49.7		430	65.0	
Thallium								
Vanadium								
Zinc								



U.S. EPA - CLP

5A  
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

AL139S

Lab Name: ITS\_ENVIRONMENTAL Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68755

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2357.0000	362.1000	2000.00	99.7		P
Antimony	75-125	510.1000	10.7000	500.00	102.0		P
Arsenic	75-125	42.7200	5.0000	40.00	106.8		P
Barium	75-125	2053.0000	52.2300	2000.00	100.0		P
Beryllium	75-125	53.5800	0.3000	50.00	107.2		P
Cadmium	75-125	50.1300	0.7000	50.00	100.3		P
Calcium							NR
Chromium	75-125	210.8000	2.0000	200.00	105.4		P
Cobalt	75-125	515.6000	3.7000	500.00	103.1		P
Copper	75-125	268.9000	3.4000	250.00	107.6		P
Iron	75-125	1442.0000	378.4000	1000.00	106.4		P
Lead	75-125	21.2000	2.6000	20.00	106.0		P
Magnesium							NR
Manganese	75-125	525.8000	10.5600	500.00	103.0		P
Mercury	75-125	1.0100	0.1000	1.00	101.0		CV
Nickel	75-125	520.0000	3.5000	500.00	104.0		P
Potassium							NR
Selenium	75-125	15.4500	3.1000	10.00	154.5	N	P
Silver	75-125	51.1400	2.6000	50.00	102.3		P
Sodium							NR
Thallium	75-125	36.2100	6.7000	50.00	72.4	N	P
Vanadium	75-125	529.1000	5.2000	500.00	105.8		P
Zinc	75-125	533.1000	5.7820	500.00	105.5		P
Cyanide	75-125	53.0000	5.0000	50.00	106.0		AS

Comments:

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5B  
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

AL139A

Lab Name: ITS\_ENVIRONMENTAL Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68755

Matrix (soil/water) : WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium		14.54	3.10	U 10.0	145.4		P
Silver							NR
Sodium							NR
Thallium		47.79	6.70	U 50.0	95.6		P
Vanadium							NR
Zinc							NR
Cyanide							NR

Comments:

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6  
DUPLICATES

EPA SAMPLE NO.

AL139D

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Matrix (soil/water): WATER Level (low/med): \_LOW\_

% Solids for Sample: \_\_0.0 % Solids for Duplicate: \_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	362.1000	U	331.9000	U	8.7		P
Antimony		10.7000	U	10.7000	U			P
Arsenic		5.0000	U	5.0000	U			P
Barium		52.2300	B	55.5900	B	6.2		P
Beryllium		0.3000	U	0.3000	U			P
Cadmium		0.7000	U	1.4640	B	200.0		P
Calcium		138200.0000		147000.0000		6.2		P
Chromium		2.0000	U	2.0000	U			P
Cobalt		3.7000	U	3.7000	U			P
Copper		3.4000	U	3.4000	U			P
Iron	100.0	378.4000	U	405.9000	U	7.0		P
Lead		2.6000	U	2.6000	U			P
Magnesium	5000.0	16850.0000	U	17850.0000	U	5.8		P
Manganese		10.5600	B	11.2600	B	6.4		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		3.5000	U	3.5000	U			P
Potassium		801.6000	B	868.1000	B	8.0		P
Selenium	5.0	3.1000	U	6.6060	U	200.0	*	P
Silver		2.6000	U	2.6000	U			P
Sodium	5000.0	16600.0000	U	17800.0000	U	7.0		P
Thallium		6.7000	U	6.7000	U			P
Vanadium		5.2000	U	5.2000	U			P
Zinc		5.7820	B	5.8010	B	0.3		P
Cyanide		5.0000	U	5.0000	U			AS

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LABORATORY CONTROL SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: VENTURES\_\_\_\_\_

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	51000.0	51960.00	101.9					
Antimony	2000.0	1999.00	100.0					
Arsenic	1050.0	1045.00	99.5					
Barium	500.0	495.00	99.0					
Beryllium	500.0	505.20	101.0					
Cadmium	525.0	486.20	92.6					
Calcium	50000.0	51460.00	102.9					
Chromium	500.0	507.90	101.6					
Cobalt	500.0	494.00	98.8					
Copper	500.0	501.20	100.2					
Iron	50500.0	51700.00	102.4					
Lead	1015.0	1022.00	100.7					
Magnesium	50000.0	51260.00	102.5					
Manganese	500.0	495.10	99.0					
Mercury	1.0	1.02	102.0					
Nickel	500.0	499.40	99.9					
Potassium	50000.0	50670.00	101.3					
Selenium	525.0	524.60	99.9					
Silver	500.0	497.30	99.5					
Sodium	50000.0	51080.00	102.2					
Thallium	550.0	505.00	91.8					
Vanadium	500.0	508.00	101.6					
Zinc	500.0	486.00	97.2					
Cyanide								

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7

LABORATORY CONTROL SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: VENTURES\_\_\_\_\_

Analyte	Aqueous (ug/L)			Solid (mg/kg)				%R
	True	Found	%R	True	Found	C	Limits	
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury	1.0	1.06	106.0					
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								

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7

LABORATORY CONTROL SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT

Case No.: 98011\_

SAS No.: \_\_\_\_\_

SDG No.: 68755\_

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: VENTURES\_\_\_\_\_

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	51000.0	51800.00	101.6					
Antimony	2000.0	2022.00	101.1					
Arsenic	1050.0	1016.00	96.8					
Barium	500.0	512.90	102.6					
Beryllium	500.0	523.20	104.6					
Cadmium	525.0	503.40	95.9					
Calcium	50000.0	51190.00	102.4					
Chromium	500.0	524.80	105.0					
Cobalt	500.0	511.50	102.3					
Copper	500.0	526.70	105.3					
Iron	50500.0	51700.00	102.4					
Lead	1015.0	1023.00	100.8					
Magnesium	50000.0	50830.00	101.7					
Manganese	500.0	509.20	101.8					
Mercury								
Nickel	500.0	518.40	103.7					
Potassium	50000.0	51630.00	103.3					
Selenium	525.0	520.30	99.1					
Silver	500.0	515.70	103.1					
Sodium	50000.0	51200.00	102.4					
Thallium	550.0	522.70	95.0					
Vanadium	500.0	517.50	103.5					
Zinc	500.0	524.00	104.8					
Cyanide								

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8

STANDARD ADDITION RESULTS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract:98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.:\_\_\_\_\_ SDG No.:68755\_

Concentration Units: ug/L

EPA Sample No.	An	0 ADD	1 ADD		2 ADD		3 ADD		Final Conc.	r	Q
		ABS	CON	ABS	CON	ABS	CON	ABS			

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9  
ICP SERIAL DILUTION

EPA SAMPLE NO.

AL139L

Lab Name: ITS\_ENVIRONMENTAL Contract: 98011

Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68755

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Aluminum	362.10		385.10	B	6.4		P
Antimony	10.70	U	53.50	U			P
Arsenic	5.00	U	25.00	U			P
Barium	52.23	B	52.84	B	1.2		P
Beryllium	0.30	U	1.50	U			P
Cadmium	0.70	U	3.50	U			P
Calcium	138200.00		137600.00		0.4		P
Chromium	2.00	U	10.00	U			P
Cobalt	3.70	U	18.50	U			P
Copper	3.40	U	17.00	U			P
Iron	378.40		411.90	B	8.9		P
Lead	2.60	U	13.00	U			P
Magnesium	16850.00		17090.00	B	1.4		P
Manganese	10.56	B	10.99	B	4.1		P
Mercury							NR
Nickel	3.50	U	17.50	U			P
Potassium	801.60	B	1110.00	U	100.0		P
Selenium	3.10	U	15.50	U			P
Silver	2.60	U	13.00	U			P
Sodium	16600.00		15890.00	B	4.3		P
Thallium	6.70	U	33.50	U			P
Vanadium	5.20	U	26.00	U			P
Zinc	5.78	B	34.24	B	492.4		P



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Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP6\_TJA\_61E Date: 04/16/98

Flame AA ID Number : \_\_\_\_\_

Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	27.7	P
Antimony	206.84		60	10.7	P
Arsenic	193.70		10	5.0	P
Barium	493.41		200	7.6	P
Beryllium	313.04		5	0.3	P
Cadmium	228.80		5	0.7	P
Calcium	317.93		5000	190.0	P
Chromium	267.72		10	2.0	P
Cobalt	228.62		50	3.7	P
Copper	324.75		25	3.4	P
Iron	259.94		100	70.8	P
Lead	220.35		3	2.6	P
Magnesium	279.08		5000	197.0	P
Manganese	257.61		15	0.8	P
Mercury			0.2		NR
Nickel	231.60		40	3.5	P
Potassium	766.49		5000	222.0	P
Selenium	196.03		5	3.1	P
Silver	328.07		10	2.6	P
Sodium	589.00		5000	838.0	P
Thallium	190.86		10	5.7	P
Vanadium	292.40		50	5.2	P
Zinc	213.86		20	1.9	P

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP4\_TJA\_61E Date: 04/16/98

Flame AA ID Number : \_\_\_\_\_

Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	8.1	P
Antimony	206.84		60	5.1	P
Arsenic	189.04		10	3.7	P
Barium	493.41		200	1.9	P
Beryllium	313.04		5	0.1	P
Cadmium	226.50		5	0.3	P
Calcium	317.93		5000	60.4	P
Chromium	267.72		10	0.9	P
Cobalt	228.62		50	1.4	P
Copper	324.75		25	1.2	P
Iron	271.44		100	18.2	P
Lead	220.35		3	1.8	P
Magnesium	279.08		5000	57.9	P
Manganese	257.61		15	0.2	P
Mercury			0.2		NR
Nickel	231.60		40	1.3	P
Potassium	766.49		5000	145.0	P
Selenium			5		NR
Silver	328.07		10	1.3	P
Sodium	330.23		5000	262.0	P
Thallium	190.86		10	6.7	P
Vanadium	292.40		50	1.5	P
Zinc	213.86		20	1.6	P

Comments :

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Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP5\_TJA\_61E Date: 04/16/98

Flame AA ID Number : \_\_\_\_\_

Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium	330.23		5000	521.0	P
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: \_\_\_\_\_ Date: 01/16/98

Flame AA ID Number : CV1\_PS200II\_

Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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10

Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: \_\_\_\_\_ Date: 01/16/98

Flame AA ID Number : PS1214\_\_\_\_\_

Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP6 TJA 61E Date: 04/01/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	CD_
Aluminum	308.22	0.0000000	0.0000000	0.0002200	0.0000140	0.0000000
Antimony	206.84	0.0009800	0.0000000	0.0001100	0.0000000	0.0000000
Arsenic	193.70	0.0003450	0.0000200	0.0000400	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000190	0.0000080	0.0000900	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000380	0.0000330	0.0000260
Cobalt	228.62	0.0000000	0.0000000	0.0000470	0.0000000	0.0000840
Copper	324.75	0.0000000	0.0000000	0.0000240	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0010900	0.0000000
Lead	220.35	0.0004000	0.0000000	-0.0000080	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000230	0.0000000	0.0000000	0.0004620
Mercury						
Nickel	231.60	-0.0000400	0.0000000	0.0000000	0.0000000	0.0000870
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.0000080	0.0000000	-0.0000050	-0.0000600	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Sodium	589.00	0.0000000	0.0018800	0.0000600	0.0000000	0.0000000
Thallium	190.86	0.0004000	0.0000000	0.0000450	0.0000090	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000080	0.0000300	0.0000000
Zinc	213.86	0.0000800	0.0000000	0.0000540	0.0000090	0.0000290

Comments:

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11B  
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP6 TJA 61E Date: 04/01/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CO_	CR_	CU_	MN_	NA_
Aluminum	308.22	0.0002310	0.0002270	0.0000000	0.0004060	0.0000000
Antimony	206.84	0.0000710	0.0070400	0.0000000	0.0000000	0.0000000
Arsenic	193.70	0.0002500	0.0003050	0.0000000	0.0000390	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000050	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000140	0.0000000	0.0000000	0.0000000	0.0000820
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000120	0.0000000	0.0000000	0.0001760	0.0000000
Cobalt	228.62	0.0000000	0.0005150	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000310	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0819300	0.0069800	0.0000000	0.0014270	0.0000000
Lead	220.35	0.0001080	0.0000000	0.0000000	0.0000750	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0042900	0.0000000
Manganese	257.61	0.0000000	0.0000410	0.0000270	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0040740	0.0000870	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0001840	0.0000360	0.0000000	0.0003000	0.0000000
Silver	328.07	0.0000000	0.0000200	0.0000000	0.0001380	0.0000000
Sodium	589.00	0.0075090	0.0152200	0.0000000	0.0025300	0.0000000
Thallium	190.86	0.0001430	0.0002830	0.0000000	0.0007690	0.0000000
Vanadium	292.40	0.0000340	0.0000780	0.0000000	0.0002320	0.0000000
Zinc	213.86	0.0000240	0.0005000	0.0000000	0.0000000	0.0000000

Comments:

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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP6 TJA 61E Date: 04/01/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		NI_	TI_	V_	ZN_	_____
Aluminum	308.22	0.0005070	0.0031950	0.0223300	0.0000000	
Antimony	206.84	0.0000000	0.0001540	0.0000760	0.0000000	
Arsenic	193.70	0.0000120	0.0001120	0.0001130	0.0000000	
Barium	493.41	0.0000000	0.0000000	0.0000480	0.0000000	
Beryllium	313.04	0.0000000	0.0000180	0.0001590	0.0000000	
Cadmium	228.80	0.0001440	0.0000590	0.0000000	0.0000000	
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium	267.72	0.0000000	0.0000660	0.0004790	0.0000000	
Cobalt	228.62	0.0003230	0.0018940	0.0000280	0.0000000	
Copper	324.75	0.0000000	0.0007410	0.0002950	0.0000000	
Iron	259.94	0.0008990	0.0032200	0.0127800	0.0000000	
Lead	220.35	0.0004730	0.0000940	-0.0000500	0.0000000	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.03	0.0000000	0.0000000	0.0001660	0.0000000	
Silver	328.07	0.0000000	0.0002210	0.0002340	0.0000000	
Sodium	589.00	0.0063400	0.0994800	0.0538900	0.1140000	
Thallium	190.86	0.0000290	0.0016900	0.0010440	0.0000000	
Vanadium	292.40	0.0000000	0.0001080	0.0000000	0.0004160	
Zinc	213.86	0.0000000	0.0000210	0.0000000	0.0000000	

Comments:

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11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP4 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	CO_
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	-0.0000240	0.0000000	0.0000130	0.0000000	-0.0002300
Arsenic	189.04	0.0000070	0.0000000	-0.0000480	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000050	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001040	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	-0.0002360	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.0000070	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0834000
Lead	220.35	0.0006000	0.0000000	0.0000850	0.0000070	-0.0110300
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000190	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0014900
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000140	0.0000000	-0.0001500	0.0000000	0.0003870
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	-0.0000300	0.0000000	-0.0000430	0.0000000	0.0038460
Vanadium	292.40	0.0000000	0.0000000	0.0000240	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP4 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CR_	MN_	NI_	PB_	V_
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0203200
Antimony	206.84	0.0099100	0.0000000	-0.0006110	0.0000000	-0.0103400
Arsenic	189.04	0.0002760	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0003650	0.0000000	0.0000000	0.0005910
Cadmium	226.50	0.0000000	0.0000000	-0.0000410	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0001250	0.0000000	0.0000000	-0.0000960
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	-0.0003000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0002550	0.0000000	0.0002270	0.0000000	0.0000860
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001300	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0001870	0.0000000	0.0000000	0.0001330
Silver	328.07	0.0000000	0.0000670	0.0000000	0.0000000	-0.0000970
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0003410	-0.0089400	0.0000000	0.0000320	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments :

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U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP4 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		ZN_	_____	_____	_____	_____
Aluminum	308.22	0.0000000				
Antimony	206.84	-0.0001690				
Arsenic	189.04	0.0000000				
Barium	493.41	0.0000000				
Beryllium	313.04	0.0000000				
Cadmium	226.50	0.0000000				
Calcium	317.93	0.0000000				
Chromium	267.72	0.0000000				
Cobalt	228.62	0.0000000				
Copper	324.75	0.0000000				
Iron	271.44	0.0000000				
Lead	220.35	0.0000000				
Magnesium	279.08	0.0000000				
Manganese	257.61	0.0000000				
Mercury						
Nickel	231.60	0.0000000				
Potassium	766.49	0.0000000				
Selenium	196.03	0.0000000				
Silver	328.07	0.0000000				
Sodium	330.23	0.0000000				
Thallium	190.86	0.0000000				
Vanadium	292.40	0.0000000				
Zinc	213.86	0.0000000				

Comments:

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ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	CD_
Aluminum	237.31	0.0000000	0.0000000	-0.0007060	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Arsenic	189.04	0.0000030	0.0000000	-0.0000190	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000040	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000020	0.0000000	0.0000720	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0002050
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0002010
Copper	324.75	0.0000000	0.0000000	-0.0001110	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead						
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	294.92	0.0000000	0.0000000	0.0006600	0.0000170	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.07	0.0000000	0.0000000	-0.0000020	0.0000010	0.0000000
Sodium	330.23	0.0000000	0.0000000	-0.0013900	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	0.0000230	0.0000000	0.0000000
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CO_	CR_	MN_	NI_	TI_
Aluminum	237.31	0.0010260	-0.0001500	0.0004560	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0106760	0.0000000	-0.0010930	0.0009800
Arsenic	189.04	0.0000000	0.0000130	-0.0000260	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0006000
Cadmium	226.50	0.0000190	0.0000000	0.0000000	-0.0001420	0.0001100
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000760	0.0000000	0.0001550	0.0021800
Copper	324.75	-0.0006200	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0834400	0.0000000	-0.0010430	-0.0005400	0.0000000
Lead						
Magnesium	279.08	0.0000000	0.0000000	-0.0083200	0.0000000	0.0000000
Manganese	294.92	0.0000000	-0.0001100	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0005300	0.0000000	-0.0000770	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.07	0.0000000	0.0000450	0.0001060	0.0000000	0.0004400
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	-0.0014900	-0.0000760	0.0000000	0.0005480
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP5 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		V__	ZN_	___	___	___
Aluminum	237.31	-0.0041100	0.0000000			
Antimony	206.84	-0.0107300	0.0002410			
Arsenic	189.04	-0.0010590	0.0000000			
Barium	493.41	0.0000420	0.0000000			
Beryllium	313.04	0.0015700	0.0000000			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.72	0.0000000	0.0000000			
Cobalt	228.61	0.0000000	0.0000000			
Copper	324.75	-0.0001320	0.0000000			
Iron	271.44	0.0076000	0.0000000			
Lead						
Magnesium	279.08	0.0000000	0.0000000			
Manganese	294.92	0.0048700	0.0000000			
Mercury						
Nickel	231.60	-0.0001520	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium						
Silver	328.07	0.0004460	0.0000000			
Sodium	330.23	0.0000000	0.0939400			
Thallium						
Vanadium	292.40	0.0000000	0.0000000			
Zinc	213.85	-0.0054500	0.0000000			

Comments:

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP6 TJA 61E Date: 04/16/98

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	5000.0	P
Barium	10.00	1000000.0	P
Beryllium	10.00	5000.0	P
Cadmium	10.00	5000.0	P
Calcium	10.00	500000.0	P
Chromium	10.00	100000.0	P
Cobalt	10.00	100000.0	P
Copper	10.00	100000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	100000.0	P
Magnesium	10.00	500000.0	P
Manganese	10.00	5000.0	P
Mercury			NR
Nickel	10.00	100000.0	P
Potassium	10.00	100000.0	P
Selenium	10.00	5000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	100000.0	P
Thallium	10.00	5000.0	P
Vanadium	10.00	100000.0	P
Zinc	10.00	3000.0	P

Comments:

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP4 TJA 61E Date: 04/16/98

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	5000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	5000.0	P
Cadmium	10.00	5000.0	P
Calcium	10.00	600000.0	P
Chromium	10.00	100000.0	P
Cobalt	10.00	100000.0	P
Copper	10.00	100000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	100000.0	P
Magnesium	10.00	1000000.0	P
Manganese	10.00	10000.0	P
Mercury			NR
Nickel	10.00	100000.0	P
Potassium	10.00	100000.0	P
Selenium	10.00	5000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	100000.0	P
Thallium	10.00	5000.0	P
Vanadium	10.00	100000.0	P
Zinc	10.00	3000.0	P

Comments:

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 68755\_

ICP ID Number: ICP5 TJA 61E Date: 04/16/98

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	1000000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	5000.0	P
Barium	10.00	100000.0	P
Beryllium	10.00	25000.0	P
Cadmium	10.00	25000.0	P
Calcium	10.00	600000.0	P
Chromium	10.00	100000.0	P
Cobalt	10.00	100000.0	P
Copper	10.00	100000.0	P
Iron	10.00	1000000.0	P
Lead			NR
Magnesium	10.00		P
Manganese	10.00	50000.0	P
Mercury			NR
Nickel	10.00	50000.0	P
Potassium	10.00	100000.0	P
Selenium			NR
Silver	10.00	2000.0	P
Sodium	10.00	100000.0	P
Thallium			NR
Vanadium	10.00	100000.0	P
Zinc	10.00	3000.0	P

Comments:

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PREPARATION LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.:\_98011\_

SAS No.: \_\_\_\_\_

SDG No.:68755\_

Method: P\_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AL133	04/01/98		100
AL135	04/01/98		100
AL139	04/01/98		100
AL139S	04/01/98		100
AL145	04/01/98		100
AL147	04/01/98		100
AL160	04/01/98		100
AL161	04/01/98		100
LCSW	04/01/98		100
PBW	04/01/98		100

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PREPARATION LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT

Case No.:\_98011\_

SAS No.: \_\_\_\_\_

SDG No.:68755\_

Method: P\_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AL139	04/06/98		100
AL139D	04/06/98		100
AL139S	04/06/98		100
LCSW	04/06/98		100
PBW	04/06/98		100

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PREPARATION LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT            Case No.: \_98011\_

SAS No.: \_\_\_\_\_

SDG No.:68755\_

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AL133	04/03/98		100
AL135	04/03/98		100
AL139	04/03/98		100
AL139S	04/03/98		100
AL145	04/03/98		100
AL147	04/03/98		100
AL160	04/03/98		100
AL161	04/03/98		100
LCSW	04/03/98		100
PBW	04/03/98		100



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PREPARATION LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: \_98011\_ SAS No.: \_\_\_\_\_ SDG No.:68755\_

Method: AS

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AL133	04/02/98		250
AL135	04/02/98		250
AL139	04/02/98		250
AL139S	04/02/98		250
AL145	04/02/98		250
AL147	04/02/98		250
AL160	04/02/98		250
AL161	04/02/98		250
ICV	04/02/98		250
PBW	04/02/98		250



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ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Instrument ID Number: ICP6 TJA 61E\_

Method: P\_

Start Date: 04/24/98

End Date: 04/24/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
S0	1.00	0817		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S	1.00	0820		X						X										X							
S	1.00	0824			X	X								X						X				X			
S	1.00	0827					X	X	X		X	X	X			X				X				X	X		
ICV	1.00	0832		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB	1.00	0836		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA	1.00	0840		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1.00	0845		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI	1.00	0849		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1.00	0853		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1.00	0857		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PBW	1.00	0902		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSW	1.00	0906		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL133	1.00	0910		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL161	1.00	0914		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL135	1.00	0918		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL147	1.00	0922		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AL145	1.00	0926		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	0931																									
ZZZZZZ	5.00	0935																									
ZZZZZZ	1.00	0939																									
CCV	1.00	0943		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1.00	0947		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	0951																									
AL160	1.00	0956		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1000																									
ZZZZZZ	5.00	1004																									
ZZZZZZ	1.00	1008																									
ZZZZZZ	1.00	1012																									
ZZZZZZ	1.00	1016																									
ZZZZZZ	1.00	1020																									
ZZZZZZ	1.00	1025																									



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ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Instrument ID Number: ICP6 TJA 61E\_

Method: P\_

Start Date: 04/24/98

End Date: 04/24/98

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1.00	1029		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CCV	1.00	1033		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
CCE	1.00	1037		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
ZZZZZZ	1.00	1041		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
ZZZZZZ	1.00	1045		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
ZZZZZZ	1.00	1050		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
ICSA	1.00	1054		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
ICSAE	1.00	1058		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
CRI	1.00	1102		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
CCV	1.00	1106		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
CCB	1.00	1111		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
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ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.:68755\_\_\_\_\_

Instrument ID Number: ICP6 TJA 61E\_\_\_\_\_

Method: P\_\_\_\_\_

Start Date: 04/18/98

End Date: 04/18/98

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.00	0002		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.00	0005		X					X				X	X					X			X							
S	1.00	0009			X	X							X							X			X						
S	1.00	0012					X	X	X		X	X	X			X		X			X			X	X				
ICV	1.00	0017																		X									
ICB	1.00	0021																		X									
ICSA	1.00	0026																		X									
ICSAB	1.00	0030																		X									
CRI	1.00	0034																		X									
CCV	1.00	0038																		X									
CCB	1.00	0042																		X									
ZZZZZZ	1.00	0047																											
ZZZZZZ	1.00	0051																											
ZZZZZZ	1.00	0055																											
ZZZZZZ	1.00	0059																											
ZZZZZZ	1.00	0103																											
ZZZZZZ	1.00	0107																											
ZZZZZZ	5.00	0112																											
ZZZZZZ	1.00	0116																											
ZZZZZZ	1.00	0120																											
ZZZZZZ	1.00	0124																											
CCV	1.00	0128																			X								
CCB	1.00	0132																			X								
PBW	1.00	0137																			X								
LCSW	1.00	0141																			X								
AL139	1.00	0145																			X								
AL139L	5.00	0149																			X								
AL139A	1.00	0153																			X								
AL139S	1.00	0157																			X								
AL139D	1.00	0202																			X								
ICSA	1.00	0206																			X								
ICSAB	1.00	0210																			X								

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ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_\_

SAS No.: \_\_\_\_\_ SDG No.:68755\_

Instrument ID Number: ICP6 TJA 61E\_

Method: P\_

Start Date: 04/18/98

End Date: 04/18/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
CRI	1.00	0214		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-
CCV	1.00	0218		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-
CCB	1.00	0223		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.: 68755\_

Instrument ID Number: ICP4 TJA 61E\_

Method: P\_

Start Date: 04/20/98

End Date: 04/20/98

EPA Sample No.	D/F	Time	% R	Analytes																																		
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N											
ICSA	1.00	0514		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSA B	1.00	0520		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI	1.00	0525		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1.00	0531		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB	1.00	0536		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_\_

SAS No.: \_\_\_\_\_ SDG No.:68755\_

Instrument ID Number: ICP5 TJA 61E\_\_

Method: P\_

Start Date: 04/24/98

End Date: 04/24/98

EPA Sample No.	D/F	Time	% R	Analytes																						
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K	S	A	N	T	V	Z	C
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I		E	G	A	L	N	N
S0	1.00	1158		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	
S	1.00	1201		X						X				X		X				X		X				
S	1.00	1206			X	X									X						X					
S	1.00	1211					X	X	X		X	X	X				X				X			X	X	
ICV	1.00	1216																X								
ICB	1.00	1221																				X				
ICSA	1.00	1226																				X				
ICSAB	1.00	1231																				X				
CRI	1.00	1236																				X				
CCV	1.00	1241																				X				
CCB	1.00	1245																				X				
AL145	10.00	1250																				X				
ZZZZZZ	10.00	1255																								
ZZZZZZ	10.00	1300																								
ZZZZZZ	10.00	1305																								
ICSA	1.00	1309																					X			
ICSAB	1.00	1314																					X			
CRI	1.00	1319																					X			
CCV	1.00	1324																					X			
CCB	1.00	1329																					X			

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ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.:68755\_

Instrument ID Number: CV1 PS200II\_\_\_ Method: CV

Start Date: 04/03/98 End Date: 04/03/98

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.00	1406		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
S0.2	1.00	1408		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
S0.5	1.00	1410		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
S1	1.00	1413		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
S5	1.00	1415		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
S10	1.00	1418		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
ICV	1.00	1420		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
ICB	1.00	1423		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
CRA	1.00	1425		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
CCV	1.00	1427		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
CCB	1.00	1429		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
PBW	1.00	1432		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
LCSW	1.00	1434		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1437		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1439		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1442		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1444		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1446		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
AL133	1.00	1449		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
AL161	1.00	1451		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
CCV	1.00	1453		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
CCE	1.00	1456		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
AL135	1.00	1458		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
AL147	1.00	1501		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
AL145	1.00	1503		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
AL139	1.00	1506		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
AL139S	1.00	1508		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
AL160	1.00	1510		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1513		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1515		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ZZZZZZ	1.00	1517		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CCV	1.00	1520		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-		

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ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.:68755\_

Instrument ID Number: CV1 PS200II\_

Method: CV

Start Date: 04/03/98

End Date: 04/03/98

EPA Sample No.	D/F	Time	% R	Analytes																								
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N	
CCB	1.00	1522																										



U.S. EPA - CLP

14  
ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.:68755\_

Instrument ID Number: CV1 PS200II\_

Method: CV

Start Date: 04/09/98

End Date: 04/09/98

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.00	0959																	X										
S0.2	1.00	1002																	X										
S0.5	1.00	1004																	X										
S1	1.00	1006																	X										
S5	1.00	1009																	X										
S10	1.00	1011																	X										
ICV	1.00	1013																	X										
ICB	1.00	1016																	X										
CRA	1.00	1018																	X										
CCV	1.00	1021																	X										
CCB	1.00	1023																	X										
PBW	1.00	1025																	X										
LCSW	1.00	1028																	X										
AL139	1.00	1030																	X										
AL139S	1.00	1032																	X										
AL139D	1.00	1035																	X										
ZZZZZZ	1.00	1037																	X										
ZZZZZZ	1.00	1039																	X										
ZZZZZZ	1.00	1041																	X										
ZZZZZZ	1.00	1044																	X										
CCV	1.00	1046																	X										
CCB	1.00	1048																	X										

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_\_

SAS No.: \_\_\_\_\_ SDG No.:68755\_

Instrument ID Number: PS1214\_\_\_\_\_

Method: AS

Start Date: 04/02/98

End Date: 04/02/98

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.00	2240																										X	
S10	1.00	2242																										X	
S50	1.00	2244																										X	
S100	1.00	2246																										X	
S200	1.00	2248																										X	
S300	1.00	2251																										X	
ICV	1.00	2253																										X	
ICB	1.00	2255																										X	
CCV	1.00	2257																										X	
CCB	1.00	2259																										X	
ZZZZZZ	1.00	2301																											
PBW	1.00	2304																										X	
ZZZZZZ	1.00	2306																											
ZZZZZZ	1.00	2308																											
ZZZZZZ	1.00	2310																											
ZZZZZZ	1.00	2312																											
ZZZZZZ	1.00	2314																											
ZZZZZZ	1.00	2316																											
AL133	1.00	2318																										X	
AL161	1.00	2320																										X	
CCV	1.00	2322																										X	
CCB	1.00	2324																										X	
AL135	1.00	2327																										X	
AL147	1.00	2329																										X	
AL145	1.00	2331																										X	
AL139	1.00	2333																										X	
AL139S	1.00	2335																										X	
AL160	1.00	2337																										X	
ZZZZZZ	1.00	2339																											
ZZZZZZ	1.00	2341																											
ZZZZZZ	1.00	2343																											
ZZZZZZ	1.00	2345																											

U.S. EPA - CLP

14  
ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.:68755\_

Instrument ID Number: PS1214\_\_\_\_\_

Method: AS

Start Date: 04/02/98

End Date: 04/02/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K	S	A	N	T	V	Z	C	
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I		E	G	A	L	N	N	
CCV	1.00	2347		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
CCB	1.00	2349		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
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U.S. EPA - CLP

14  
ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_

SAS No.: \_\_\_\_\_ SDG No.:68755\_

Instrument ID Number: PS1214\_\_\_\_\_

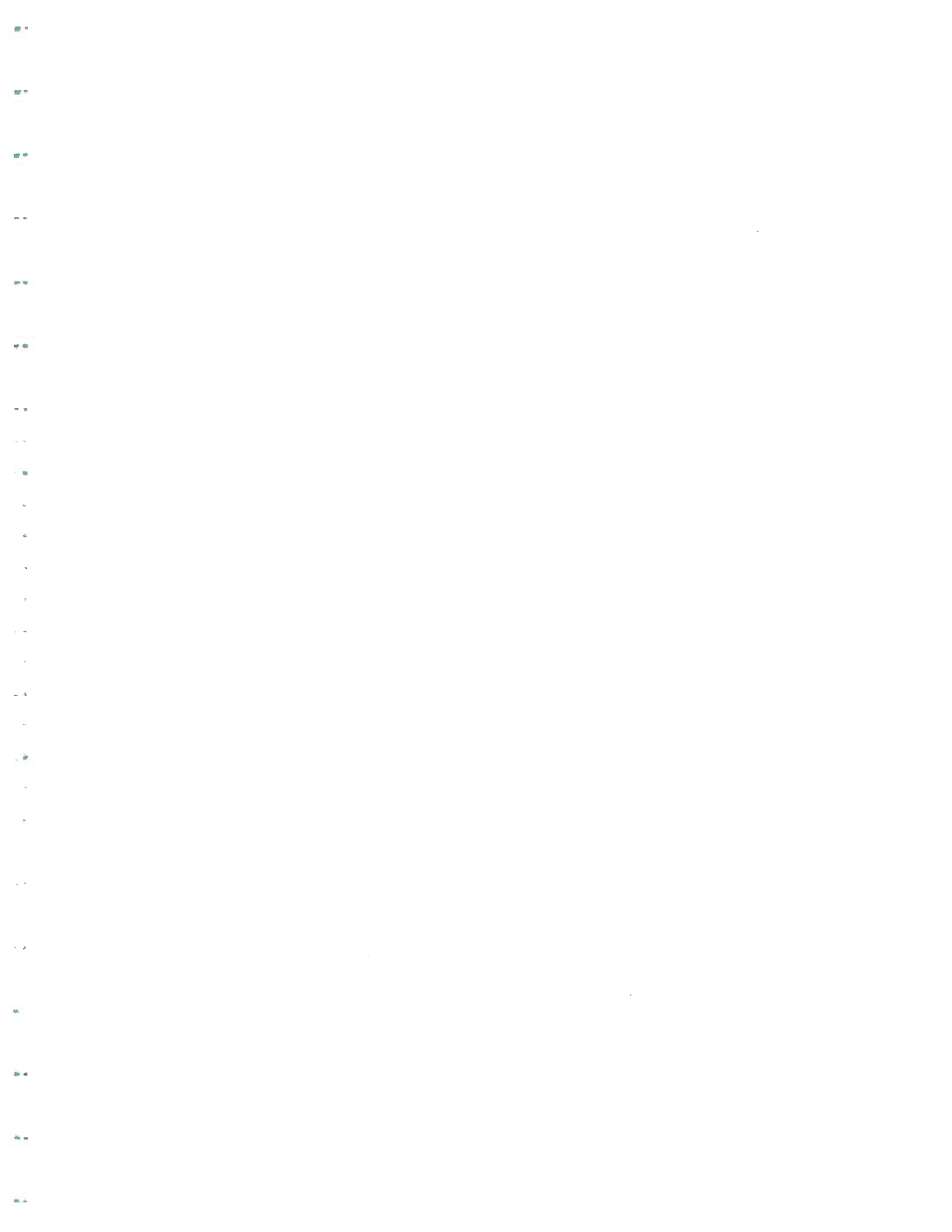
Method: AS

Start Date: 04/09/98

End Date: 04/09/98

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
S0	1.00	0906		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
S10	1.00	0908		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
S50	1.00	0910		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
S100	1.00	0913		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
S200	1.00	0915		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
S300	1.00	0917		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ICV	1.00	0919		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ICB	1.00	0922		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
CCV	1.00	0924		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
CCB	1.00	0926		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ZZZZZZ	1.00	0928		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PBW	1.00	0930		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ZZZZZZ	1.00	0932		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0934		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AL139D	1.00	0936		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
ZZZZZZ	1.00	0938		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0940		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0943		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0945		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0947		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	0949		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
CCB	1.00	0951		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
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1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL136

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 354998                                      Date Received: 03/31/98

Lab File ID: L354998DV                                      Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                      Dilution Factor: 4.6

GC Column: DB-624      ID: 0.53 (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	9	U
67-64-1	Acetone	23	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	92	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	23	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	23	U
591-78-6	2-Hexanone	23	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL136

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 68755

Lab Sample ID: 354998                                      Date Received: 03/31/98

Lab File ID: L354998DV                                      Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                      Dilution Factor: 4.6

GC Column: DB-624    ID: 0.53 (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL156

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 355000                              Date Received: 03/31/98

Lab File ID: L355000DV                              Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                              Dilution Factor: 48.9

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	49	U
74-83-9	-----Bromomethane	49	U
75-01-4	-----Vinyl Chloride	15	J
75-00-3	-----Chloroethane	49	U
75-09-2	-----Methylene Chloride	98	U
67-64-1	-----Acetone	240	U
75-15-0	-----Carbon Disulfide	49	U
75-35-4	-----1,1-Dichloroethene	49	U
75-34-3	-----1,1-Dichloroethane	49	U
156-59-2	-----cis-1,2-Dichloroethene	1300	E
156-60-5	-----trans-1,2-Dichloroethene	49	U
67-66-3	-----Chloroform	49	U
107-06-2	-----1,2-Dichloroethane	49	U
78-93-3	-----2-Butanone	240	U
74-97-5	-----Bromochloromethane	49	U
71-55-6	-----1,1,1-Trichloroethane	49	U
56-23-5	-----Carbon Tetrachloride	49	U
75-27-4	-----Bromodichloromethane	49	U
78-87-5	-----1,2-Dichloropropane	49	U
10061-01-5	-----cis-1,3-Dichloropropene	49	U
79-01-6	-----Trichloroethene	920	U
124-48-1	-----Dibromochloromethane	49	U
79-00-5	-----1,1,2-Trichloroethane	49	U
71-43-2	-----Benzene	49	U
10061-02-6	-----trans-1,3-Dichloropropene	49	U
75-25-2	-----Bromoform	49	U
108-10-1	-----4-Methyl-2-Pentanone	240	U
591-78-6	-----2-Hexanone	240	U
127-18-4	-----Tetrachloroethene	49	U
79-34-5	-----1,1,2,2-Tetrachloroethane	49	U
106-93-4	-----1,2-Dibromoethane	49	U
108-88-3	-----Toluene	49	U
108-90-7	-----Chlorobenzene	49	U
100-41-4	-----Ethylbenzene	49	U
100-42-5	-----Styrene	49	U
1330-20-7	-----Xylene (total)	49	U
541-73-1	-----1,3-Dichlorobenzene	49	U
106-46-7	-----1,4-Dichlorobenzene	49	U
95-50-1	-----1,2-Dichlorobenzene	49	U
96-12-8	-----1,2-Dibromo-3-chloropropane	49	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL156

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Lab Sample ID: 355000

Date Received: 03/31/98

Lab File ID: L355000DV

Date Analyzed: 04/02/98

Purge Volume: 5 (mL)

Dilution Factor: 48.9

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL156DL

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 355000D1                              Date Received: 03/31/98

Lab File ID: L355000I2V                              Date Analyzed: 04/07/98

Purge Volume: 5                      (mL)                              Dilution Factor: 66.7

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	67	U
74-83-9	-----Bromomethane	67	U
75-01-4	-----Vinyl Chloride	17	DJ
75-00-3	-----Chloroethane	67	U
75-09-2	-----Methylene Chloride	130	U
67-64-1	-----Acetone	330	U
75-15-0	-----Carbon Disulfide	67	U
75-35-4	-----1,1-Dichloroethene	67	U
75-34-3	-----1,1-Dichloroethane	67	U
156-59-2	-----cis-1,2-Dichloroethene	1300	D
156-60-5	-----trans-1,2-Dichloroethene	67	U
67-66-3	-----Chloroform	67	U
107-06-2	-----1,2-Dichloroethane	67	U
78-93-3	-----2-Butanone	330	U
74-97-5	-----Bromochloromethane	67	U
71-55-6	-----1,1,1-Trichloroethane	67	U
56-23-5	-----Carbon Tetrachloride	67	U
75-27-4	-----Bromodichloromethane	67	U
78-87-5	-----1,2-Dichloropropane	67	U
10061-01-5	-----cis-1,3-Dichloropropene	67	U
79-01-6	-----Trichloroethene	910	D
124-48-1	-----Dibromochloromethane	67	U
79-00-5	-----1,1,2-Trichloroethane	67	U
71-43-2	-----Benzene	67	U
10061-02-6	-----trans-1,3-Dichloropropene	67	U
75-25-2	-----Bromoform	67	U
108-10-1	-----4-Methyl-2-Pentanone	330	U
591-78-6	-----2-Hexanone	330	U
127-18-4	-----Tetrachloroethene	67	U
79-34-5	-----1,1,2,2-Tetrachloroethane	67	U
106-93-4	-----1,2-Dibromoethane	67	U
108-88-3	-----Toluene	67	U
108-90-7	-----Chlorobenzene	67	U
100-41-4	-----Ethylbenzene	67	U
100-42-5	-----Styrene	67	U
1330-20-7	-----Xylene (total)	67	U
541-73-1	-----1,3-Dichlorobenzene	67	U
106-46-7	-----1,4-Dichlorobenzene	67	U
95-50-1	-----1,2-Dichlorobenzene	67	U
96-12-8	-----1,2-Dibromo-3-chloropropane	67	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL156DL

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Lab Sample ID: 355000D1

Date Received: 03/31/98

Lab File ID: L355000I2V

Date Analyzed: 04/07/98

Purge Volume: 5 (mL)

Dilution Factor: 66.7

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL133

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Lab Sample ID: 355002

Date Received: 03/31/98

Lab File ID: L355002V

Date Analyzed: 04/02/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	3	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	0.5	J
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL133

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 355002                                      Date Received: 03/31/98

Lab File ID: L355002V                                      Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

<del>AL161</del> AL147 KCS
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Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 355006                                      Date Received: 03/31/98

Lab File ID: L355006V                                      Date Analyzed: 04/07/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	1	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	0.3	J
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	2	U
67-64-1	-----Acetone	5	U
75-15-0	-----Carbon Disulfide	1	U
75-35-4	-----1,1-Dichloroethene	1	U
75-34-3	-----1,1-Dichloroethane	1	U
156-59-2	-----cis-1,2-Dichloroethene	63	E
156-60-5	-----trans-1,2-Dichloroethene	2	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	1	U
78-93-3	-----2-Butanone	5	U
74-97-5	-----Bromochloromethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	1	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	1	U
10061-01-5	-----cis-1,3-Dichloropropene	1	U
79-01-6	-----Trichloroethene	34	E
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	1	U
71-43-2	-----Benzene	1	U
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	1	U
108-10-1	-----4-Methyl-2-Pentanone	5	U
591-78-6	-----2-Hexanone	5	U
127-18-4	-----Tetrachloroethene	1	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1	U
106-93-4	-----1,2-Dibromoethane	1	U
108-88-3	-----Toluene	0.2	J
108-90-7	-----Chlorobenzene	1	U
100-41-4	-----Ethylbenzene	1	U
100-42-5	-----Styrene	1	U
1330-20-7	-----Xylene (total)	1	U
541-73-1	-----1,3-Dichlorobenzene	1	U
106-46-7	-----1,4-Dichlorobenzene	1	U
95-50-1	-----1,2-Dichlorobenzene	1	U
96-12-8	-----1,2-Dibromo-3-chloropropane	1	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

~~AL101~~  
AL147

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 355006                                      Date Received: 03/31/98

Lab File ID: L355006V                                      Date Analyzed: 04/07/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

~~AL161RE~~  
 AL147RE  
 KCS

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68755  
 Lab Sample ID: 355006R1 Date Received: 03/31/98  
 Lab File ID: L355006I4V Date Analyzed: 04/08/98  
 Purge Volume: 5 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	1	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	1	U
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	2	U
67-64-1	-----Acetone	5	U
75-15-0	-----Carbon Disulfide	1	U
75-35-4	-----1,1-Dichloroethene	1	U
75-34-3	-----1,1-Dichloroethane	1	U
156-59-2	-----cis-1,2-Dichloroethene	1	U
156-60-5	-----trans-1,2-Dichloroethene	1	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	1	U
78-93-3	-----2-Butanone	5	U
74-97-5	-----Bromochloromethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	1	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	1	U
10061-01-5	-----cis-1,3-Dichloropropene	1	U
79-01-6	-----Trichloroethene	1	U
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	1	U
71-43-2	-----Benzene	1	U
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	1	U
108-10-1	-----4-Methyl-2-Pentanone	5	U
591-78-6	-----2-Hexanone	5	U
127-18-4	-----Tetrachloroethene	1	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1	U
106-93-4	-----1,2-Dibromoethane	1	U
108-88-3	-----Toluene	1	U
108-90-7	-----Chlorobenzene	1	U
100-41-4	-----Ethylbenzene	1	U
100-42-5	-----Styrene	1	U
1330-20-7	-----Xylene (total)	1	U
541-73-1	-----1,3-Dichlorobenzene	1	U
106-46-7	-----1,4-Dichlorobenzene	1	U
95-50-1	-----1,2-Dichlorobenzene	1	U
96-12-8	-----1,2-Dibromo-3-chloropropane	1	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL161RE

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 355006R1                                      Date Received: 03/31/98

Lab File ID: L355006I4V                                      Date Analyzed: 04/08/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL135

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 355007                                      Date Received: 03/31/98

Lab File ID: L355007DV                                      Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                                      Dilution Factor: 5.2

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	26	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	3	J
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	2	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	26	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	130	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	26	U
591-78-6	2-Hexanone	26	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL135

Lab Name: ITS ENVIRONMENTAL      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:      SDG No.: 68755

Lab Sample ID: 355007      Date Received: 03/31/98

Lab File ID: L355007DV      Date Analyzed: 04/02/98

Purge Volume: 5 (mL)      Dilution Factor: 5.2

GC Column: DB-624      ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

~~AL147~~  
 AL161  
 RRS

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68755  
 Lab Sample ID: 355009 Date Received: 03/31/98  
 Lab File ID: L355009I2V Date Analyzed: 04/07/98  
 Purge Volume: 5 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL147  
AL161

Lab Name: ITS ENVIRONMENTAL      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:      SDG No.: 68755

Lab Sample ID: 355009      Date Received: 03/31/98

Lab File ID: L355009I2V      Date Analyzed: 04/07/98

Purge Volume: 5      (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL145

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Lab Sample ID: 355011

Date Received: 03/31/98

Lab File ID: L355011DV

Date Analyzed: 04/02/98

Purge Volume: 5 (mL)

Dilution Factor: 14.7

GC Column: DB-624

ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	15	U
74-83-9	-----Bromomethane	15	U
75-01-4	-----Vinyl Chloride	71	U
75-00-3	-----Chloroethane	15	U
75-09-2	-----Methylene Chloride	29	U
67-64-1	-----Acetone	73	U
75-15-0	-----Carbon Disulfide	15	U
75-35-4	-----1,1-Dichloroethene	15	U
75-34-3	-----1,1-Dichloroethane	4	J
156-59-2	-----cis-1,2-Dichloroethene	360	U
156-60-5	-----trans-1,2-Dichloroethene	15	U
67-66-3	-----Chloroform	15	U
107-06-2	-----1,2-Dichloroethane	15	U
78-93-3	-----2-Butanone	73	U
74-97-5	-----Bromochloromethane	15	U
71-55-6	-----1,1,1-Trichloroethane	15	U
56-23-5	-----Carbon Tetrachloride	15	U
75-27-4	-----Bromodichloromethane	15	U
78-87-5	-----1,2-Dichloropropane	15	U
10061-01-5	-----cis-1,3-Dichloropropene	15	U
79-01-6	-----Trichloroethene	13	J
124-48-1	-----Dibromochloromethane	15	U
79-00-5	-----1,1,2-Trichloroethane	15	U
71-43-2	-----Benzene	15	U
10061-02-6	-----trans-1,3-Dichloropropene	15	U
75-25-2	-----Bromoform	15	U
108-10-1	-----4-Methyl-2-Pentanone	73	U
591-78-6	-----2-Hexanone	73	U
127-18-4	-----Tetrachloroethene	15	U
79-34-5	-----1,1,2,2-Tetrachloroethane	15	U
106-93-4	-----1,2-Dibromoethane	15	U
108-88-3	-----Toluene	15	U
108-90-7	-----Chlorobenzene	15	U
100-41-4	-----Ethylbenzene	15	U
100-42-5	-----Styrene	15	U
1330-20-7	-----Xylene (total)	15	U
541-73-1	-----1,3-Dichlorobenzene	15	U
106-46-7	-----1,4-Dichlorobenzene	15	U
95-50-1	-----1,2-Dichlorobenzene	15	U
96-12-8	-----1,2-Dibromo-3-chloropropane	15	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL145

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 68755

Lab Sample ID: 355011                                      Date Received: 03/31/98

Lab File ID: L355011DV                                      Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                      Dilution Factor: 14.7

GC Column: DB-624    ID: 0.53    (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL139
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Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Lab Sample ID: 355013

Date Received: 03/31/98

Lab File ID: L355013DV

Date Analyzed: 04/02/98

Purge Volume: 5 (mL)

Dilution Factor: 2.9

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3-----	Chloromethane	3	U
74-83-9-----	Bromomethane	3	U
75-01-4-----	Vinyl Chloride	3	U
75-00-3-----	Chloroethane	3	U
75-09-2-----	Methylene Chloride	6	U
67-64-1-----	Acetone	15	U
75-15-0-----	Carbon Disulfide	3	U
75-35-4-----	1,1-Dichloroethene	3	U
75-34-3-----	1,1-Dichloroethane	3	U
156-59-2-----	cis-1,2-Dichloroethene	70	U
156-60-5-----	trans-1,2-Dichloroethene	3	U
67-66-3-----	Chloroform	3	U
107-06-2-----	1,2-Dichloroethane	3	U
78-93-3-----	2-Butanone	15	U
74-97-5-----	Bromochloromethane	3	U
71-55-6-----	1,1,1-Trichloroethane	0.9	J
56-23-5-----	Carbon Tetrachloride	3	U
75-27-4-----	Bromodichloromethane	3	U
78-87-5-----	1,2-Dichloropropane	3	U
10061-01-5-----	cis-1,3-Dichloropropene	3	U
79-01-6-----	Trichloroethene	2	J
124-48-1-----	Dibromochloromethane	3	U
79-00-5-----	1,1,2-Trichloroethane	3	U
71-43-2-----	Benzene	3	U
10061-02-6-----	trans-1,3-Dichloropropene	3	U
75-25-2-----	Bromoform	3	U
108-10-1-----	4-Methyl-2-Pentanone	15	U
591-78-6-----	2-Hexanone	15	U
127-18-4-----	Tetrachloroethene	3	U
79-34-5-----	1,1,2,2-Tetrachloroethane	3	U
106-93-4-----	1,2-Dibromoethane	3	U
108-88-3-----	Toluene	3	U
108-90-7-----	Chlorobenzene	3	U
100-41-4-----	Ethylbenzene	3	U
100-42-5-----	Styrene	3	U
1330-20-7-----	Xylene (total)	3	U
541-73-1-----	1,3-Dichlorobenzene	3	U
106-46-7-----	1,4-Dichlorobenzene	3	U
95-50-1-----	1,2-Dichlorobenzene	3	U
96-12-8-----	1,2-Dibromo-3-chloropropane	3	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL139

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 355013                                      Date Received: 03/31/98

Lab File ID: L355013DV                                      Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                                      Dilution Factor: 2.9

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL160

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Lab Sample ID: 355015

Date Received: 03/31/98

Lab File ID: L355015DV

Date Analyzed: 04/02/98

Purge Volume: 5 (mL)

Dilution Factor: 2.9

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	3	U
74-83-9	-----Bromomethane	3	U
75-01-4	-----Vinyl Chloride	3	U
75-00-3	-----Chloroethane	3	U
75-09-2	-----Methylene Chloride	6	U
67-64-1	-----Acetone	15	U
75-15-0	-----Carbon Disulfide	3	U
75-35-4	-----1,1-Dichloroethene	3	U
75-34-3	-----1,1-Dichloroethane	3	U
156-59-2	-----cis-1,2-Dichloroethene	72	U
156-60-5	-----trans-1,2-Dichloroethene	3	U
67-66-3	-----Chloroform	3	U
107-06-2	-----1,2-Dichloroethane	3	U
78-93-3	-----2-Butanone	15	U
74-97-5	-----Bromochloromethane	3	U
71-55-6	-----1,1,1-Trichloroethane	0.9	J
56-23-5	-----Carbon Tetrachloride	3	U
75-27-4	-----Bromodichloromethane	3	U
78-87-5	-----1,2-Dichloropropane	3	U
10061-01-5	-----cis-1,3-Dichloropropene	3	U
79-01-6	-----Trichloroethene	2	J
124-48-1	-----Dibromochloromethane	3	U
79-00-5	-----1,1,2-Trichloroethane	3	U
71-43-2	-----Benzene	3	U
10061-02-6	-----trans-1,3-Dichloropropene	3	U
75-25-2	-----Bromoform	3	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	3	U
79-34-5	-----1,1,2,2-Tetrachloroethane	3	U
106-93-4	-----1,2-Dibromoethane	3	U
108-88-3	-----Toluene	3	U
108-90-7	-----Chlorobenzene	3	U
100-41-4	-----Ethylbenzene	3	U
100-42-5	-----Styrene	3	U
1330-20-7	-----Xylene (total)	3	U
541-73-1	-----1,3-Dichlorobenzene	3	U
106-46-7	-----1,4-Dichlorobenzene	3	U
95-50-1	-----1,2-Dichlorobenzene	3	U
96-12-8	-----1,2-Dibromo-3-chloropropane	3	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL160

Lab Name: ITS ENVIRONMENTAL      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:      SDG No.: 68755

Lab Sample ID: 355015      Date Received: 03/31/98

Lab File ID: L355015DV      Date Analyzed: 04/02/98

Purge Volume: 5      (mL)      Dilution Factor: 2.9

GC Column: DB-624      ID: 0.53      (mm) Length: 75      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKI4
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Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: VBLKI4                                      Date Received: \_\_\_\_\_

Lab File ID: LLTB001QV                                      Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	1	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	1	U
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	2	U
67-64-1	-----Acetone	5	U
75-15-0	-----Carbon Disulfide	1	U
75-35-4	-----1,1-Dichloroethene	1	U
75-34-3	-----1,1-Dichloroethane	1	U
156-59-2	-----cis-1,2-Dichloroethene	1	U
156-60-5	-----trans-1,2-Dichloroethene	1	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	1	U
78-93-3	-----2-Butanone	5	U
74-97-5	-----Bromochloromethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	1	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	1	U
10061-01-5	-----cis-1,3-Dichloropropene	1	U
79-01-6	-----Trichloroethene	1	U
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	1	U
71-43-2	-----Benzene	1	U
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	1	U
108-10-1	-----4-Methyl-2-Pentanone	5	U
591-78-6	-----2-Hexanone	5	U
127-18-4	-----Tetrachloroethene	1	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1	U
106-93-4	-----1,2-Dibromoethane	1	U
108-88-3	-----Toluene	1	U
108-90-7	-----Chlorobenzene	1	U
100-41-4	-----Ethylbenzene	1	U
100-42-5	-----Styrene	1	U
1330-20-7	-----Xylene (total)	1	U
541-73-1	-----1,3-Dichlorobenzene	1	U
106-46-7	-----1,4-Dichlorobenzene	1	U
95-50-1	-----1,2-Dichlorobenzene	1	U
96-12-8	-----1,2-Dibromo-3-chloropropane	1	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKI4

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: VBLKI4                                      Date Received: \_\_\_\_\_

Lab File ID: LLTB001QV                                      Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJ3

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Lab Sample ID: VBLKJ3

Date Received: \_\_\_\_\_

Lab File ID: LLTB001CV

Date Analyzed: 04/07/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
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74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon Disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-Pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylene (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-cnloropropane	1	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKJ3

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: VBLKJ3                                      Date Received: \_\_\_\_\_

Lab File ID: LLTB001CV                                      Date Analyzed: 04/07/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJ7

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: VBLKJ7                                      Date Received: \_\_\_\_\_

Lab File ID: LLTB001DV                                      Date Analyzed: 04/08/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	1	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	1	U
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	2	U
67-64-1	-----Acetone	5	U
75-15-0	-----Carbon Disulfide	1	U
75-35-4	-----1,1-Dichloroethene	1	U
75-34-3	-----1,1-Dichloroethane	1	U
156-59-2	-----cis-1,2-Dichloroethene	1	U
156-60-5	-----trans-1,2-Dichloroethene	1	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	1	U
78-93-3	-----2-Butanone	5	U
74-97-5	-----Bromochloromethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	1	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	1	U
10061-01-5	-----cis-1,3-Dichloropropene	1	U
79-01-6	-----Trichloroethene	1	U
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	1	U
71-43-2	-----Benzene	1	U
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	1	U
108-10-1	-----4-Methyl-2-Pentanone	5	U
591-78-6	-----2-Hexanone	5	U
127-18-4	-----Tetrachloroethene	1	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1	U
106-93-4	-----1,2-Dibromoethane	1	U
108-88-3	-----Toluene	1	U
108-90-7	-----Chlorobenzene	1	U
100-41-4	-----Ethylbenzene	1	U
100-42-5	-----Styrene	1	U
1330-20-7	-----Xylene (total)	1	U
541-73-1	-----1,3-Dichlorobenzene	1	U
106-46-7	-----1,4-Dichlorobenzene	1	U
95-50-1	-----1,2-Dichlorobenzene	1	U
96-12-8	-----1,2-Dibromo-3-chloropropane	1	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKJ7

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 68755

Lab Sample ID: VBLKJ7                                      Date Received: \_\_\_\_\_

Lab File ID: LLTB001DV                                      Date Analyzed: 04/08/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624    ID: 0.53 (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKK2

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Lab Sample ID: VBLKK2

Date Received: \_\_\_\_\_

Lab File ID: LLTB001EV

Date Analyzed: 04/09/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	1	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	1	U
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	2	U
67-64-1	-----Acetone	5	U
75-15-0	-----Carbon Disulfide	1	U
75-35-4	-----1,1-Dichloroethene	1	U
75-34-3	-----1,1-Dichloroethane	1	U
156-59-2	-----cis-1,2-Dichloroethene	1	U
156-60-5	-----trans-1,2-Dichloroethene	1	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	1	U
78-93-3	-----2-Butanone	5	U
74-97-5	-----Bromochloromethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	1	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	1	U
10061-01-5	-----cis-1,3-Dichloropropene	1	U
79-01-6	-----Trichloroethene	1	U
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	1	U
71-43-2	-----Benzene	1	U
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	1	U
108-10-1	-----4-Methyl-2-Pentanone	5	U
591-78-6	-----2-Hexanone	5	U
127-18-4	-----Tetrachloroethene	1	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1	U
106-93-4	-----1,2-Dibromoethane	1	U
108-88-3	-----Toluene	1	U
108-90-7	-----Chlorobenzene	1	U
100-41-4	-----Ethylbenzene	1	U
100-42-5	-----Styrene	1	U
1330-20-7	-----Xylene (total)	1	U
541-73-1	-----1,3-Dichlorobenzene	1	U
106-46-7	-----1,4-Dichlorobenzene	1	U
95-50-1	-----1,2-Dichlorobenzene	1	U
96-12-8	-----1,2-Dibromo-3-chloropropane	1	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKK2

Lab Name: ITS ENVIRONMENTAL      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:      SDG No.: 68755

Lab Sample ID: VBLKK2      Date Received: \_\_\_\_\_

Lab File ID: LLTB001EV      Date Analyzed: 04/09/98

Purge Volume: 5 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL139MS

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 355013MS                      Date Received: 03/31/98

Lab File ID: L355013MSDV                      Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                      Dilution Factor: 2.9

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	3	U
74-83-9	-----Bromomethane	3	U
75-01-4	-----Vinyl Chloride	13	_____
75-00-3	-----Chloroethane	3	U
75-09-2	-----Methylene Chloride	6	U
67-64-1	-----Acetone	15	U
75-15-0	-----Carbon Disulfide	3	U
75-35-4	-----1,1-Dichloroethene	3	U
75-34-3	-----1,1-Dichloroethane	3	U
156-59-2	-----cis-1,2-Dichloroethene	69	_____
156-60-5	-----trans-1,2-Dichloroethene	3	U
67-66-3	-----Chloroform	3	U
107-06-2	-----1,2-Dichloroethane	16	_____
78-93-3	-----2-Butanone	15	U
74-97-5	-----Bromochloromethane	3	U
71-55-6	-----1,1,1-Trichloroethane	0.8	J
56-23-5	-----Carbon Tetrachloride	15	_____
75-27-4	-----Bromodichloromethane	3	U
78-87-5	-----1,2-Dichloropropane	13	_____
10061-01-5	-----cis-1,3-Dichloropropene	12	_____
79-01-6	-----Trichloroethene	16	_____
124-48-1	-----Dibromochloromethane	3	U
79-00-5	-----1,1,2-Trichloroethane	14	_____
71-43-2	-----Benzene	14	_____
10061-02-6	-----trans-1,3-Dichloropropene	3	U
75-25-2	-----Bromoform	11	_____
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	13	_____
79-34-5	-----1,1,2,2-Tetrachloroethane	3	U
106-93-4	-----1,2-Dibromoethane	14	_____
108-88-3	-----Toluene	3	U
108-90-7	-----Chlorobenzene	3	U
100-41-4	-----Ethylbenzene	3	U
100-42-5	-----Styrene	3	U
1330-20-7	-----Xylene (total)	3	U
541-73-1	-----1,3-Dichlorobenzene	3	U
106-46-7	-----1,4-Dichlorobenzene	12	_____
95-50-1	-----1,2-Dichlorobenzene	3	U
96-12-8	-----1,2-Dibromo-3-chloropropane	3	U

1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL139MSD

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 68755

Lab Sample ID: 355013MD                                      Date Received: 03/31/98

Lab File ID: L355013MDDV                                      Date Analyzed: 04/02/98

Purge Volume: 5                      (mL)                                      Dilution Factor: 2.9

GC Column: DB-624    ID: 0.53 (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	3	U
74-83-9	-----Bromomethane	3	U
75-01-4	-----Vinyl Chloride	13	U
75-00-3	-----Chloroethane	3	U
75-09-2	-----Methylene Chloride	6	U
67-64-1	-----Acetone	15	U
75-15-0	-----Carbon Disulfide	3	U
75-35-4	-----1,1-Dichloroethene	3	U
75-34-3	-----1,1-Dichloroethane	3	U
156-59-2	-----cis-1,2-Dichloroethene	66	U
156-60-5	-----trans-1,2-Dichloroethene	3	U
67-66-3	-----Chloroform	3	U
107-06-2	-----1,2-Dichloroethane	16	U
78-93-3	-----2-Butanone	15	U
74-97-5	-----Bromochloromethane	3	U
71-55-6	-----1,1,1-Trichloroethane	0.8	J
56-23-5	-----Carbon Tetrachloride	15	U
75-27-4	-----Bromodichloromethane	3	U
78-87-5	-----1,2-Dichloropropane	14	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	16	U
124-48-1	-----Dibromochloromethane	3	U
79-00-5	-----1,1,2-Trichloroethane	14	U
71-43-2	-----Benzene	14	U
10061-02-6	-----trans-1,3-Dichloropropene	3	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	14	U
79-34-5	-----1,1,2,2-Tetrachloroethane	3	U
106-93-4	-----1,2-Dibromoethane	15	U
108-88-3	-----Toluene	3	U
108-90-7	-----Chlorobenzene	3	U
100-41-4	-----Ethylbenzene	3	U
100-42-5	-----Styrene	3	U
1330-20-7	-----Xylene (total)	3	U
541-73-1	-----1,3-Dichlorobenzene	3	U
106-46-7	-----1,4-Dichlorobenzene	13	U
95-50-1	-----1,2-Dichlorobenzene	3	U
96-12-8	-----1,2-Dibromo-3-chloropropane	3	U

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LLTB LCS

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Lab Sample ID: LLTB LCS

Date Received: \_\_\_\_\_

Lab File ID: LLTO05BQV

Date Analyzed: 04/02/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	1	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	4	U
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	2	U
67-64-1	-----Acetone	5	U
75-15-0	-----Carbon Disulfide	1	U
75-35-4	-----1,1-Dichloroethene	1	U
75-34-3	-----1,1-Dichloroethane	1	U
156-59-2	-----cis-1,2-Dichloroethene	1	U
156-60-5	-----trans-1,2-Dichloroethene	1	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	4	U
78-93-3	-----2-Butanone	5	U
74-97-5	-----Bromochloromethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	4	U
10061-01-5	-----cis-1,3-Dichloropropene	4	U
79-01-6	-----Trichloroethene	4	U
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	4	U
71-43-2	-----Benzene	4	U
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	4	U
108-10-1	-----4-Methyl-2-Pentanone	5	U
591-78-6	-----2-Hexanone	5	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1	U
106-93-4	-----1,2-Dibromoethane	4	U
108-88-3	-----Toluene	1	U
108-90-7	-----Chlorobenzene	1	U
100-41-4	-----Ethylbenzene	1	U
100-42-5	-----Styrene	1	U
1330-20-7	-----Xylene (total)	1	U
541-73-1	-----1,3-Dichlorobenzene	1	U
106-46-7	-----1,4-Dichlorobenzene	4	U
95-50-1	-----1,2-Dichlorobenzene	1	U
96-12-8	-----1,2-Dibromo-3-chloropropane	1	U

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSBLK01

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 68755  
 Lab Sample ID: 355017 Date Received: 03/31/98  
 Lab File ID: L355017V Date Analyzed: 04/09/98  
 Purge Volume: 5 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	1	U
74-83-9	-----Bromomethane	1	U
75-01-4	-----Vinyl Chloride	1	U
75-00-3	-----Chloroethane	1	U
75-09-2	-----Methylene Chloride	2	U
67-64-1	-----Acetone	5	U
75-15-0	-----Carbon Disulfide	1	U
75-35-4	-----1,1-Dichloroethene	1	U
75-34-3	-----1,1-Dichloroethane	1	U
156-59-2	-----cis-1,2-Dichloroethene	1	U
156-60-5	-----trans-1,2-Dichloroethene	1	U
67-66-3	-----Chloroform	1	U
107-06-2	-----1,2-Dichloroethane	1	U
78-93-3	-----2-Butanone	5	U
74-97-5	-----Bromochloromethane	1	U
71-55-6	-----1,1,1-Trichloroethane	1	U
56-23-5	-----Carbon Tetrachloride	1	U
75-27-4	-----Bromodichloromethane	1	U
78-87-5	-----1,2-Dichloropropane	1	U
10061-01-5	-----cis-1,3-Dichloropropene	1	U
79-01-6	-----Trichloroethene	1	U
124-48-1	-----Dibromochloromethane	1	U
79-00-5	-----1,1,2-Trichloroethane	1	U
71-43-2	-----Benzene	1	U
10061-02-6	-----trans-1,3-Dichloropropene	1	U
75-25-2	-----Bromoform	1	U
108-10-1	-----4-Methyl-2-Pentanone	5	U
591-78-6	-----2-Hexanone	5	U
127-18-4	-----Tetrachloroethene	1	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1	U
106-93-4	-----1,2-Dibromoethane	1	U
108-88-3	-----Toluene	1	U
108-90-7	-----Chlorobenzene	1	U
100-41-4	-----Ethylbenzene	1	U
100-42-5	-----Styrene	1	U
1330-20-7	-----Xylene (total)	1	U
541-73-1	-----1,3-Dichlorobenzene	1	U
106-46-7	-----1,4-Dichlorobenzene	1	U
95-50-1	-----1,2-Dichlorobenzene	1	U
96-12-8	-----1,2-Dibromo-3-chloropropane	1	U



1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VSBLK01

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: 355017                                      Date Received: 03/31/98

Lab File ID: L355017V                                      Date Analyzed: 04/09/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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2LCA  
 LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

	EPA SAMPLE NO.	SMC1 %REC #	OTHER	TOT OUT
	-----	-----	-----	-----
01	VBLKI4	80		0
02	LLTB LCS	100		0
03	AL136	100		0
04	AL156	100		0
05	AL133	100		0
06	AL135	100		0
07	AL145	100		0
08	AL139	100		0
09	AL139MS	100		0
10	AL139MSD	100		0
11	AL160	100		0
12	VBLKJ3	100		0
13	AL156DL	100		0
14	AL147	100		0
15	AL161	100		0
16	VBLKJ7	80		0
17	AL161RE	100		0
18	VBLKK2	80		0
19	VSBLK01	80		0
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QC LIMITS  
 %REC  
 (80-120)

SMC1 = 4-Bromofluorobenzene

# Column to be used to flag recovery values.  
 \* Values outside of contract required QC limits.

FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Matrix Spike - ENGSC2 Sample No.: AL139

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Vinyl Chloride	15	0	13	87	60-140
1,2-Dichloroethane	15	0	16	107	60-140
Carbon Tetrachloride	15	0	15	100	60-140
1,2-Dichloropropane	15	0	13	87	60-140
cis-1,3-Dichloropropene	15	0	12	80	60-140
Trichloroethene	15	2	16	93	60-140
1,1,2-Trichloroethane	15	0	14	93	60-140
Benzene	15	0	14	93	60-140
Bromoform	15	0	11	73	60-140
Tetrachloroethene	15	0	13	87	60-140
1,2-Dibromoethane	15	0	14	93	60-140
1,4-Dichlorobenzene	15	0	12	80	60-140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Vinyl Chloride	15	13	87	0	20	60-140
1,2-Dichloroethane	15	16	107	0	20	60-140
Carbon Tetrachloride	15	15	100	0	20	60-140
1,2-Dichloropropane	15	14	93	7	20	60-140
cis-1,3-Dichloropropene	15	12	80	0	20	60-140
Trichloroethene	15	16	93	0	20	60-140
1,1,2-Trichloroethane	15	14	93	0	20	60-140
Benzene	15	14	93	0	20	60-140
Bromoform	15	12	80	9	20	60-140
Tetrachloroethene	15	14	93	7	20	60-140
1,2-Dibromoethane	15	15	100	7	20	60-140
1,4-Dichlorobenzene	15	13	87	8	20	60-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

COMMENTS:

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LLTB LCS

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab Sample ID: LLTB LCS    LCS Lot No.:  
 Lab File ID: LLTO05BQV    Date Analyzed: 04/02/98  
 Purge Volume: 5                      (mL)    Dilution Factor: 1.0  
 LCS Aliquot: 0                      (uL)

COMPOUND	CONC ADDED (ug/L)	CONC RECOVERED (ug/L)	%REC #	QC LIMITS
Vinyl Chloride	5	4	80	60-140
1,2-Dichloroethane	5	4	80	60-140
Carbon Tetrachloride	5	5	100	60-140
1,2-Dichloropropane	5	4	80	60-140
cis-1,3-Dichloropropene	5	4	80	60-140
Trichloroethene	5	4	80	60-140
1,1,2-Trichloroethane	5	4	80	60-140
Benzene	5	4	80	60-140
Bromoform	5	4	80	60-140
Tetrachloroethene	5	5	100	60-140
1,2-Dibromoethane	5	4	80	60-140
1,4-Dichlorobenzene	5	4	80	60-140

# Column to be used to flag LCS recovery with an asterisk.  
 \* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKI4

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: VBLKI4                                      Date Analyzed: 04/02/98

Lab File ID: LLTB001QV                                      Time Analyzed: 1357

Instrument ID: L

GC Column: DB-624      ID: 0.53 (mm)                      Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LLTB LCS	LLTB LCS	LLTOO5BQV	1429
02	AL136	354998	L354998DV	1924
03	AL156	355000	L355000DV	1952
04	AL133	355002	L355002V	2020
05	AL135	355007	L355007DV	2045
06	AL145	355011	L355011DV	2142
07	AL139	355013	L355013DV	2210
08	AL139MS	355013MS	L355013MSDV	2239
09	AL139MSD	355013MD	L355013MDDV	2307
10	AL160	355015	L355015DV	2336
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COMMENTS: \_\_\_\_\_

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4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKJ3

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755

Lab Sample ID: VBLKJ3                                      Date Analyzed: 04/07/98

Lab File ID: LLTB001CV                                      Time Analyzed: 0851

Instrument ID: L

GC Column: DB-624      ID: 0.53 (mm)                      Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	AL156DL	355000D1	L355000I2V	1017
02	AL147	355009	L355009I2V	1048
03	AL161	355006	L355006V	1114
04				
05				
06				
07				
08				
09				
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30				

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKJ7

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab Sample ID: VBLKJ7                                      Date Analyzed: 04/08/98  
 Lab File ID: LLTB001DV                                      Time Analyzed: 1547  
 Instrument ID: L  
 GC Column: DB-624      ID: 0.53 (mm)                      Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	AL161RE	355006R1	L355006I4V	1747
02				
03				
04				
05				
06				
07				
08				
09				
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COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKK2

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab Sample ID: VBLKK2                                      Date Analyzed: 04/09/98  
 Lab File ID: LLTB001EV                                      Time Analyzed: 1126  
 Instrument ID: L  
 GC Column: DB-624      ID: 0.53 (mm)                      Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSBLK01	355017	L355017V	2155
02				
03				
04				
05				
06				
07				
08				
09				
10				
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COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_



5LCA  
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab File ID: LLT001PV                              BFB Injection Date: 03/27/98  
 Instrument ID: L                                      BFB Injection Time: 0959  
 GC Column: DB-624      ID: 0.53 (mm) Length: 0 (m)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 ( 0.0)1
174	50.0 - 120.0% of mass 95	69.1
175	5.0 - 9.0% of mass 174	5.2 ( 7.5)1
176	95.0 - 101.0% of mass 174	66.9 ( 96.8)1
177	5.0 - 9.0% of mass 176	4.6 ( 6.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001	VSTD001	LLT001HV	03/27/98	1049
02	VSTD002	VSTD002	LLT002HV	03/27/98	1117
03	VSTD005	VSTD005	LLT005HV	03/27/98	1146
04	VSTD010	VSTD010	LLT010HV	03/27/98	1214
05	VSTD025	VSTD025	LLT025HV	03/27/98	1243
06					
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18					
19					
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22					

5LCA  
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab File ID: LLT004PV                                      BFB Injection Date: 04/02/98  
 Instrument ID: L    BFB Injection Time: 1307  
 GC Column: DB-624      ID: 0.53 (mm) Length: 0                      (m)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.7
75	30.0 - 60.0% of mass 95	44.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 ( 0.0)1
174	50.0 - 120.0% of mass 95	71.6
175	5.0 - 9.0% of mass 174	5.2 ( 7.3)1
176	95.0 - 101.0% of mass 174	69.5 ( 97.2)1
177	5.0 - 9.0% of mass 176	4.3 ( 6.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	LLT005BHV	04/02/98	1319
02	VBLKI4	VBLKI4	LLTB001QV	04/02/98	1357
03	LLTB LCS	LLTB LCS	LLT005BQV	04/02/98	1429
04	AL136	354998	L354998DV	04/02/98	1924
05	AL156	355000	L355000DV	04/02/98	1952
06	AL133	355002	L355002V	04/02/98	2020
07	AL135	355007	L355007DV	04/02/98	2045
08	AL145	355011	L355011DV	04/02/98	2142
09	AL139	355013	L355013DV	04/02/98	2210
10	AL139MS	355013MS	L355013MSDV	04/02/98	2239
11	AL139MSD	355013MD	L355013MDDV	04/02/98	2307
12	AL160	355015	L355015DV	04/02/98	2336
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5LCA  
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab File ID: LLT005PV                              BFB Injection Date: 04/07/98  
 Instrument ID: L                                      BFB Injection Time: 0740  
 GC Column: DB-624      ID: 0.53 (mm) Length: 0 (m)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.0
75	30.0 - 60.0% of mass 95	47.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 ( 0.0)1
174	50.0 - 120.0% of mass 95	70.7
175	5.0 - 9.0% of mass 174	4.9 ( 6.9)1
176	95.0 - 101.0% of mass 174	68.3 ( 96.6)1
177	5.0 - 9.0% of mass 176	4.4 ( 6.5)2

1-Value is % mass 174                                      2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	LLT005CHV	04/07/98	0750
02	VBLKJ3	VBLKJ3	LLTB001CV	04/07/98	0851
03	AL156DL	355000D1	L355000I2V	04/07/98	1017
04	AL147	355009	L355009I2V	04/07/98	1048
05	AL161	355006	L355006V	04/07/98	1114
06					
07					
08					
09					
10					
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5LCA  
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab File ID: LLQ019PV                              BFB Injection Date: 04/08/98  
 Instrument ID: L                                      BFB Injection Time: 1456  
 GC Column: DB-624      ID: 0.53 (mm) Length: 0 (m)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.2
75	30.0 - 60.0% of mass 95	47.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.2 ( 0.3)1
174	50.0 - 120.0% of mass 95	66.4
175	5.0 - 9.0% of mass 174	4.7 ( 7.1)1
176	95.0 - 101.0% of mass 174	65.6 ( 98.7)1
177	5.0 - 9.0% of mass 176	4.1 ( 6.3)2

1-Value is % mass 174                                      2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	LLT005DHV	04/08/98	1523
02	VBLKJ7	VBLKJ7	LLTB001DV	04/08/98	1547
03	AL161RE	355006R1	L355006I4V	04/08/98	1747
04					
05					
06					
07					
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09					
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15					
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5LCA  
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab File ID: LLT020PV                              BFB Injection Date: 04/09/98  
 Instrument ID: L                                      BFB Injection Time: 1043  
 GC Column: DB-624      ID: 0.53 (mm) Length: 0 (m)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	49.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.5 ( 0.7)1
174	50.0 - 120.0% of mass 95	69.7
175	5.0 - 9.0% of mass 174	5.2 ( 7.4)1
176	95.0 - 101.0% of mass 174	67.2 ( 96.4)1
177	5.0 - 9.0% of mass 176	4.6 ( 6.9)2

1-Value is % mass 174                                      2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	LLT005EHV	04/09/98	1057
02	VBLKK2	VBLKK2	LLTB001EV	04/09/98	1126
03	VSBLK01	355017	L355017V	04/09/98	2155
04					
05					
06					
07					
08					
09					
10					
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16					
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22					

## 6LCA

## LOW CONC. WATER VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Instrument ID: L

Calibration Date(s): 03/27/98 03/27/98

Calibration Time(s): 1049 1243

GC Column: DB-624

ID: 0.53 (mm)

LAB FILE ID:	RRF1 =LLT001HV	RRF2 =LLT002HV			RRF5 =LLT005HV	RRF10 =LLT010HV	RRF25 =LLT025HV	
COMPOUND	RRF1	RRF2	RRF5	RRF10	RRF25	RRF	% RSD	
Chloromethane	* 0.243	0.233	0.218	0.223	0.218	0.227	4.8*	
Bromomethane	* 0.232	0.213	0.188	0.181	0.179	0.199	11.6*	
Vinyl Chloride	* 0.274	0.282	0.271	0.269	0.262	0.272	2.6*	
Chloroethane	* 0.174	0.170	0.168	0.163	0.117	0.158	14.9*	
Methylene Chloride	* 0.335	0.322	0.321	0.307	0.296	0.316	4.7*	
Acetone	* 0.058	0.051	0.045	0.043	0.042	0.048	13.9*	
Carbon Disulfide	* 0.872	0.897	0.854	0.848	0.836	0.861	2.8*	
1,1-Dichloroethene	* 0.292	0.292	0.299	0.300	0.287	0.294	1.8*	
1,1-Dichloroethane	* 0.562	0.571	0.556	0.545	0.529	0.553	2.9*	
cis-1,2-Dichloroethene	* 0.340	0.351	0.345	0.341	0.336	0.343	1.6*	
trans-1,2-Dichloroethene	* 0.343	0.338	0.340	0.335	0.328	0.337	1.8*	
Chloroform	* 0.752	0.737	0.709	0.702	0.692	0.718	3.5*	
1,2-Dichloroethane	* 0.408	0.415	0.407	0.401	0.386	0.403	2.6*	
2-Butanone	* 0.102	0.093	0.096	0.087	0.085	0.093	7.4*	
Bromochloromethane	* 0.203	0.203	0.205	0.206	0.205	0.204	0.7*	
1,1,1-Trichloroethane	* 0.734	0.751	0.748	0.733	0.728	0.739	1.3*	
Carbon Tetrachloride	* 0.675	0.741	0.728	0.718	0.704	0.713	3.5*	
Bromodichloromethane	* 0.785	0.812	0.802	0.783	0.781	0.793	1.8*	
1,2-Dichloropropane	* 0.441	0.435	0.411	0.391	0.394	0.414	5.5*	
cis-1,3-Dichloropropene	* 0.593	0.644	0.651	0.643	0.664	0.639	4.2*	
Trichloroethene	* 0.491	0.507	0.491	0.480	0.474	0.489	2.6*	
Dibromochloromethane	* 0.625	0.665	0.682	0.670	0.671	0.663	3.3*	
1,1,2-Trichloroethane	* 0.363	0.376	0.378	0.374	0.376	0.373	1.6*	
Benzene	* 1.273	1.261	1.231	1.189	1.189	1.229	3.2*	
trans-1,3-Dichloropropene	* 0.558	0.534	0.558	0.565	0.566	0.556	2.4*	
Bromoform	* 0.440	0.468	0.481	0.474	0.494	0.471	4.2*	
4-Methyl-2-Pentanone	* 0.248	0.245	0.274	0.256	0.255	0.256	4.4*	
2-Hexanone	* 0.089	0.124	0.145	0.147	0.161	0.133	21.2*	
Tetrachloroethene	* 0.672	0.682	0.681	0.654	0.655	0.669	2.0*	
1,1,2,2-Tetrachloroethane	* 0.588	0.598	0.601	0.569	0.563	0.584	3.0*	
1,2-Dibromoethane	* 0.459	0.512	0.531	0.505	0.502	0.502	5.3*	
Toluene	* 1.385	1.378	1.328	1.273	1.267	1.326	4.2*	
Chlorobenzene	* 0.915	0.954	0.944	0.928	0.936	0.935	1.6*	
Ethylbenzene	* 1.605	1.697	1.682	1.620	1.608	1.642	2.7*	
Styrene	* 0.836	0.917	0.928	0.914	0.921	0.903	4.2*	
Xylene (total)	* 0.581	0.578	0.572	0.563	0.571	0.573	1.2*	
1,3-Dichlorobenzene	* 1.337	1.458	1.462	1.495	1.394	1.429	4.4*	
1,4-Dichlorobenzene	* 1.743	1.782	1.659	1.585	1.584	1.671	5.4*	
1,2-Dichlorobenzene	* 1.393	1.391	1.402	1.394	1.334	1.383	2.0*	
1,2-Dibromo-3-chloropropane	* 0.206	0.193	0.199	0.183	0.178	0.192	5.9*	
4-Bromofluorobenzene	* 0.384	0.404	0.416	0.421	0.410	0.407	3.5*	

\* Compounds with required minimum RRF and maximum %RSD values.

@ These compounds must meet only a minimum RRF of 0.010.

# These compounds have no minimum RRF and maximum %RSD values.

7LCA

## LOW CONC. WATER VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Instrument ID: L

Calibration Date: 04/02/98

Time: 1319

Lab File ID: LLT005BHV

Init. Calib. Date(s): 03/27/98

03/27/98

Init. Calib. Times: 1049

1243

GC Column: DB-624

ID: 0.53

(mm)

Length: 75

(m)

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.227	0.228	0.010	-0.4	
Bromomethane	0.199	0.194	0.100	2.5	30.0
Vinyl Chloride	0.272	0.276	0.100	-1.5	30.0
Chloroethane	0.158	0.178	0.010	-12.6	
Methylene Chloride	0.316	0.312	0.010	1.3	
Acetone	0.048	0.046		4.2	
Carbon Disulfide	0.861	0.849	0.010	1.4	
1,1-Dichloroethene	0.294	0.306	0.100	-4.1	30.0
1,1-Dichloroethane	0.553	0.570	0.200	-3.1	30.0
cis-1,2-Dichloroethene	0.343	0.356		-3.8	
trans-1,2-Dichloroethene	0.337	0.354		-5.0	
Chloroform	0.718	0.679	0.200	5.4	30.0
1,2-Dichloroethane	0.403	0.365	0.100	9.4	30.0
2-Butanone	0.093	0.091		2.2	
Bromochloromethane	0.204	0.197	0.050	3.4	30.0
1,1,1-Trichloroethane	0.739	0.725	0.100	1.9	30.0
Carbon Tetrachloride	0.713	0.680	0.100	4.6	30.0
Bromodichloromethane	0.793	0.779	0.200	1.8	30.0
1,2-Dichloropropane	0.414	0.445		-7.5	
cis-1,3-Dichloropropene	0.639	0.684	0.200	-7.0	30.0
Trichloroethene	0.489	0.496	0.300	-1.4	30.0
Dibromochloromethane	0.663	0.613	0.100	7.5	30.0
1,1,2-Trichloroethane	0.373	0.387	0.100	-3.8	30.0
Benzene	1.229	1.277	0.500	-3.9	30.0
trans-1,3-Dichloropropene	0.556	0.561	0.100	-0.9	30.0
Bromoform	0.471	0.449	0.050	4.7	30.0
4-Methyl-2-Pentanone	0.256	0.279		-9.0	
2-Hexanone	0.133	0.156		-17.3	
Tetrachloroethene	0.669	0.673	0.200	-0.6	30.0
1,1,2,2-Tetrachloroethane	0.584	0.600	0.100	-2.7	30.0
1,2-Dibromoethane	0.502	0.508	0.100	-1.2	30.0
Toluene	1.326	1.359	0.400	-2.5	30.0
Chlorobenzene	0.935	0.935	0.500	0.0	30.0
Ethylbenzene	1.642	1.660	0.100	-1.1	30.0
Styrene	0.903	0.908	0.300	-0.6	30.0
Xylene (total)	0.573	0.554	0.300	3.3	30.0
1,3-Dichlorobenzene	1.429	1.380	0.600	3.4	30.0
1,4-Dichlorobenzene	1.671	1.678	0.500	-0.4	30.0
1,2-Dichlorobenzene	1.383	1.395	0.400	-0.9	30.0
1,2-Dibromo-3-chloropropane	0.192	0.172		10.4	
4-Bromofluorobenzene	0.407	0.394	0.200	3.2	30.0

FORM VII LCV

OLC02.0

## 7LCA

## LOW CONC. WATER VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Instrument ID: L

Calibration Date: 04/07/98

Time: 0750

Lab File ID: LLT005CHV

Init. Calib. Date(s): 03/27/98

03/27/98

Init. Calib. Times: 1049

1243

GC Column: DB-624

ID: 0.53 (mm)

Length: 75

(m)

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.227	0.221	0.010	2.6	
Bromomethane	0.199	0.214	0.100	-7.5	30.0
Vinyl Chloride	0.272	0.266	0.100	2.2	30.0
Chloroethane	0.158	0.170	0.010	-7.6	
Methylene Chloride	0.316	0.302	0.010	4.4	
Acetone	0.048	0.048		0.0	
Carbon Disulfide	0.861	0.849	0.010	1.4	
1,1-Dichloroethene	0.294	0.294	0.100	0.0	30.0
1,1-Dichloroethane	0.553	0.554	0.200	-0.2	30.0
cis-1,2-Dichloroethene	0.343	0.332		3.2	
trans-1,2-Dichloroethene	0.337	0.328		2.7	
Chloroform	0.718	0.686	0.200	4.4	30.0
1,2-Dichloroethane	0.403	0.387	0.100	4.0	30.0
2-Butanone	0.093	0.094		-1.1	
Bromochloromethane	0.204	0.189	0.050	7.4	30.0
1,1,1-Trichloroethane	0.739	0.739	0.100	0.0	30.0
Carbon Tetrachloride	0.713	0.711	0.100	0.3	30.0
Bromodichloromethane	0.793	0.774	0.200	2.4	30.0
1,2-Dichloropropane	0.414	0.403		2.6	
cis-1,3-Dichloropropene	0.639	0.637	0.200	0.3	30.0
Trichloroethene	0.489	0.482	0.300	1.4	30.0
Dibromochloromethane	0.663	0.602	0.100	9.2	30.0
1,1,2-Trichloroethane	0.373	0.373	0.100	0.0	30.0
Benzene	1.229	1.228	0.500	0.1	30.0
trans-1,3-Dichloropropene	0.556	0.567	0.100	-2.0	30.0
Bromoform	0.471	0.406	0.050	13.8	30.0
4-Methyl-2-Pentanone	0.256	0.285		-11.3	
2-Hexanone	0.133	0.150		-12.8	
Tetrachloroethene	0.669	0.644	0.200	3.7	30.0
1,1,2,2-Tetrachloroethane	0.584	0.602	0.100	-3.1	30.0
1,2-Dibromoethane	0.502	0.510	0.100	-1.6	30.0
Toluene	1.326	1.276	0.400	3.8	30.0
Chlorobenzene	0.935	0.917	0.500	1.9	30.0
Ethylbenzene	1.642	1.605	0.100	2.2	30.0
Styrene	0.903	0.859	0.300	4.9	30.0
Xylene (total)	0.573	0.549	0.300	4.2	30.0
1,3-Dichlorobenzene	1.429	1.448	0.600	-1.3	30.0
1,4-Dichlorobenzene	1.671	1.573	0.500	5.9	30.0
1,2-Dichlorobenzene	1.383	1.328	0.400	4.0	30.0
1,2-Dibromo-3-chloropropane	0.192	0.200		-4.2	
4-Bromofluorobenzene	0.407	0.392	0.200	3.7	30.0



## 7LCA

## LOW CONC. WATER VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Instrument ID: L

Calibration Date: 04/08/98

Time: 1523

Lab File ID: LLT005DHV

Init. Calib. Date(s): 03/27/98

03/27/98

Init. Calib. Times: 1049

1243

GC Column: DB-624

ID: 0.53 (mm)

Length: 75

(m)

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.227	0.311	0.010	-37.0	
Bromomethane	0.199	0.239	0.100	-20.1	30.0
Vinyl Chloride	0.272	0.330	0.100	-21.3	30.0
Chloroethane	0.158	0.205	0.010	-29.7	
Methylene Chloride	0.316	0.315	0.010	0.3	
Acetone	0.048	0.052		-8.3	
Carbon Disulfide	0.861	0.989	0.010	-14.9	
1,1-Dichloroethene	0.294	0.307	0.100	-4.4	30.0
1,1-Dichloroethane	0.553	0.583	0.200	-5.4	30.0
cis-1,2-Dichloroethene	0.343	0.344		-0.3	
trans-1,2-Dichloroethene	0.337	0.348		-3.3	
Chloroform	0.718	0.681	0.200	5.2	30.0
1,2-Dichloroethane	0.403	0.403	0.100	0.0	30.0
2-Butanone	0.093	0.098		-5.4	
Bromochloromethane	0.204	0.192	0.050	5.9	30.0
1,1,1-Trichloroethane	0.739	0.741	0.100	-0.3	30.0
Carbon Tetrachloride	0.713	0.688	0.100	3.5	30.0
Bromodichloromethane	0.793	0.800	0.200	-0.9	30.0
1,2-Dichloropropane	0.414	0.419		-1.2	
cis-1,3-Dichloropropene	0.639	0.690	0.200	-8.0	30.0
Trichloroethene	0.489	0.484	0.300	1.0	30.0
Dibromochloromethane	0.663	0.613	0.100	7.5	30.0
1,1,2-Trichloroethane	0.373	0.383	0.100	-2.7	30.0
Benzene	1.229	1.252	0.500	-1.9	30.0
trans-1,3-Dichloropropene	0.556	0.576	0.100	-3.6	30.0
Bromoform	0.471	0.416	0.050	11.7	30.0
4-Methyl-2-Pentanone	0.256	0.299		-16.8	
2-Hexanone	0.133	0.172		-29.3	
Tetrachloroethene	0.669	0.627	0.200	6.3	30.0
1,1,2,2-Tetrachloroethane	0.584	0.604	0.100	-3.4	30.0
1,2-Dibromoethane	0.502	0.496	0.100	1.2	30.0
Toluene	1.326	1.330	0.400	-0.3	30.0
Chlorobenzene	0.935	0.885	0.500	5.3	30.0
Ethylbenzene	1.642	1.645	0.100	-0.2	30.0
Styrene	0.903	0.894	0.300	1.0	30.0
Xylene (total)	0.573	0.541	0.300	5.6	30.0
1,3-Dichlorobenzene	1.429	1.432	0.600	-0.2	30.0
1,4-Dichlorobenzene	1.671	1.653	0.500	1.1	30.0
1,2-Dichlorobenzene	1.383	1.383	0.400	0.0	30.0
1,2-Dibromo-3-chloropropane	0.192	0.216		-12.5	
4-Bromofluorobenzene	0.407	0.393	0.200	3.4	30.0

## LOW CONC. WATER VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 68755

Instrument ID: L

Calibration Date: 04/09/98

Time: 1057

Lab File ID: LLT005EHV

Init. Calib. Date(s): 03/27/98

03/27/98

Init. Calib. Times: 1049

1243

GC Column: DB-624

ID: 0.53

(mm)

Length: 75

(m)

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.227	0.303	0.010	-33.5	
Bromomethane	0.199	0.212	0.100	-6.5	30.0
Vinyl Chloride	0.272	0.323	0.100	-18.8	30.0
Chloroethane	0.158	0.193	0.010	-22.2	
Methylene Chloride	0.316	0.306	0.010	3.2	
Acetone	0.048	0.053		-10.4	
Carbon Disulfide	0.861	0.909	0.010	-5.6	
1,1-Dichloroethene	0.294	0.294	0.100	0.0	30.0
1,1-Dichloroethane	0.553	0.578	0.200	-4.5	30.0
cis-1,2-Dichloroethene	0.343	0.340		0.9	
trans-1,2-Dichloroethene	0.337	0.348		-3.3	
Chloroform	0.718	0.711	0.200	1.0	30.0
1,2-Dichloroethane	0.403	0.402	0.100	0.2	30.0
2-Butanone	0.093	0.090		3.2	
Bromochloromethane	0.204	0.203	0.050	0.5	30.0
1,1,1-Trichloroethane	0.739	0.764	0.100	-3.4	30.0
Carbon Tetrachloride	0.713	0.732	0.100	-2.7	30.0
Bromodichloromethane	0.793	0.796	0.200	-0.4	30.0
1,2-Dichloropropane	0.414	0.417		-0.7	
cis-1,3-Dichloropropene	0.639	0.649	0.200	-1.6	30.0
Trichloroethene	0.489	0.486	0.300	0.6	30.0
Dibromochloromethane	0.663	0.629	0.100	5.1	30.0
1,1,2-Trichloroethane	0.373	0.384	0.100	-2.9	30.0
Benzene	1.229	1.268	0.500	-3.2	30.0
trans-1,3-Dichloropropene	0.556	0.569	0.100	-2.3	30.0
Bromoform	0.471	0.415	0.050	11.9	30.0
4-Methyl-2-Pentanone	0.256	0.275		-7.4	
2-Hexanone	0.133	0.167		-25.6	
Tetrachloroethene	0.669	0.646	0.200	3.4	30.0
1,1,2,2-Tetrachloroethane	0.584	0.600	0.100	-2.7	30.0
1,2-Dibromoethane	0.502	0.522	0.100	-4.0	30.0
Toluene	1.326	1.290	0.400	2.7	30.0
Chlorobenzene	0.935	0.922	0.500	1.4	30.0
Ethylbenzene	1.642	1.636	0.100	0.4	30.0
Styrene	0.903	0.911	0.300	-0.9	30.0
Xylene (total)	0.573	0.564	0.300	1.6	30.0
1,3-Dichlorobenzene	1.429	1.464	0.600	-2.4	30.0
1,4-Dichlorobenzene	1.671	1.638	0.500	2.0	30.0
1,2-Dichlorobenzene	1.383	1.357	0.400	1.9	30.0
1,2-Dibromo-3-chloropropane	0.192	0.197		-2.6	
4-Bromofluorobenzene	0.407	0.421	0.200	-3.4	30.0

8LCA  
 LOW CONC. WATER VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab File ID (Standard): LLT005BHV                      Date Analyzed: 04/02/98  
 Instrument ID: L    Time Analyzed: 1319  
 GC Column: DB-624      ID: 0.53 (mm) Length: 75 (m)

	IS1 (DFB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	650872	11.27	542264	17.17	352942	20.37
UPPER LIMIT	911221	11.60	759170	17.50	494119	20.70
LOWER LIMIT	390523	10.94	325358	16.83	211765	20.03
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKI4	658665	11.26	551239	17.17	357091	20.37
02 LLTB LCS	611022	11.26	501338	17.17	341892	20.37
03 AL136	499828	11.24	410480	17.17	265121	20.36
04 AL156	508829	11.24	426417	17.17	275554	20.36
05 AL133	493936	11.24	421427	17.17	266861	20.38
06 AL135	493150	11.24	418633	17.17	264283	20.36
07 AL145	507567	11.24	434414	17.17	270371	20.36
08 AL139	486057	11.26	406853	17.17	263258	20.36
09 AL139MS	480344	11.24	409165	17.17	265067	20.37
10 AL139MSD	486411	11.24	406510	17.17	265998	20.38
11 AL160	497320	11.26	424358	17.17	269063	20.38
12						
13						
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22						

IS1 (DFB) = 1,4-Difluorobenzene  
 IS2 (CBZ) = Chlorobenzene-d5  
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 40% of internal standard area.  
 AREA LOWER LIMIT = - 40% of internal standard area.  
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

# Column used to flag internal standard area and RT values with an asterisk.  
 \* Values outside of QC limits.

8LCA  
 LOW CONC. WATER VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab File ID (Standard): LLT005CHV                      Date Analyzed: 04/07/98  
 Instrument ID: L    Time Analyzed: 0750  
 GC Column: DB-624      ID: 0.53 (mm) Length: 75 (m)

	IS1 (DFB)		IS2 (CBZ)		IS3 (DCB)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	511243	11.27	432525	17.16	282874	20.38
UPPER LIMIT	715740	11.60	605535	17.49	396024	20.71
LOWER LIMIT	306746	10.93	259515	16.83	169724	20.05
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKJ3	502004	11.24	414589	17.17	274884	20.38
02 AL156DL	491441	11.26	417489	17.17	269497	20.37
03 AL147	476586	11.26	412984	17.17	262149	20.38
04 AL161	492525	11.26	423605	17.17	269674	20.37
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22						

IS1 (DFB) = 1,4-Difluorobenzene  
 IS2 (CBZ) = Chlorobenzene-d5  
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 40% of internal standard area.  
 AREA LOWER LIMIT = - 40% of internal standard area.  
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

# Column used to flag internal standard area and RT values with an asterisk.  
 \* Values outside of QC limits.

8LCA  
 LOW CONC. WATER VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab File ID (Standard): LLT005DHV                      Date Analyzed: 04/08/98  
 Instrument ID: L    Time Analyzed: 1523  
 GC Column: DB-624      ID: 0.53 (mm) Length: 75 (m)

	IS1 (DFB)		IS2 (CBZ)		IS3 (DCB)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	550389	11.27	471287	17.18	294787	20.38
UPPER LIMIT	770545	11.60	659802	17.52	412702	20.72
LOWER LIMIT	330233	10.94	282772	16.85	176872	20.05
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKJ7	576357	11.26	481095	17.17	310920	20.39
02 AL161RE	541481	11.25	517266	17.17	360947	20.39
03						
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22						

IS1 (DFB) = 1,4-Difluorobenzene  
 IS2 (CBZ) = Chlorobenzene-d5  
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 40% of internal standard area.  
 AREA LOWER LIMIT = - 40% of internal standard area.  
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

# Column used to flag internal standard area and RT values with an asterisk.  
 \* Values outside of QC limits.

8LCA  
 LOW CONC. WATER VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 68755  
 Lab File ID (Standard): LLT005EHV                      Date Analyzed: 04/09/98  
 Instrument ID: L    Time Analyzed: 1057  
 GC Column: DB-624      ID: 0.53 (mm) Length: 75 (m)

	IS1 (DFB)		IS2 (CBZ)		IS3 (DCB)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	466943	11.25	394442	17.16	254925	20.38
UPPER LIMIT	653720	11.58	552219	17.49	356895	20.71
LOWER LIMIT	280166	10.91	236665	16.83	152955	20.04
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKK2	515717	11.24	424850	17.17	272771	20.38
02 VSBLK01	477943	11.24	392798	17.17	247407	20.38
03						
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20						
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22						

IS1 (DFB) = 1,4-Difluorobenzene  
 IS2 (CBZ) = Chlorobenzene-d5  
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 40% of internal standard area.  
 AREA LOWER LIMIT = - 40% of internal standard area.  
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

# Column used to flag internal standard area and RT values with an asterisk.  
 \* Values outside of QC limits.

### **3. Evergreen Analytical**





# Evergreen Analytical Laboratory

98-1207

## WORK ORDER Summary

27-Mar 10:22 am

Report To: Kerry Smith

Parsons Engineering Science  
30 Dan Road  
Canton, MA 02021-2809

Client Project ID: 730769-01005

Phone: (781) 401-3200  
FAX: (781) 401-2575

### Comments:

QC Level: MS/MSD required on Client samples

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
98-1207-01A	AL153	Methane. Ethane. Ethene		Water	2	24-Mar-98	27-Mar-98	10-Apr-98	07-Apr-98
98-1207-02A	AL154	Methane. Ethane. Ethene						10-Apr-98	07-Apr-98
98-1207-03A	AL142	Methane. Ethane. Ethene						10-Apr-98	07-Apr-98
98-1207-04A	AL155	Methane. Ethane. Ethene				25-Mar-98		10-Apr-98	08-Apr-98
98-1207-05A	AL148	Methane. Ethane. Ethene						10-Apr-98	08-Apr-98

WU# 98-1207 BOF# N/A  
 C/S(O) N/A / N/A C/S(I) C / CO  
 Temp (C) 2 Seals intact  / N / NA  
 Pres Y /  / NA Hd Sp Y /  / NA  
 Loc 2 Container 40V By JD

10040

PAGE 1 OF 1



30 Dan Road  
Canton, MA 02021  
Phone: 781-401-3200  
Fax: 781-401-2575

# CHAIN-OF-CUSTODY

JOB NO. Sareea 1st Qtr. 98  
 PROJECT 730769-01005  
 CONTACT M. Luc Duchesneau

ADDRESS 4775 Evergreen  
What Ridge CO  
 CONTACT Shea Grainer

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)		
		DATE	TIME			VOA	SVOC	METALS	CN									M/E/E	
AL153		3/24/98	1135		water												X	3	-01 A
AL154		↓	1415		↓												X	3	-02
AL142		↓	1540														X	3	-03
AL155		3/25/98	0915														X	3	-04
AL148		↓	1330		↓												X	3	-05 ↓
<del>KKS</del>																			

Sampled and Relinquished by  
 Sign Michael Wilkinson  
 Print Michael Wilkinson  
 Firm Parsons ES  
 Date 3-26-98 Time 1100

Received by  
 Sign J DeChart  
 Print J DeChart  
 Firm EAC  
 Date 3/27/98 Time 940

VOA Vial  X  
 Glass Bottle  
 Plastic Bottle  
 Preservative  A  
 Container Volume 40 5-1

REMARKS: (Sample storage, nonstandard sample bottles)  
 Project # 98-1785

Relinquished by  
 Sign  
 Print  
 Firm  
 Date Time

Received by  
 Sign  
 Print  
 Firm  
 Date Time

PRESERVATION KEY:  
 C - Acidified with HCl  
 F - NaOH + Ascorbic  
 G - Other  
 A - Ice  
 D - Acidified with HNO<sub>3</sub>  
 B - Filtered  
 E - Acidified with H<sub>2</sub>SO<sub>4</sub>

Evidence Samples tampered with?  No  Yes  
 If Yes, explain in remarks.

Cooler #: #29

EVERGREEN ANALYTICAL, INC.  
 4036 Youngfield St. Wheat Ridge, CO 80033  
 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL153	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1207-01	Lab Work Order	: 98-1207
Date Sampled	: 3/24/98	Dilution Factor	: 1.00
Date Received	: 3/27/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/1/98	Matrix	: Water
Date Analyzed	: 4/1/98	Lab File No.	: GAS0401006

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

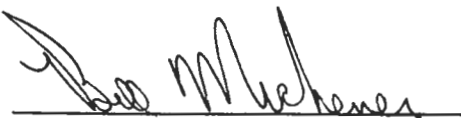
Temperature	: 74.1 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		


**Qualifiers**

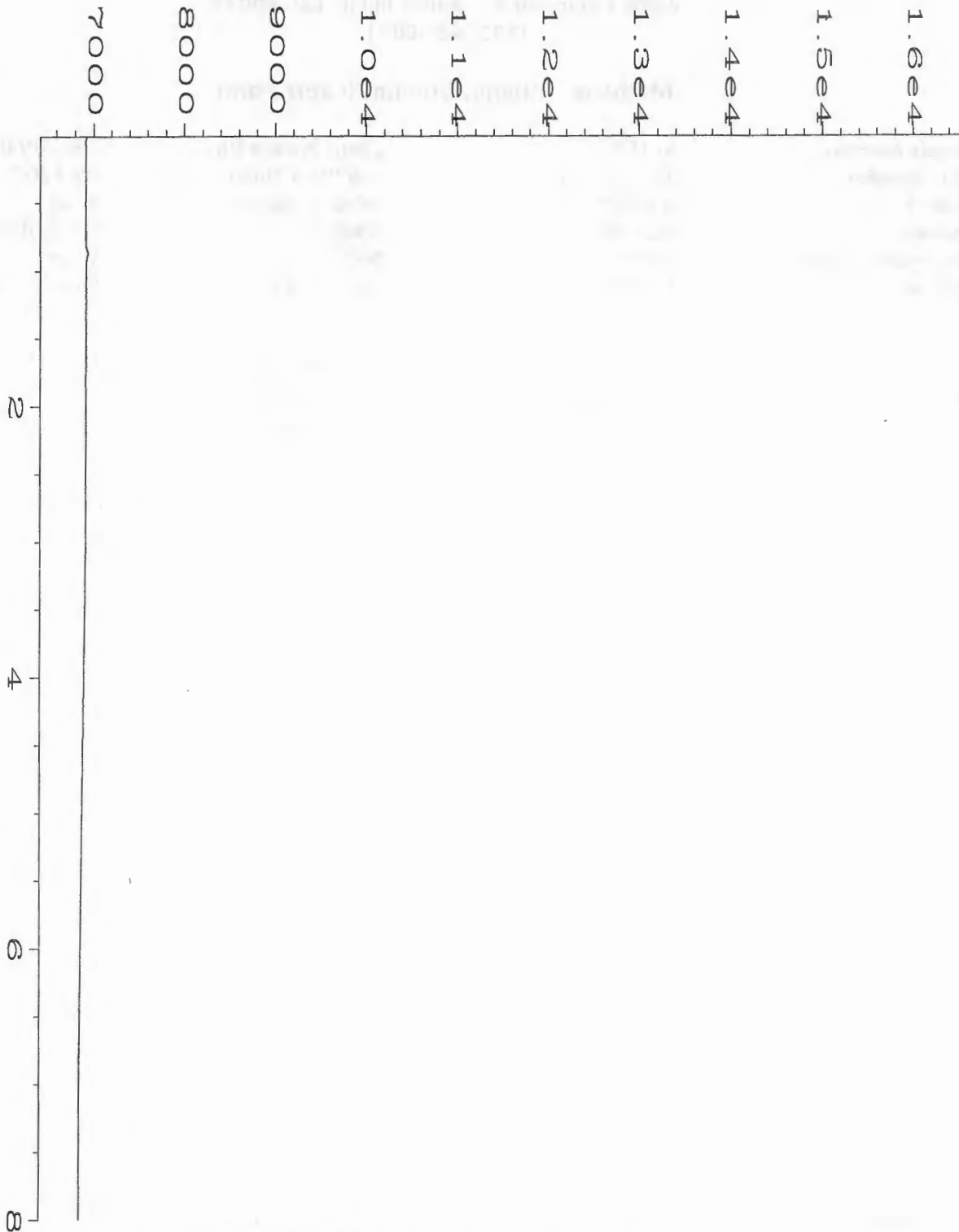
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
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 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\006R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 6
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1207-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 07:41 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:17 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL153		
	DF=1		

EVERGREEN ANALYTICAL, INC.  
 4036 Youngfield St. Wheat Ridge, CO 80033  
 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL154	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1207-02	Lab Work Order	: 98-1207
Date Sampled	: 3/24/98	Dilution Factor	: 1.00
Date Received	: 3/27/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/1/98	Matrix	: Water
Date Analyzed	: 4/1/98	Lab File No.	: GAS0401007

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 73.8 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

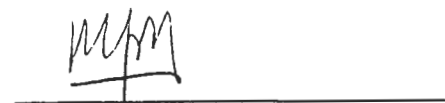
**Qualifiers**

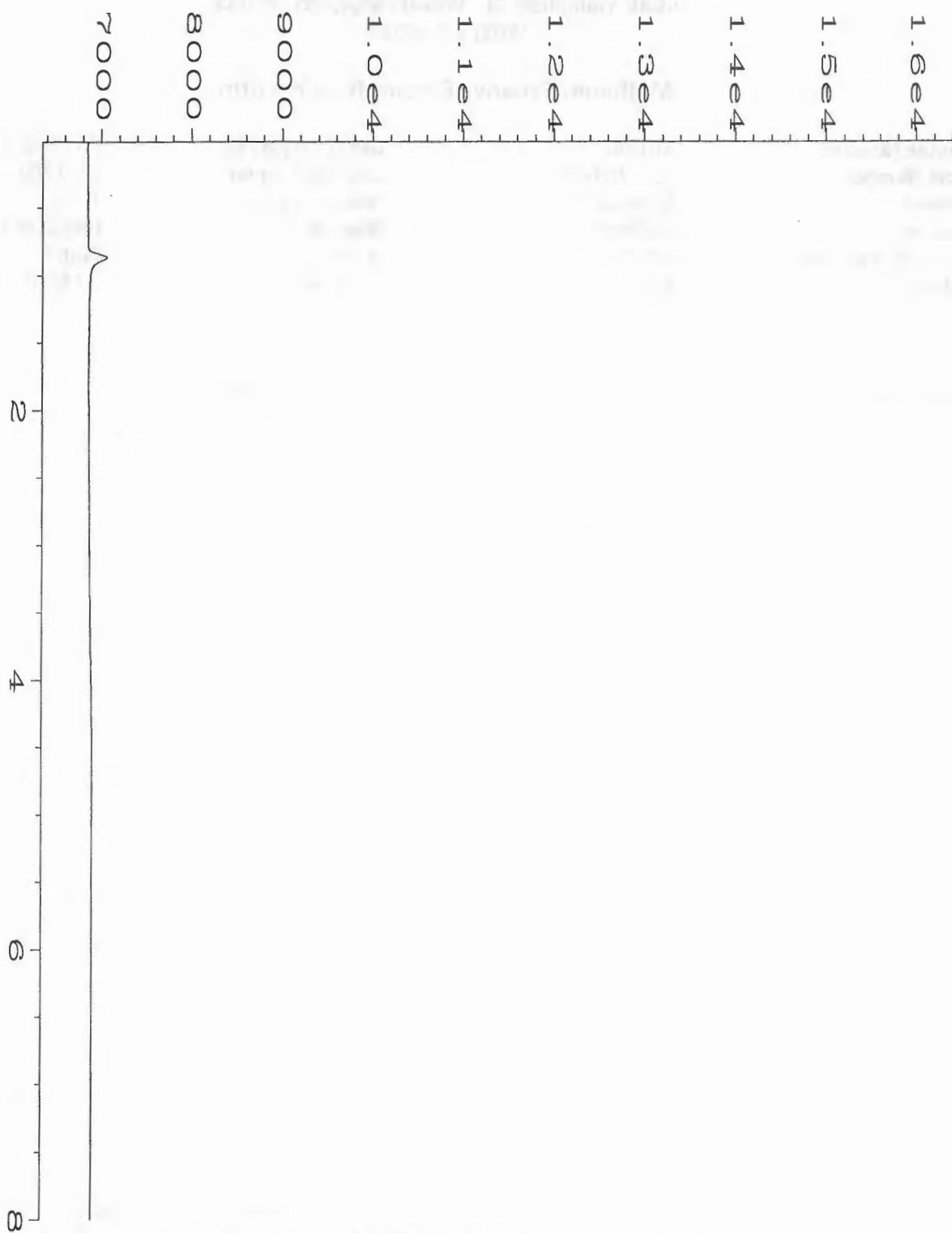
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\007R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 7
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1207-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 07:49 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:17 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL154		
	DF=1		

EVERGREEN ANALYTICAL, INC.  
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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL142	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1207-03	Lab Work Order	: 98-1207
Date Sampled	: 3/24/98	Dilution Factor	: 1.00
Date Received	: 3/27/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/1/98	Matrix	: Water
Date Analyzed	: 4/1/98	Lab File No.	: GAS0401008

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 73.8 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

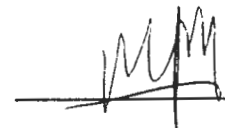
**Qualifiers**

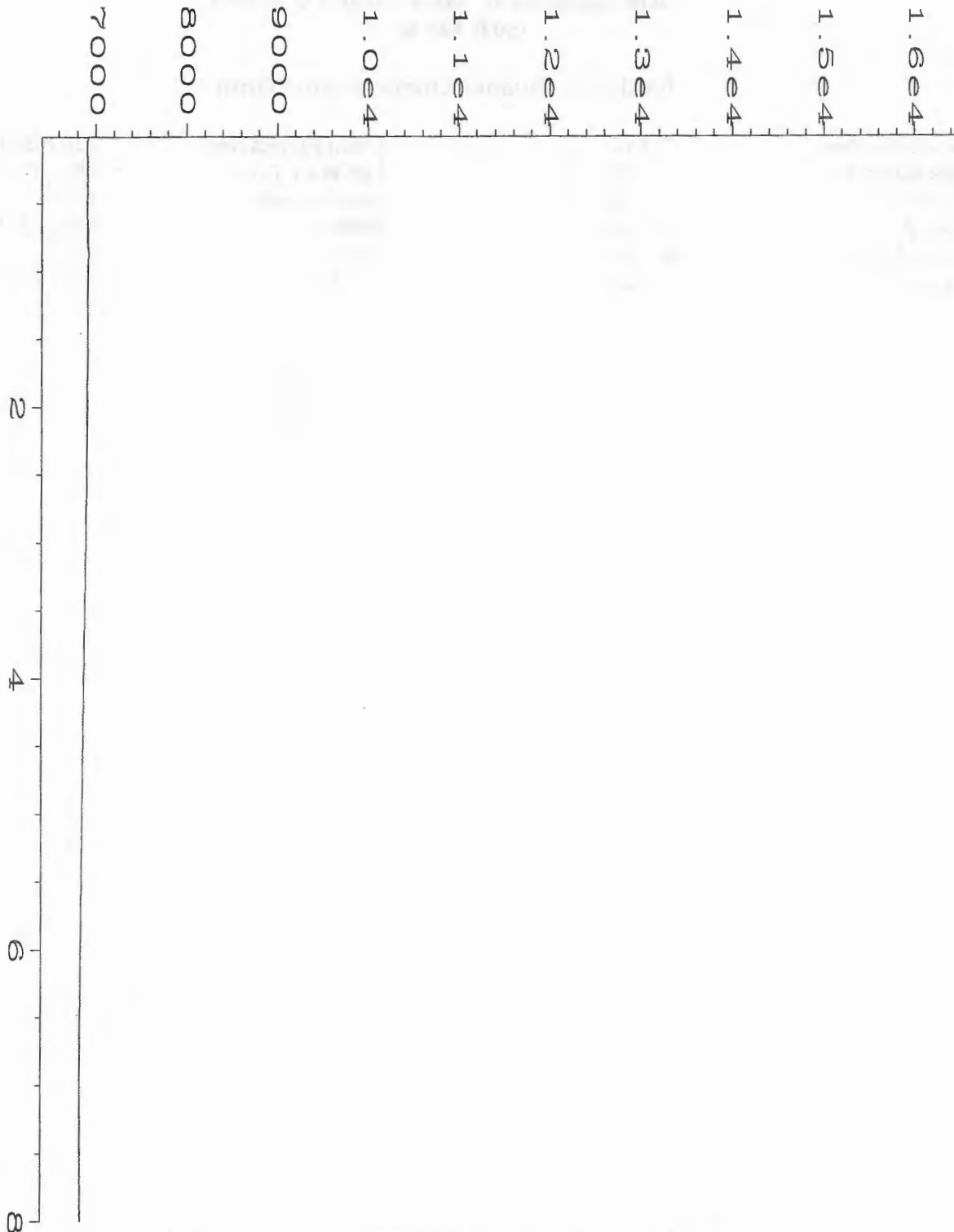
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 Analyst

  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\008R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 8
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1207-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 07:59 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:17 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL142		
	DF=1		



**EVERGREEN ANALYTICAL, INC.**  
**4036 Youngfield St. Wheat Ridge, CO 80033**  
**(303) 425-6021**

**Methane, Ethane, Ethene Report Form**

<b>Client Sample Number</b>	: AL155	<b>Client Project No.</b>	: 730769-01005
<b>Lab Sample Number</b>	: 98-1207-04	<b>Lab Work Order</b>	: 98-1207
<b>Date Sampled</b>	: 3/25/98	<b>Dilution Factor</b>	: 1.00
<b>Date Received</b>	: 3/27/98	<b>Method</b>	: RSKSOP-175M
<b>Date Extracted/Prepared</b>	: 4/1/98	<b>Matrix</b>	: Water
<b>Date Analyzed</b>	: 4/1/98	<b>Lab File No.</b>	: GAS0401009

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0027	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

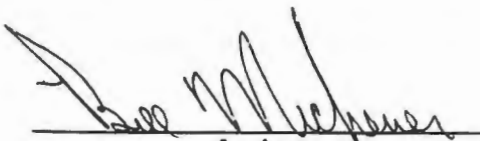
Temperature	: 73.8 F	Saturation	Meth	0.000662452
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.002080195
Head space created	: 4 ml	in Head Space		
Methane Area	: 15.405 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

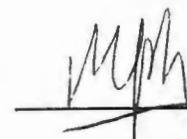
**Qualifiers**

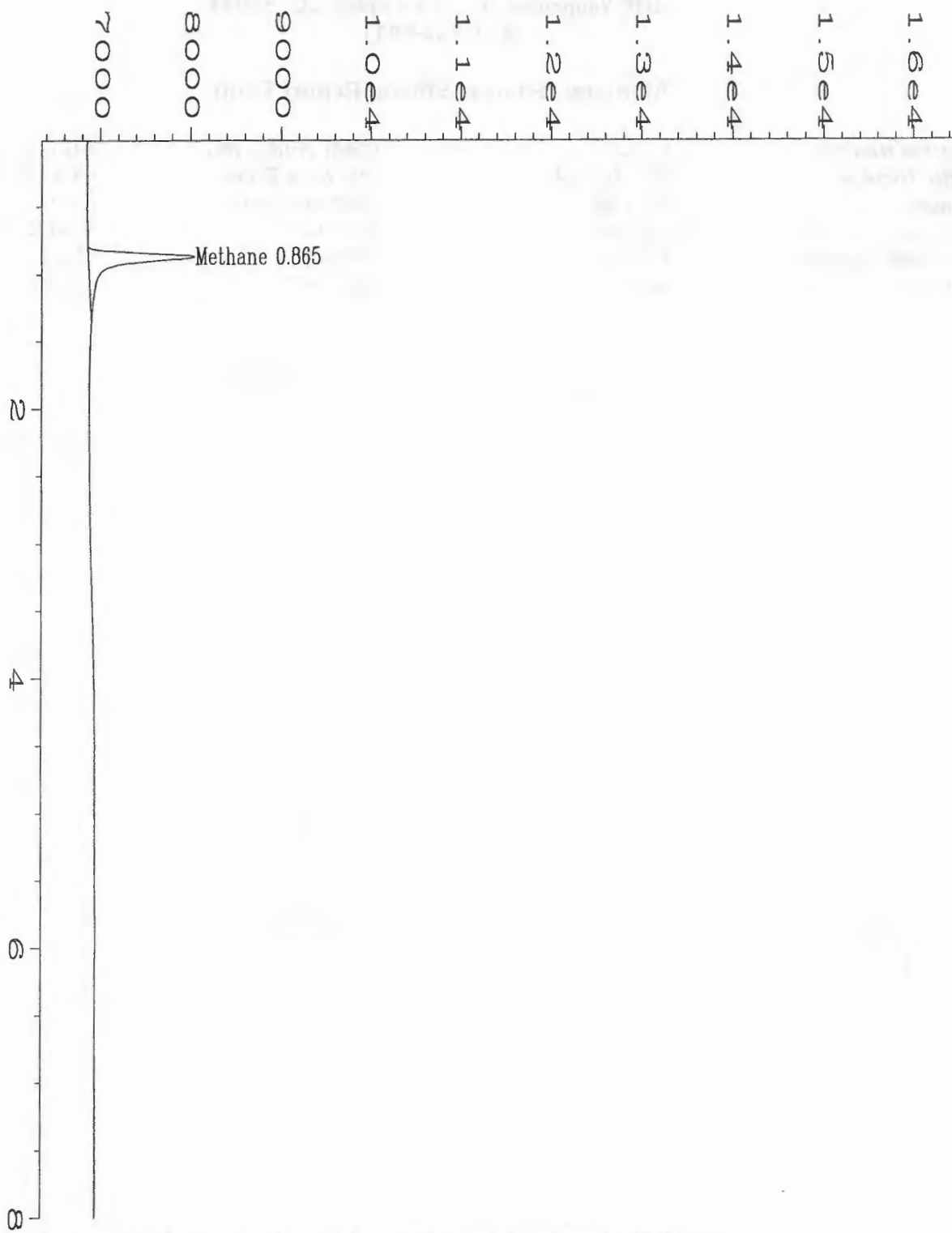
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\009R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 9
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1207-04A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 08:08 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:17 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL155		
	DF=1		

EVERGREEN ANALYTICAL, INC.  
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 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL148	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1207-05	Lab Work Order	: 98-1207
Date Sampled	: 3/25/98	Dilution Factor	: 1.00
Date Received	: 3/27/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/1/98	Matrix	: Water
Date Analyzed	: 4/1/98	Lab File No.	: GAS0401010

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 73.8 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

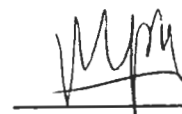
**Qualifiers**

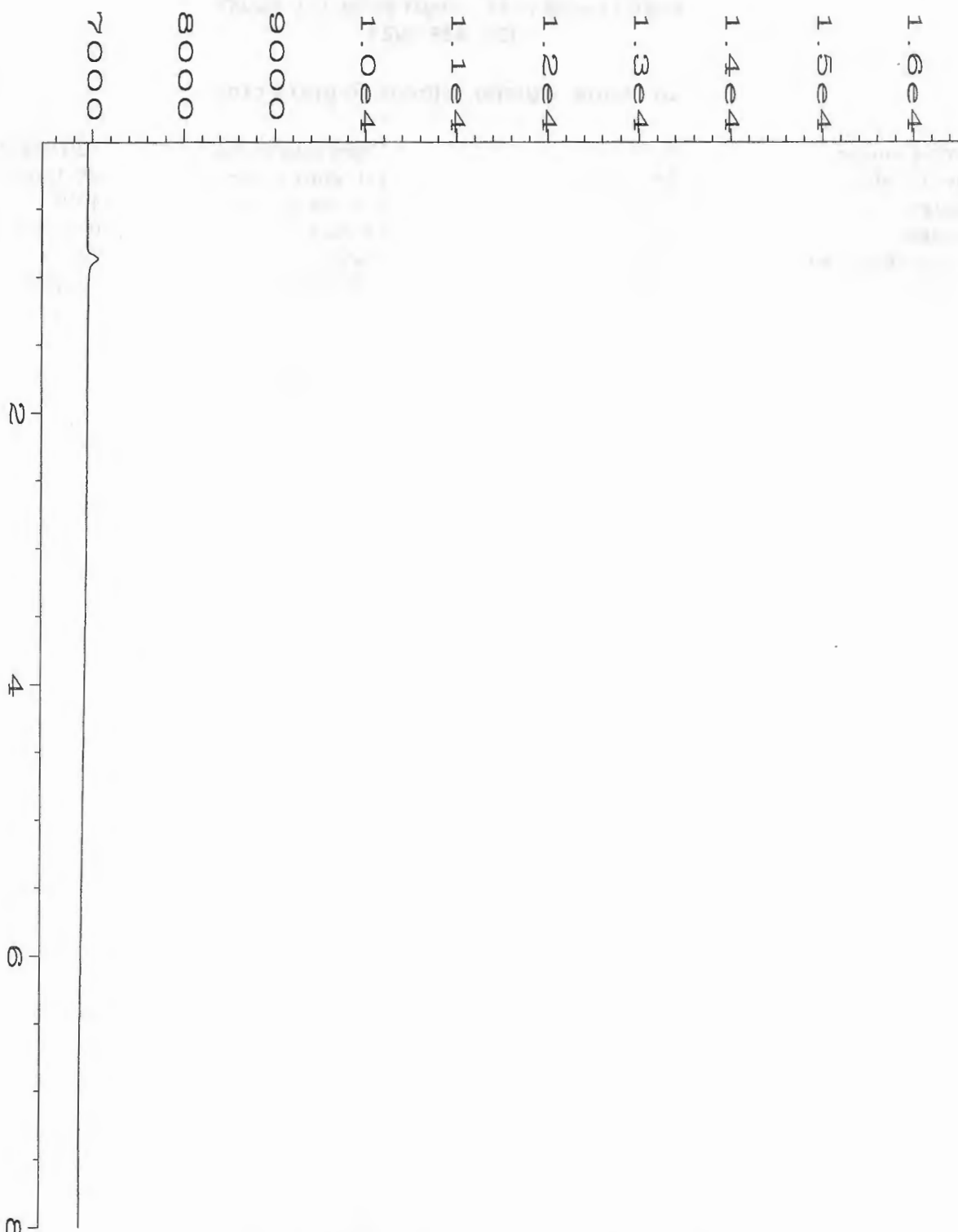
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\010R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 10
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1207-05A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 08:16 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:17 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL148		
	DF=1		

**EVERGREEN ANALYTICAL, INC.**  
**4036 Youngfield St. Wheat Ridge, CO 80033**  
**(303) 425-6021**

**Methane, Ethane, Ethene Report Form**

<b>Client Sample Number</b>	: AL148	<b>Client Project No.</b>	: 730769-01005
<b>Lab Sample Number</b>	: 98-1207-05Dup	<b>Lab Work Order</b>	: 98-1207
<b>Date Sampled</b>	: 3/25/98	<b>Dilution Factor</b>	: 1.00
<b>Date Received</b>	: 3/27/98	<b>Method</b>	: RSKSOP-175M
<b>Date Extracted/Prepared</b>	: 4/1/98	<b>Matrix</b>	: Water
<b>Date Analyzed</b>	: 4/1/98	<b>Lab File No.</b>	: GAS0401011

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

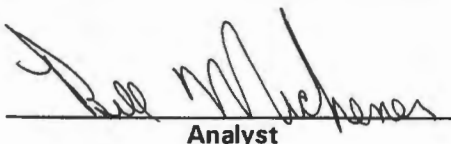
Temperature	: 73.8 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

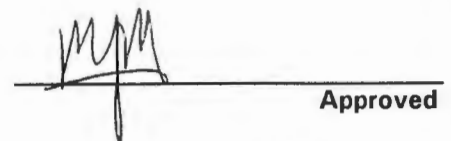
**Qualifiers**

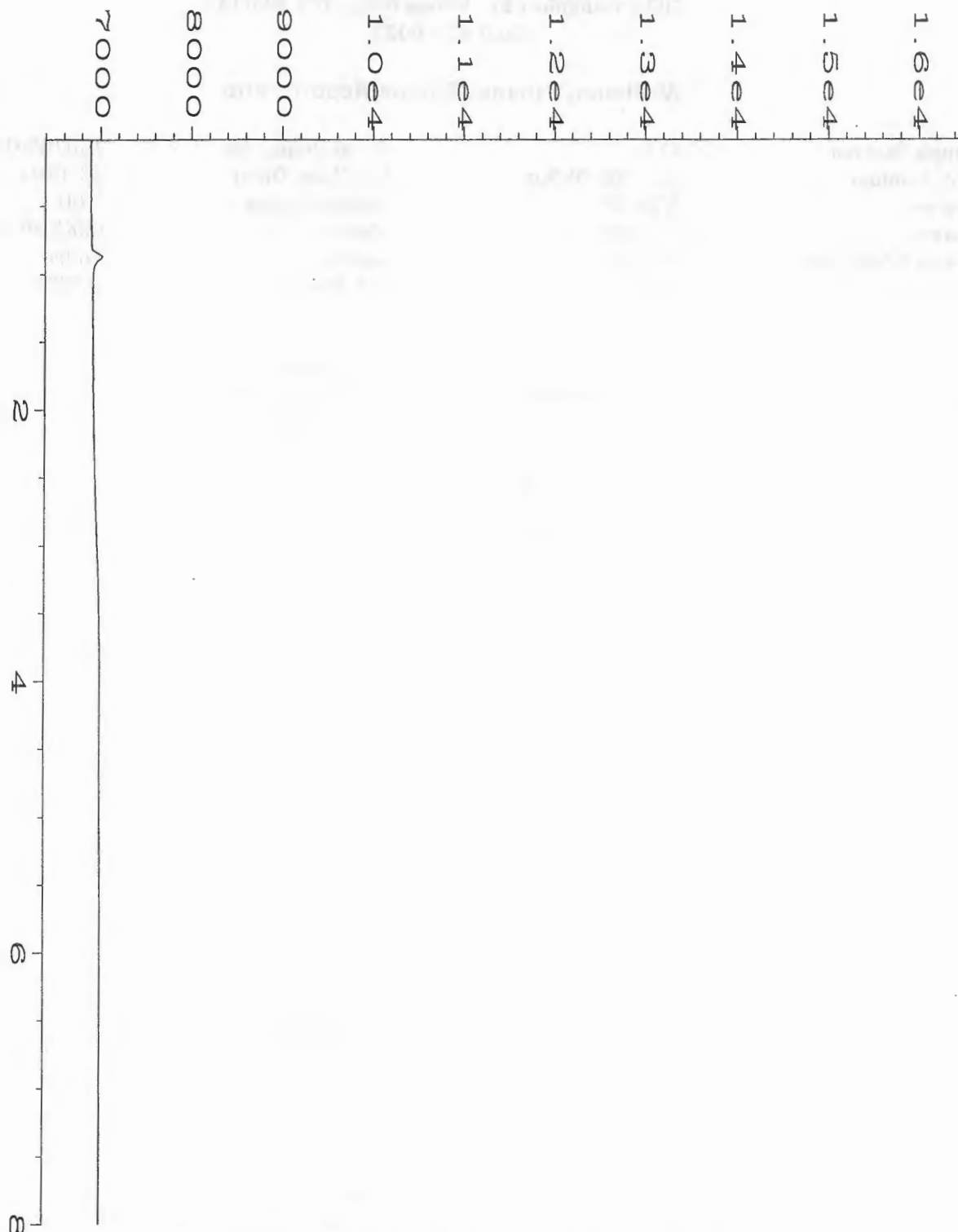
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 Analyst

  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\011R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 11
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1207-05ADup	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 08:26 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:17 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: DUP METHETH		
	AL148		
	DF=1		

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4036 Youngfield St. Wheat Ridge, CO 80033  
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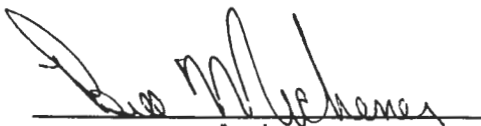
**Methane, Ethane, Ethene Report Form**  
**Method Blank Report**

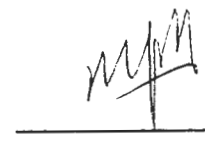
<b>Method Blank Number</b>	: GB040198	<b>Client Project No.</b>	: 730769-01005
<b>Date Extracted/Prepared</b>	: 4/1/98	<b>Lab Work Order</b>	: 98-1207
<b>Date Analyzed</b>	: 4/1/98	<b>Dilution Factor</b>	: 1.00
		<b>Method</b>	: RSKSOP-175M
		<b>Matrix</b>	: Water
		<b>Lab File No.</b>	: GAS0401005

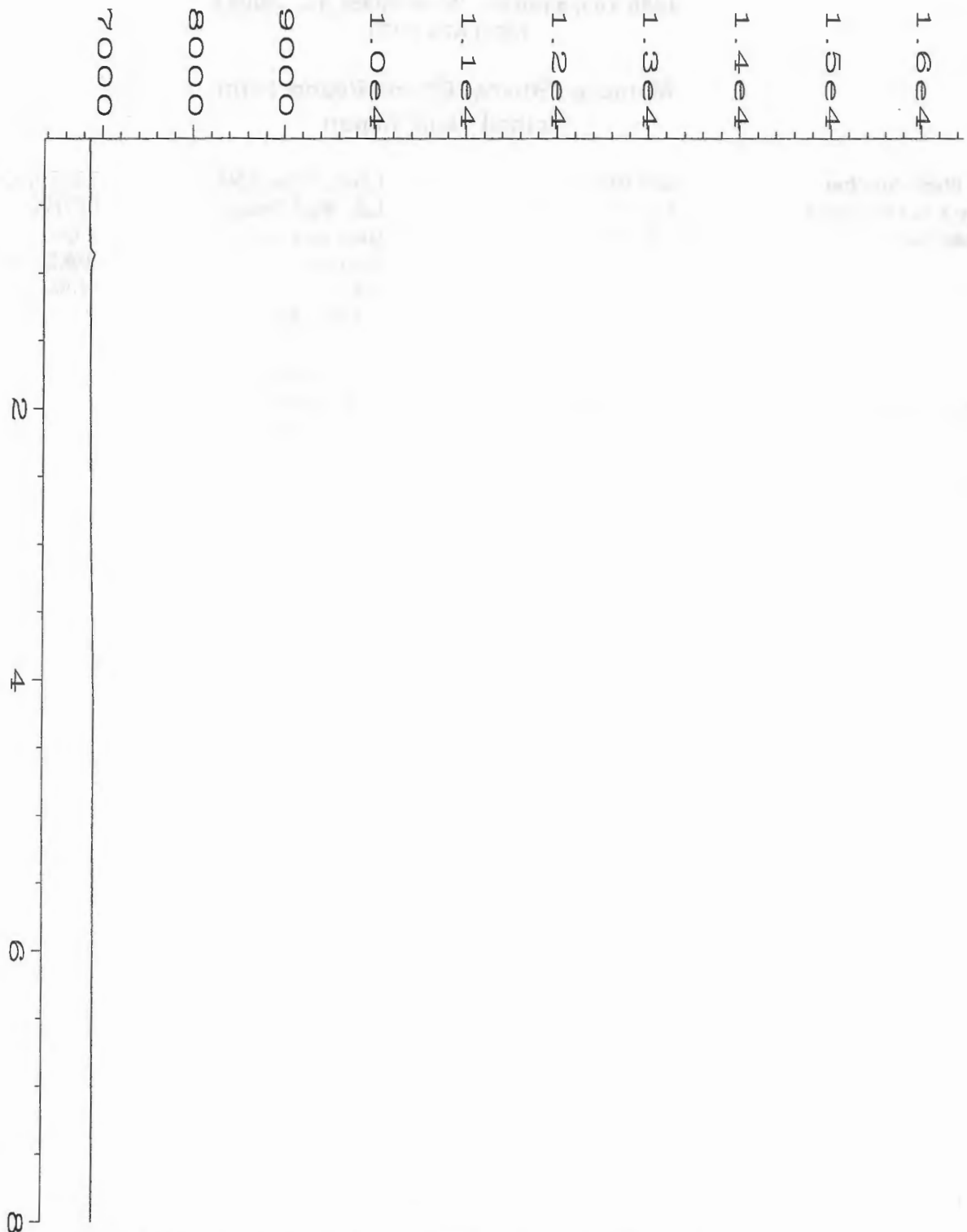
<b>Compound Name</b>	<b>Cas Number</b>	<b>Sample Concentration mg/L</b>	<b>RL mg/L</b>
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

**Qualifiers**

E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name : C:\HPCHEM\ALGA\DATA\GAS0401\005R0101.D  
 Operator : Bill Michener  
 Instrument : ALGA  
 Sample Name : GB040198  
 Run Time Bar Code:  
 Acquired on : 01 Apr 98 07:32 AM  
 Report Created on: 01 Apr 98 10:24 AM  
 Last Recalib on : 03 SEP 97 11:40 AM  
 Multiplier : 1  
 Sample Info : MBLK METHETH  
 Displaced 4ml of distilled water in 43ml vial with Helium,  
 shook for 5 min. and injected 500ul.

Page Number : 1  
 Vial Number : 5  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: GAS.MTH  
 Analysis Method : GAS0401.MTH  
 Sample Amount : 0  
 ISTD Amount :



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4036 Youngfield, Wheat Ridge, CO 80033  
(303) 425-6021

**RSKSOP-175M Gas Method**  
**Methane, Ethane, Ethene LCS Report Form**

LCS No. : LCS040198                      EPA Method No. : RSKSOP-175M  
Date Prepared : 4/1/98                      Matrix : Water  
Date Analyzed : 4/1/98                      Method Blank : GBO40198  
E.A. LCS Source No. : 1719                      Lab File No. : GAS0401004


Compound	Spike Added (ug)	Method Blank Concentration (ug)	LCS Concentration (ug)	LCS %REC	QC Limits %REC
Methane Gas	500	0	390	78	64-90
Ethene Gas	500	0	205	41	37-58
Ethane Gas	500	0	313	63	53-83

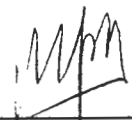
Spike Recovery: 0 out of (3) outside limits.

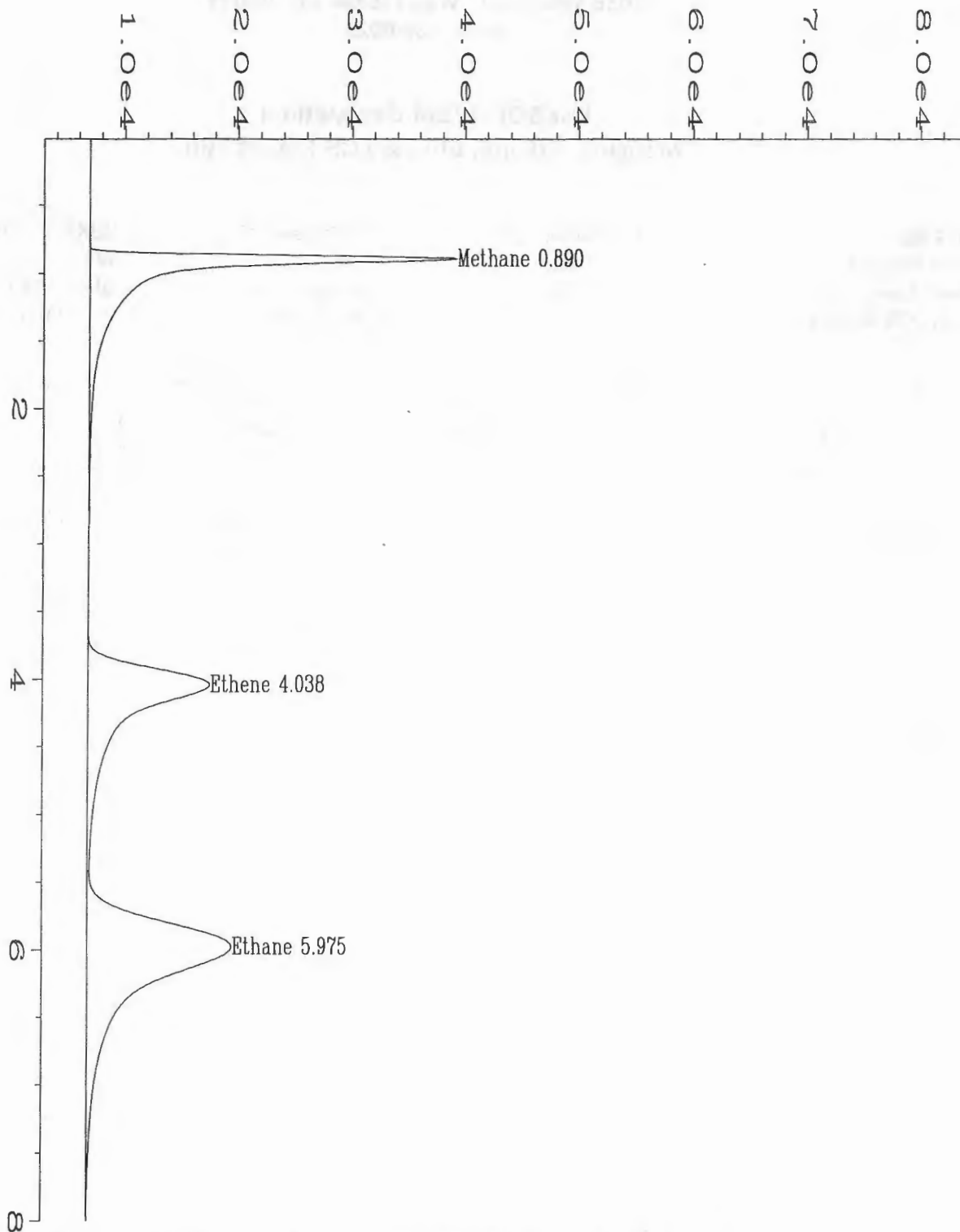
Note: The LCS was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug.

**Notes**

\* = Values outside of QC limits.  
NA = Not analyzed/not available.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\004R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 4
Instrument	: ALGA	Injection Number	: 1
Sample Name	: LCS040198	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 07:20 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:24 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: LCS METHETH		

Displaced 4ml of distilled water in 43ml vial with 1% methane, ethane, and ethene gas(#1719), shook for 5 min. and

**WORK ORDER Summary**

28-Mar 09:24 am

**Report To:** Kerry Smith  
 Parsons Engineering Science  
 30 Dan Road  
 Canton, MA 02021-2809

**Client Project ID:** 730769-01005

**Phone:** (781) 401-3200  
**FAX:** (781) 401-2575

**Comments:**

**QC Level:** MS/MSD required on Client samples

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
98-1233-01A	AL151	Methane. Ethane. Ethene		Water	2	26-Mar-98	28-Mar-98	13-Apr-98	09-Apr-98
98-1233-02A	AL141	Methane. Ethane. Ethene						13-Apr-98	09-Apr-98
98-1233-03A	AL140	Methane. Ethane. Ethene				27-Mar-98		13-Apr-98	10-Apr-98
98-1233-04A	AL138	Methane. Ethane. Ethene						13-Apr-98	10-Apr-98

WO# 98-1233 BOF# N/A  
 C/S(O) N/A / N/A C/S(I) C / Co  
 Temp (C) 3 Seals intact Y / N / NA  
 Pres Y / N / NA Hd Sp Y / N / NA  
 Loc 2 Container 40 mL Bysto

# CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

730769-01005  
Seneca 1st Qtr 98  
 CONTACT Mike Duchesneau

LABORATORY Evergreen Labs  
 ADDRESS Wheat Ridge, CO  
 CONTACT Shea Gramer

30 Dan Road  
 Canton, MA 02021 Phone: 781-401-3200  
 Fax: 781-401-2575

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES							NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)			
		DATE	TIME			VOA	SVOC	METALS	CN	H/E/E							
AL151		3-26-98	1350		water						X					3	-01A
AL141		3-26-98	1650		water						X					3	-02
AL140		3-27-98	1320		water						X					3	-03
AL138		3-27-98	1205		water						X					3	-04
<del>REMAINDER OF TABLE IS VOID</del>																	

Sampled and Relinquished by  
 Sign Michael Wilkinson  
 Print Michael Wilkinson  
 Firm Parsons ES  
 Date 3-27-98 Time 1630

Received by  
 Sign J Dechant  
 Print J Dechant  
 Firm Evergreen A.C.  
 Date 3/27/98 Time 830

Relinquished by  
 Sign  
 Print  
 Firm  
 Date Time

Received by  
 Sign  
 Print  
 Firm  
 Date Time

VOA Vial X

Glass Bottle

Plastic Bottle

Preservative A

Container Volume C  
40 mL

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic  
 A - Ice D - Acidified with HNO<sub>3</sub> G - Other  
 B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

REMARKS: (Sample storage, nonstandard sample bottles)  
Contract # 98-1785

Evidence Samples tampered with?  No  Yes  
 If Yes, explain in remarks.

Cooler #: 18

EVERGREEN ANALYTICAL, INC.  
 4036 Youngfield St. Wheat Ridge, CO 80033  
 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL151	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1233-01	Lab Work Order	: 98-1233
Date Sampled	: 3/26/98	Dilution Factor	: 1.00
Date Received	: 3/28/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/1/98	Matrix	: Water
Date Analyzed	: 4/1/98	Lab File No.	: GAS0401012

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 73.5 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		


**Qualifiers**

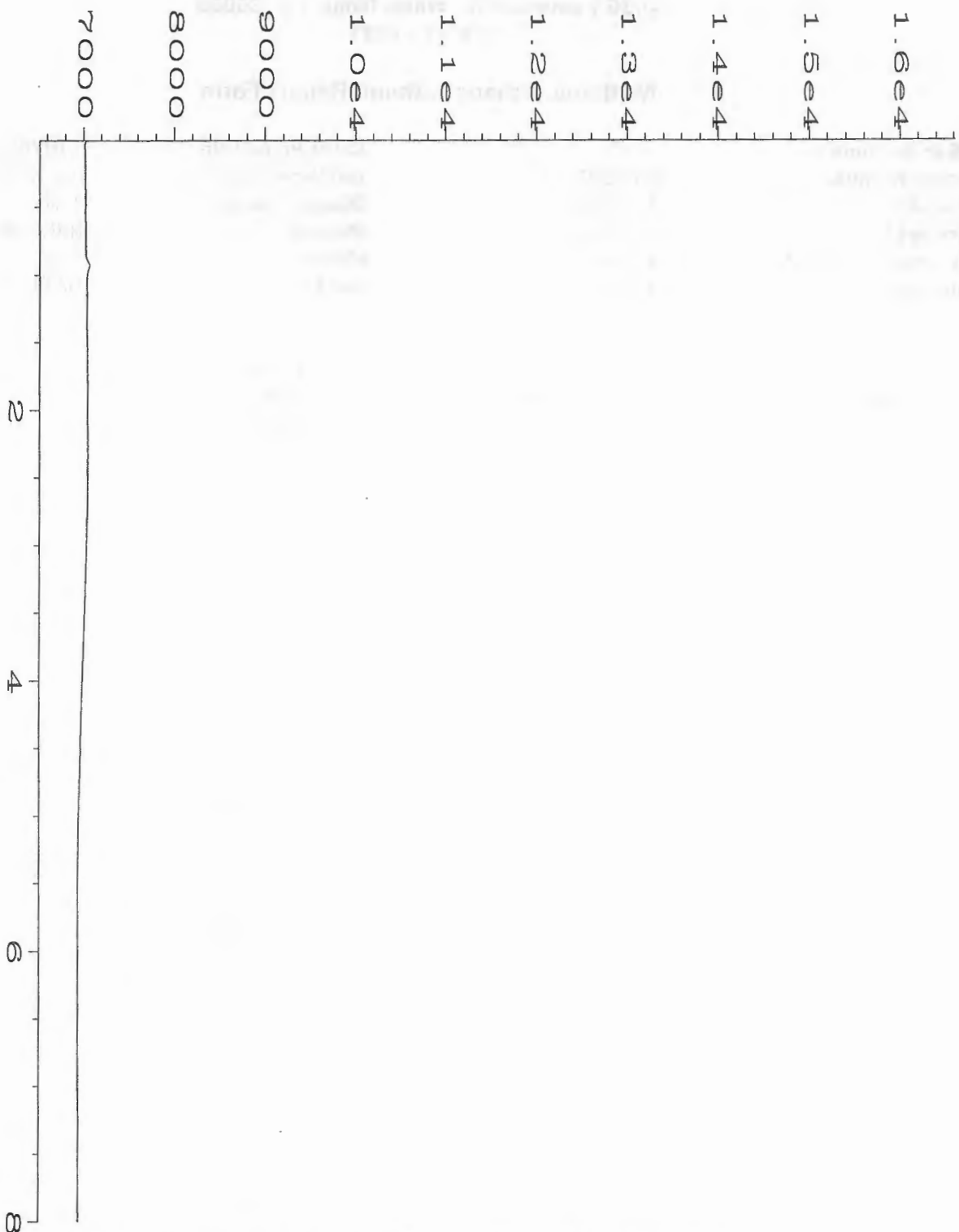
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 Analyst

  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\012R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 12
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1233-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 08:35 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:18 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL151		
	DF=1		

EVERGREEN ANALYTICAL, INC.  
 4036 Youngfield St. Wheat Ridge, CO 80033  
 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL141	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1233-02	Lab Work Order	: 98-1233
Date Sampled	: 3/26/98	Dilution Factor	: 1.00
Date Received	: 3/28/98	Method	: RKSOP-175M
Date Extracted/Prepared	: 4/1/98	Matrix	: Water
Date Analyzed	: 4/1/98	Lab File No.	: GAS0401013

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

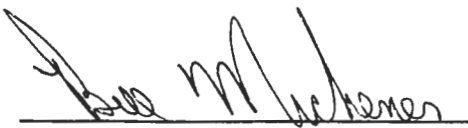
Temperature	: 73.7 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration	Meth	0
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

**Qualifiers**

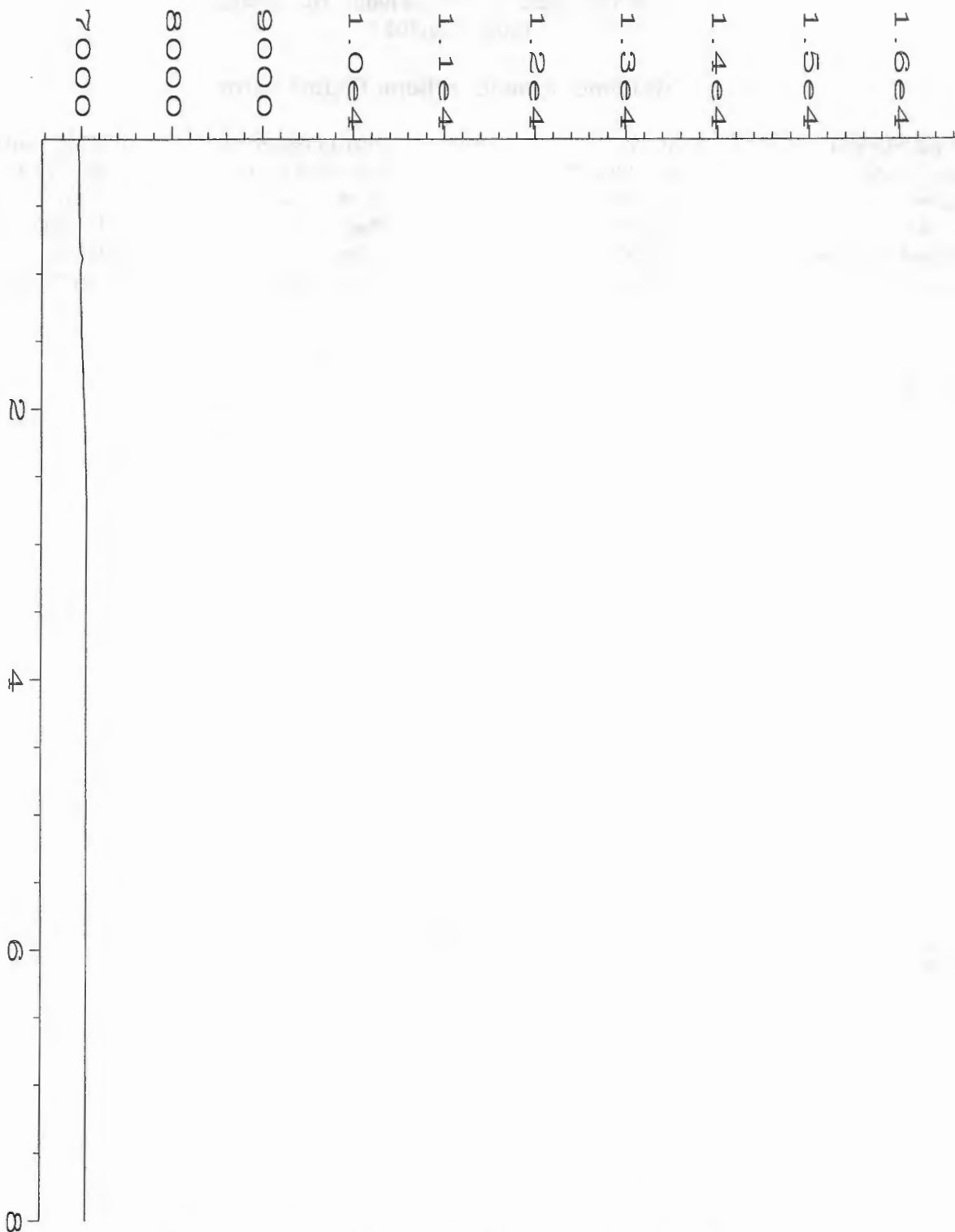
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 Analyst

  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\013R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 13
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1233-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 08:45 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:18 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL141		
	DF=1		



EVERGREEN ANALYTICAL, INC.  
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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL140	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1233-03	Lab Work Order	: 98-1233
Date Sampled	: 3/27/98	Dilution Factor	: 1.00
Date Received	: 3/28/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/1/98	Matrix	: Water
Date Analyzed	: 4/1/98	Lab File No.	: GAS0401015

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

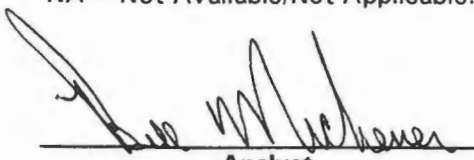
Temperature	: 74.0 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

**Qualifiers**

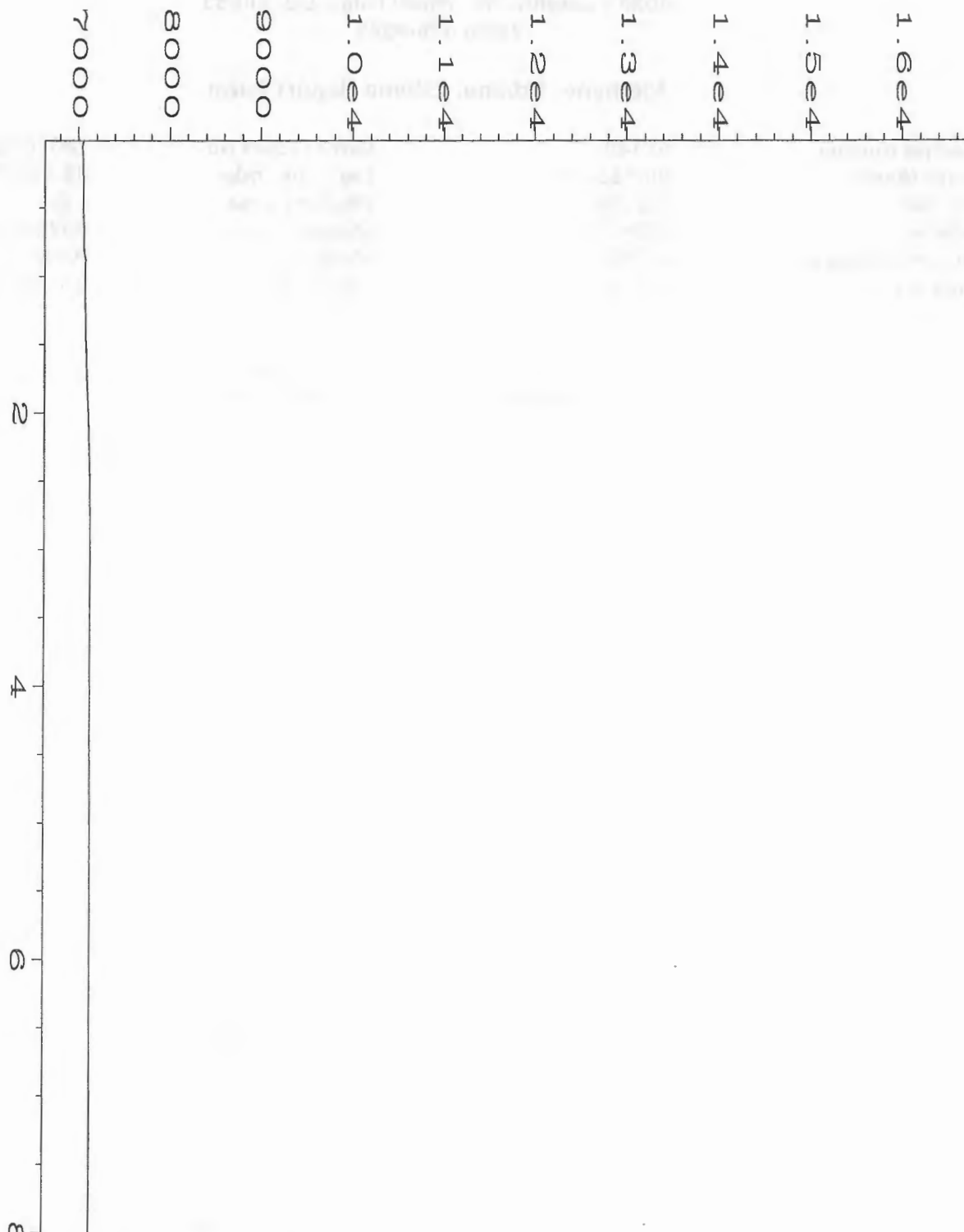
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 Analyst

  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\015R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 15
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1233-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 09:03 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:18 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL140		
	DF=1		

**EVERGREEN ANALYTICAL, INC.**  
**4036 Youngfield St. Wheat Ridge, CO 80033**  
**(303) 425-6021**

**Methane, Ethane, Ethene Report Form**

<b>Client Sample Number</b>	: AL138	<b>Client Project No.</b>	: 730769-01005
<b>Lab Sample Number</b>	: 98-1233-04	<b>Lab Work Order</b>	: 98-1233
<b>Date Sampled</b>	: 3/27/98	<b>Dilution Factor</b>	: 1.00
<b>Date Received</b>	: 3/28/98	<b>Method</b>	: RSKSOP-175M
<b>Date Extracted/Prepared</b>	: 4/1/98	<b>Matrix</b>	: Water
<b>Date Analyzed</b>	: 4/1/98	<b>Lab File No.</b>	: GAS0401016

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.086	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 74.3 F	Saturation	Meth	0.020873762
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.065485194
Head space created	: 4 ml	in Head Space		
Methane Area	: 485.409 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

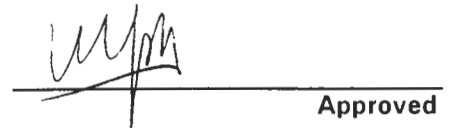
**Qualifiers**

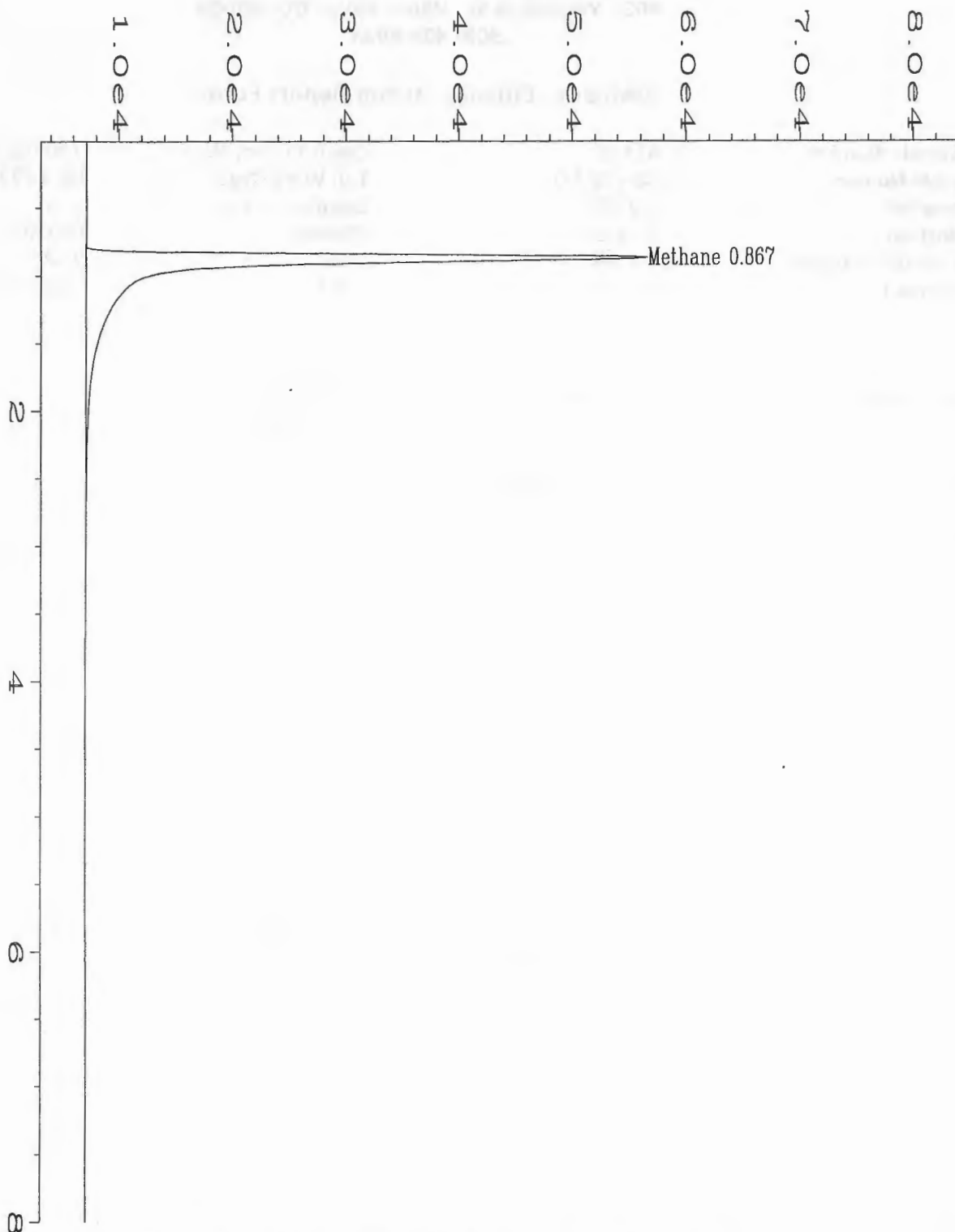
E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0401\016R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 16
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1233-04A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 01 Apr 98 09:13 AM	Analysis Method	: GAS0401.MTH
Report Created on:	01 Apr 98 10:18 AM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL138		
	DF=1		

EVERGREEN ANALYTICAL, INC.  
4036 Youngfield St. Wheat Ridge, CO 80033  
(303) 425-6021


Methane, Ethane, Ethene Report Form  
Method Blank Report

Method Blank Number : GB040198      Client Project No. : 730769-01005  
Date Extracted/Prepared : 4/1/98      Lab Work Order : 98-1233  
Date Analyzed : 4/1/98      Dilution Factor : 1.00  
Method : RSKSOP-175M  
Matrix : Water  
Lab File No. : GAS0401005

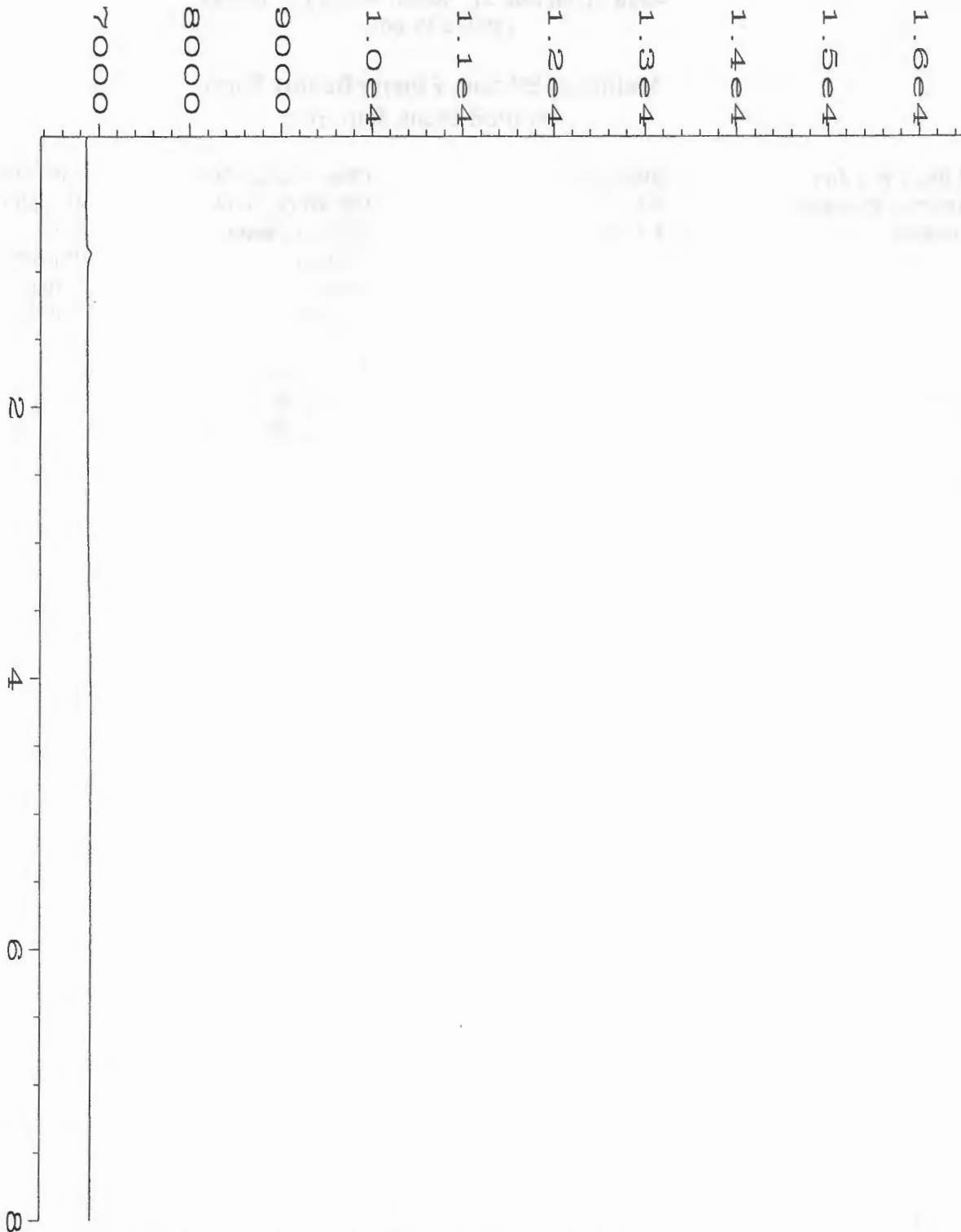
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

**Qualifiers**

E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name : C:\HPCHEM\ALGA\DATA\GAS0401\005R0101.D  
 Operator : Bill Michener  
 Instrument : ALGA  
 Sample Name : GB040198  
 Run Time Bar Code:  
 Acquired on : 01 Apr 98 07:32 AM  
 Report Created on: 01 Apr 98 10:25 AM  
 Last Recalib on : 03 SEP 97 11:40 AM  
 Multiplier : 1  
 Sample Info : MBLK METHETH  
 Displaced 4ml of distilled water in 43ml vial with Helium,  
 shook for 5 min. and injected 500ul.

Page Number : 1  
 Vial Number : 5  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: GAS.MTH  
 Analysis Method : GAS0401.MTH  
 Sample Amount : 0  
 ISTD Amount. :

Evergreen Analytical, Inc.  
 4036 Youngfield, Wheat Ridge, CO 80033  
 (303) 425-6021

**RSK-175M Gas Method**  
**Methane, Ethane, Ethene Gas Matrix Spike / Matrix Spike Duplicate Report**

Client Sample No.	: AL151	Client Project No.	: 730769-01005
Lab Sample No.	: 98-1233-01	Lab Work Order	: 98-1233
Date Sampled	: 3/26/98	EPA Method No.	: RSKSOP-175M
Date Received	: 3/28/98	Matrix	: Water
Date Prepared	: 4/1/98	Method Blank	: GBO40198
Date Analyzed	: 4/1/98	Lab File No's.	: GAS0401017,018
E.A. MS/MSD Spike Source No.	: 1719		

Compound	Spike Added (ug)	Sample ** Concentration (ug)	MS Concentration (ug)	MS %REC	QC Limits %REC
Methane Gas	500	0	300	60	47-88
Ethene Gas	500	0	187	37	29-53
Ethane Gas	500	0	277	55	41-77

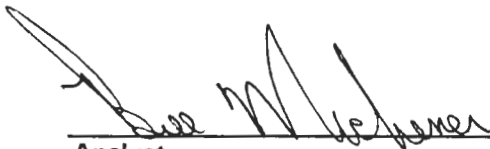
Compound	Spike Added (ug)	MSD Concentration (ug)	MSD %REC	RPD	QC Limits	
					RPD	%REC
Methane Gas	500	303	61	1.2	0-16.4	47-88
Ethene Gas	500	189	38	1.2	0-26.4	29-53
Ethane Gas	500	280	56	1.1	0-26.3	41-77

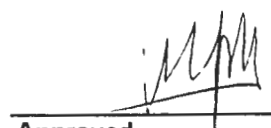
RPD: 0 out of (3) outside limits.  
 Spike Recovery: 0 out of (6) outside limits.

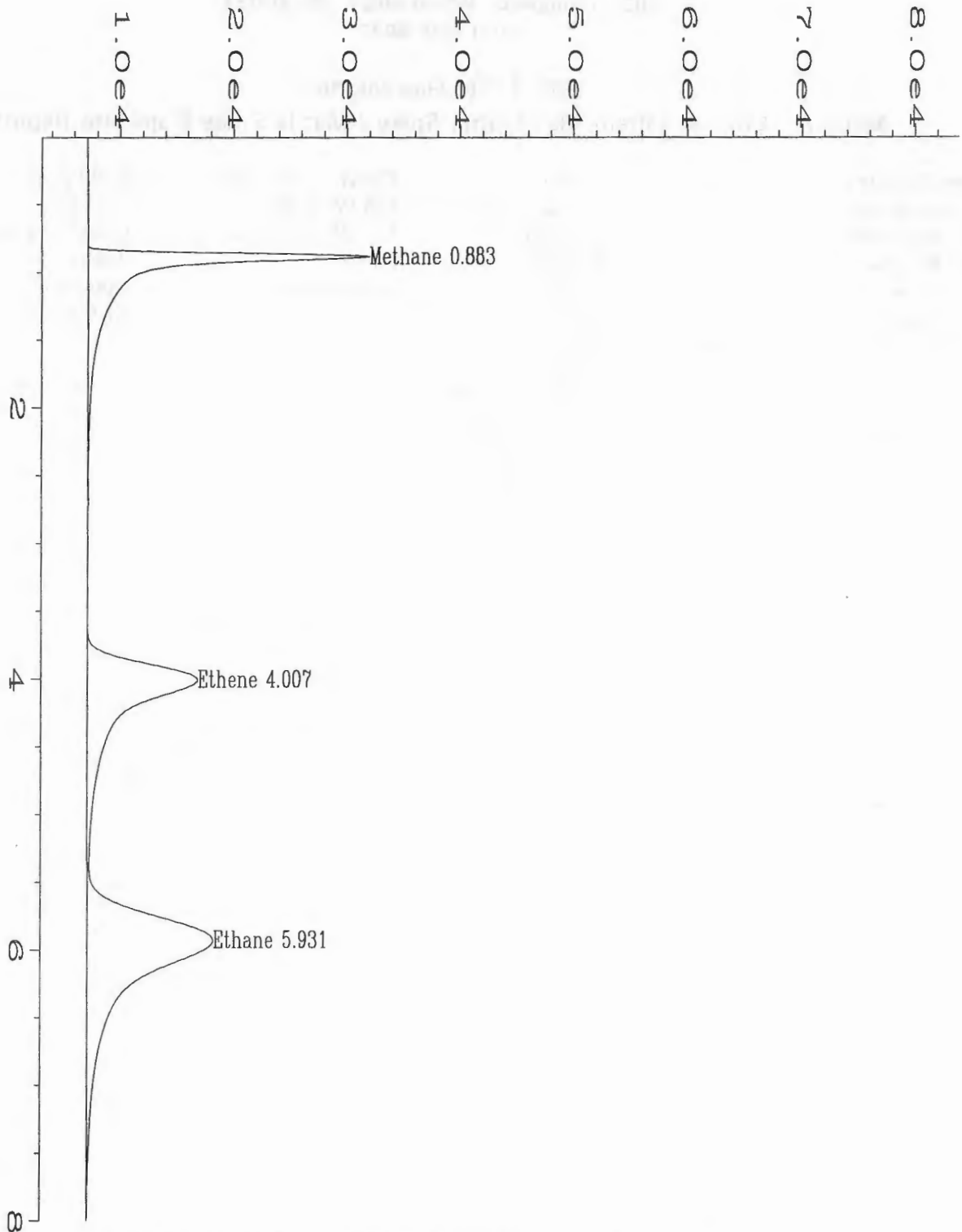
**Notes**

\* = Values outside of QC limits.  
 \*\* = Sample concentration reported at DF = 10.  
 NA = Not analyzed/not available

Note: The Spike was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug. Sample injected at DF = 10.

  
 \_\_\_\_\_  
 Analyst

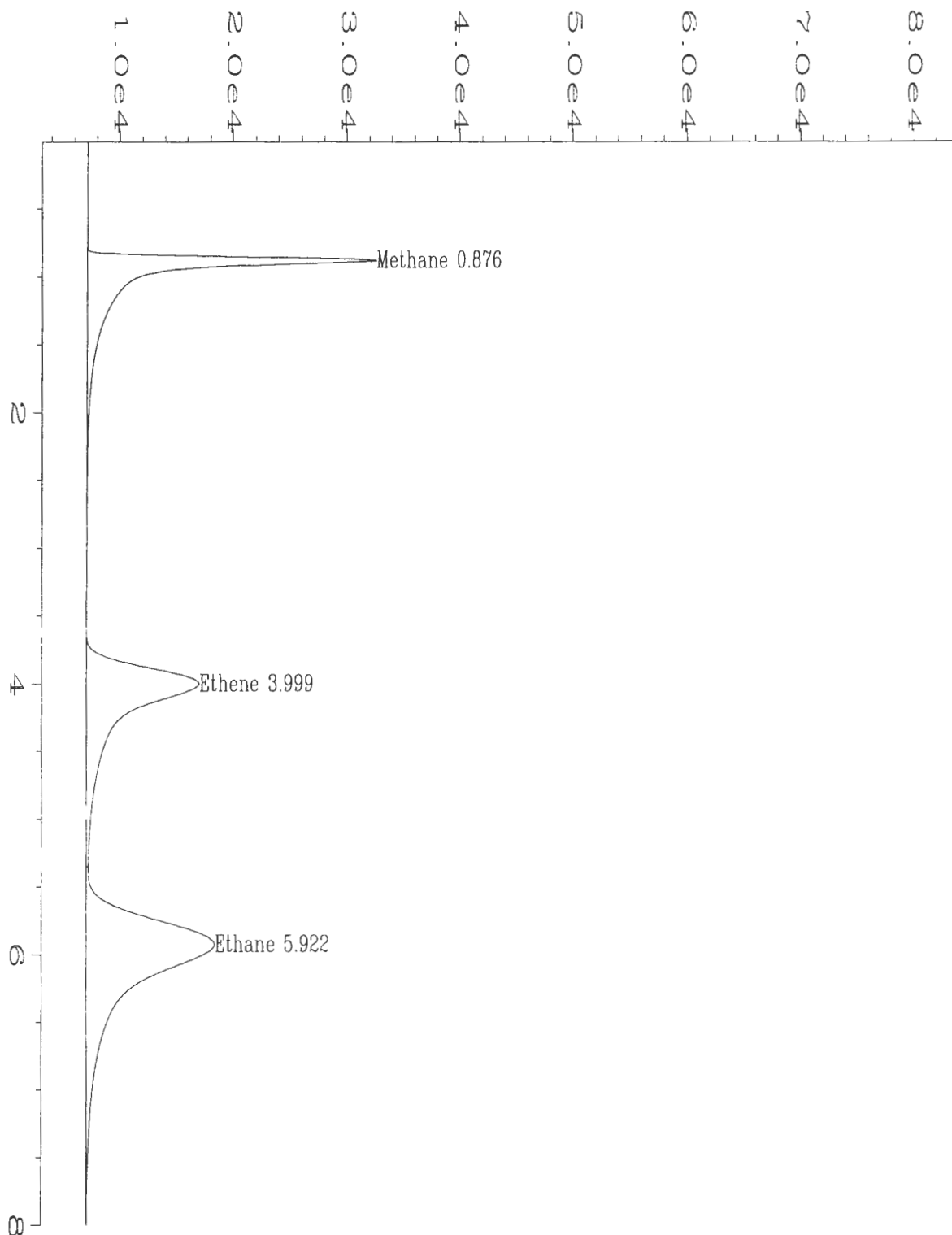
  
 \_\_\_\_\_  
 Approved



Data File Name : C:\HPCHEM\ALGA\DATA\GAS0401\017R0101.D  
 Operator : Bill Michener  
 Instrument : ALGA  
 Sample Name : 98-1233-01AMS  
 Run Time Bar Code:  
 Acquired on : 01 Apr 98 09:23 AM  
 Report Created on: 01 Apr 98 10:18 AM  
 Last Recalib on : 03 SEP 97 11:40 AM  
 Multiplier : 1  
 Sample Info : MS METHETH  
 AL151  
 Displaced 4ml with 1% methane, ethane and ethene gas(#1719).

Page Number : 1  
 Vial Number : 17  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: GAS.MTH  
 Analysis Method : GAS0401.MTH  
 Sample Amount : 0  
 ISTD Amount :





Data File Name : C:\HPCHEM\ALGA\DATA\GAS0401\018R0101.D  
 Operator : Bill Michener Page Number : 1  
 Instrument : ALGA Vial Number : 18  
 Sample Name : 98-1233-01AMSD Injection Number : 1  
 Run Time Bar Code: Sequence Line : 1  
 Acquired on : 01 Apr 98 09:32 AM Instrument Method: GAS.MTH  
 Report Created on: 01 Apr 98 10:18 AM Analysis Method : GAS0401.MTH  
 Last Recalib on : 03 SEP 97 11:40 AM Sample Amount : 0  
 Multiplier : 1 ISTD Amount :  
 Sample Info : MSD METHETH  
 AL151  
 Displaced 4ml with 1% methane, ethane and ethene gas(#1719).

Evergreen Analytical, Inc.  
4036 Youngfield, Wheat Ridge, CO 80033  
(303) 425-6021

**RSKSOP-175M Gas Method**  
**Methane, Ethane, Ethene LCS Report Form**

LCS No. : LCS040198      EPA Method No. : RSKSOP-175M  
Date Prepared : 4/1/98      Matrix : Water  
Date Analyzed : 4/1/98      Method Blank : GB040198  
E.A. LCS Source No. : 1719      Lab File No. : GAS0401004

Compound	Spike Added (ug)	Method Blank Concentration (ug)	LCS Concentration (ug)	LCS %REC	QC Limits %REC
Methane Gas	500	0	390	78	64-90
Ethene Gas	500	0	205	41	37-58
Ethane Gas	500	0	313	63	53-83

Spike Recovery: 0 out of (3) outside limits.

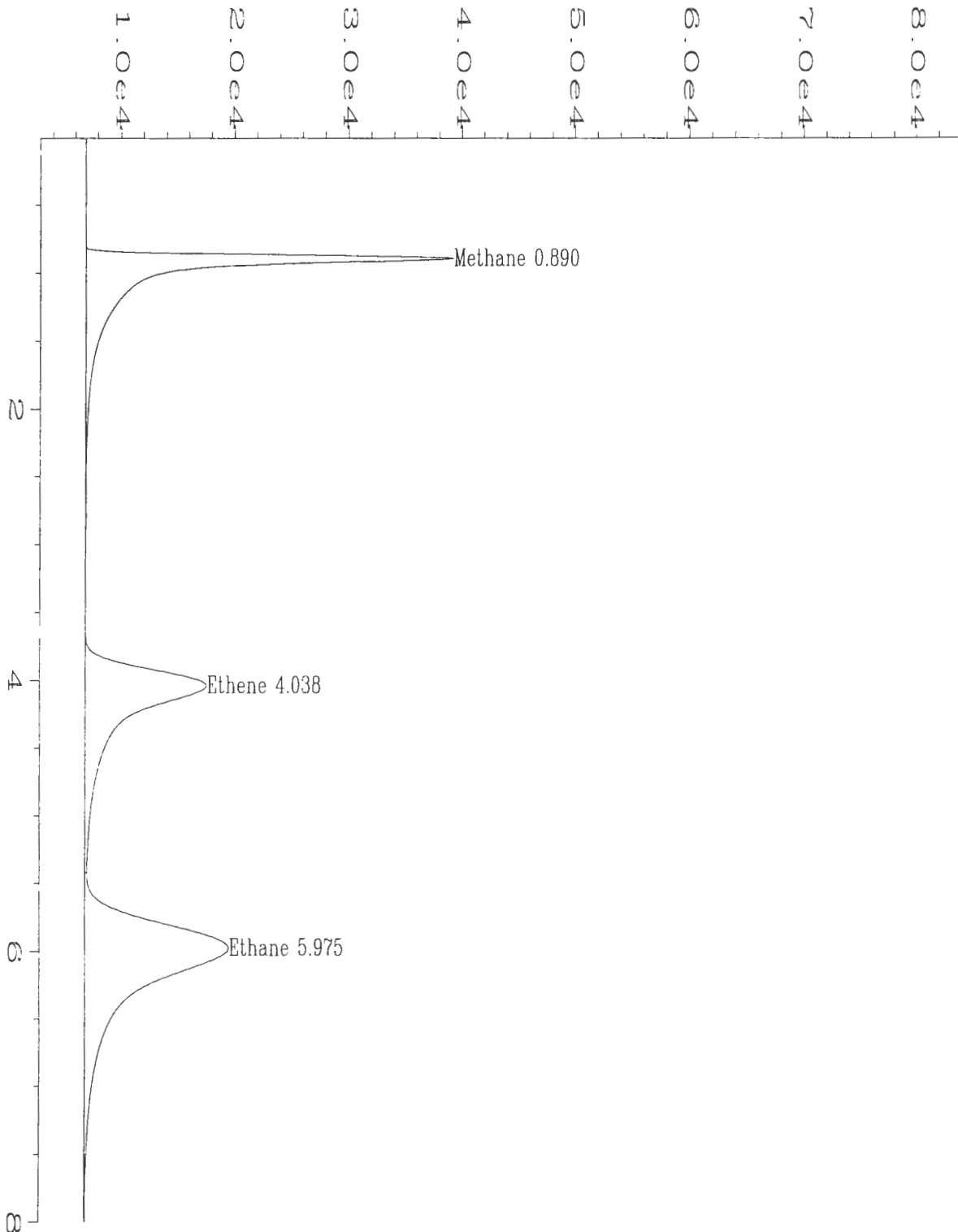
Note: The LCS was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug.

**Notes**

\* = Values outside of QC limits.  
NA = Not analyzed/not available.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name : C:\HPCHEM\ALGA\DATA\GAS0401\004R0101.D  
 Operator : Bill Michener Page Number : 1  
 Instrument : ALGA Vial Number : 4  
 Sample Name : LCS040198 Injection Number : 1  
 Run Time Bar Code: Sequence Line : 1  
 Acquired on : 01 Apr 98 07:20 AM Instrument Method: GAS.MTH  
 Report Created on: 01 Apr 98 10:25 AM Analysis Method : GAS0401.MTH  
 Last Recalib on : 03 SEP 97 11:40 AM Sample Amount : 0  
 Multiplier : 1 ISTD Amount :  
 Sample Info : LCS METHETH  
 Displaced 4ml of distilled water in 43ml vial with 1%  
 methane, ethane, and ethene gas(#1719), shook for 5 min. and

**WORK ORDER Summary**

31-Mar 11:50 am

Report To: Mike Duchesneau

Client Project ID: 730769-01005

Parsons Engineering Science  
 30 Dan Road  
 Canton, MA 02021-2809

Phone: (781) 401-3200  
 FAX: (781) 401-2575

Comments:

QC Level: MS/MSD required on Client samples

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
98-1257-01A	AL136	Methane, Ethane, Ethene		Water	2	28-Mar-98	31-Mar-98	14-Apr-98	11-Apr-98
98-1257-02A	AL156	Methane, Ethane, Ethene						14-Apr-98	11-Apr-98
98-1257-03A	AL146	Methane, Ethane, Ethene						14-Apr-98	11-Apr-98
98-1257-04A	AL133	Methane, Ethane, Ethene						14-Apr-98	11-Apr-98
98-1257-05A	AL134	Methane, Ethane, Ethene						14-Apr-98	11-Apr-98
98-1257-06A	AL161	Methane, Ethane, Ethene				29-Mar-98		14-Apr-98	12-Apr-98
98-1257-07A	AL149	Methane, Ethane, Ethene				28-Mar-98		14-Apr-98	11-Apr-98
98-1257-08A	AL135	Methane, Ethane, Ethene				29-Mar-98		14-Apr-98	12-Apr-98
98-1257-09A	AL147	Methane, Ethane, Ethene				28-Mar-98		14-Apr-98	11-Apr-98
98-1257-10A	AL145	Methane, Ethane, Ethene				29-Mar-98		14-Apr-98	12-Apr-98
98-1257-11A	AL139	Methane, Ethane, Ethene						14-Apr-98	12-Apr-98
98-1257-12A	AL160	Methane, Ethane, Ethene						14-Apr-98	12-Apr-98

# = Special list. See sample comments or test information.  
 HT = Holding Time expiration date.

*Handwritten signatures: CM, BM*

M/E/E

<b>PARSONS</b> <small>PARSONS ENGINEERING SCIENCE, INC.</small>		<b>CHAIN-OF-CUSTODY RECORD</b>						PAGE <b>1</b> OF <b>1</b>												
30 Dan Road Canton, MA 02021 Phone: 781-401-3200 Fax: 781-401-2575		JOB NO. <b>730769-01005</b> PROJECT <b>Seneca 1st Qtr. '98</b> CONTACT <b>Mike Duchesneau</b>			LABORATORY <b>Evergreen Labs</b> ADDRESS <b>Wheat Ridge, CO</b> CONTACT <b>Shea</b>					WO# <b>98-1257</b> BOF# <b>1721</b> C/S(O) <b>36/1056</b> C/S(D) <b>36/100</b> Temp (C) <b>8</b> Seals intact <b>Y/N/NA</b> Pres <b>Y/N/NA</b> Hd Sp <b>Y/N/NA</b> Loc <b>2</b> Container <b>100/110</b> By <b>PM</b>										
SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										Σ	E/E			
		DATE	TIME			VOA	SVOC	METALS	CN											
AL136		3/28/98	1650		water												X	3		
AL156		3/28/98	1600		↓ KKS												X	3		
AL146		3/28/98	1445															X	3	
AL133		3/28/98	1130															X	3	
AL134		3/28/98	1010															X	3	
AL161		3/29/98	0945															X	3	Rinse Blank for AL139
AL149		3/28/98	1350															X	3	
AL135		3/29/98	1300															X	3	
AL147		3/28/98	1305															X	3	
AL145		3/29/98	1155															X	3	
AL139		3-29-98	1020															X	3	
AL160		3-29-98	1020															X	3	
Sampled and Relinquished by Sign <i>[Signature]</i> Print <b>Kenny Smith</b> Firm <b>Parsons ES</b> Date <b>3/30/98</b> Time <b>1100</b>		Received by <b>EAL</b> Sign <i>[Signature]</i> Print <b>James Hagan</b> Firm <b>EAL</b> Date <b>3/3/98</b> Time <b>1100</b>				VOA Vial <input checked="" type="checkbox"/>												REMARKS: (Sample storage, nonstandard sample bottles) <b>Contract # 98-1785</b> <u>Sampling Complete</u> Thankyou, Kenny		
Relinquished by Sign Print Firm Date Time		Received by Sign Print Firm Date Time			Glass Bottle Plastic Bottle Preservative Container Volume												PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic A - Ice D - Acidified with HNO <sub>3</sub> G - Other B - Filtered E - Acidified with H <sub>2</sub> SO <sub>4</sub>			
Evidence Samples tampered with? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, explain in remarks.																	Cooler #: <b>136</b>			

**EVERGREEN ANALYTICAL, INC.**  
**4036 Youngfield St. Wheat Ridge, CO 80033**  
**(303) 425-6021**

**Methane, Ethane, Ethene Report Form**

<b>Client Sample Number</b>	: AL136	<b>Client Project No.</b>	: 730769-01005
<b>Lab Sample Number</b>	: 98-1257-01	<b>Lab Work Order</b>	: 98-1257
<b>Date Sampled</b>	: 3/28/98	<b>Dilution Factor</b>	: 1.00
<b>Date Received</b>	: 3/31/98	<b>Method</b>	: RSKSOP-175M
<b>Date Extracted/Prepared</b>	: 4/2/98	<b>Matrix</b>	: Water
<b>Date Analyzed</b>	: 4/2/98	<b>Lab File No.</b>	: GAS0402006

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

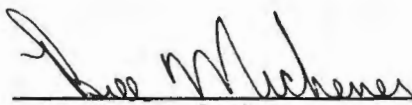
Temperature	: 72.9 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

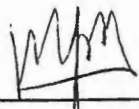
**Qualifiers**

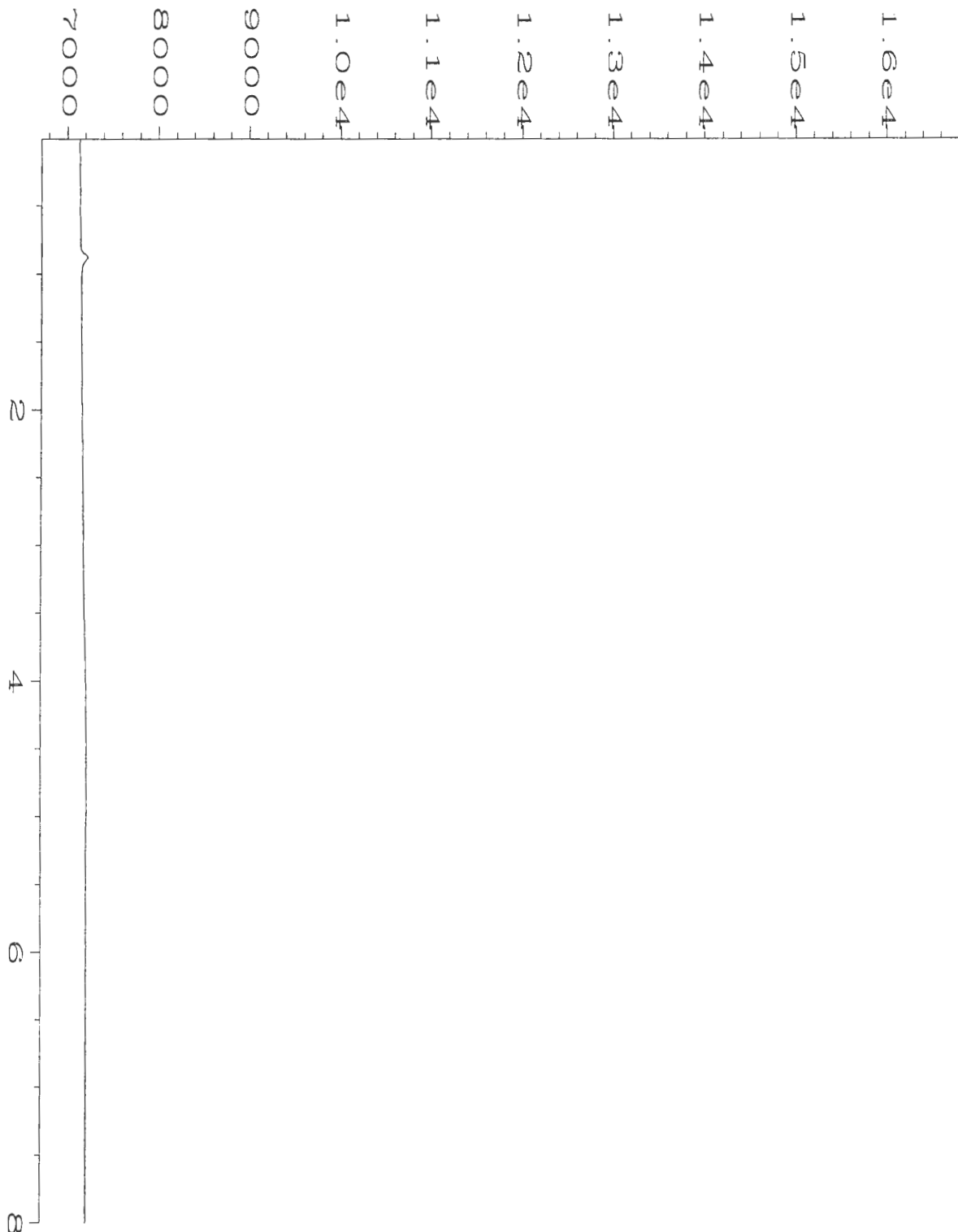
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 Analyst

  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\006R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 6
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 10:51 AM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:54 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL136		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL156	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1257-02	Lab Work Order	: 98-1257
Date Sampled	: 3/28/98	Dilution Factor	: 1.00
Date Received	: 3/31/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/2/98	Matrix	: Water
Date Analyzed	: 4/2/98	Lab File No.	: GAS0402007

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0032	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

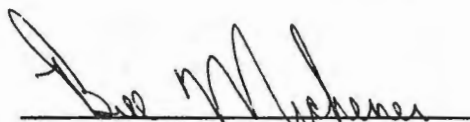
Temperature	: <u>72.9</u> F	Saturation	Meth	: <u>0.000766088</u>
Amount Injected	: <u>0.5</u> ml	Concentration		
Total Volume of Sample	: <u>43</u> ml	Concentration	Meth	: <u>0.002409694</u>
Head space created	: <u>4</u> ml	in Head Space		
Methane Area	: <u>17.815</u> ug	Saturation	Etha	: <u>0</u>
Ethane Area	: <u>0</u> ug	Concentration		
Ethene Area	: <u>0</u> ug	Concentration	Etha	: <u>0</u>
Atomic weight(Methane)	: <u>16</u> g	in Head Space		
Atomic weight(Ethane)	: <u>30</u> g	Saturation	Ethe	: <u>0</u>
Atomic weight(Ethene)	: <u>28</u> g	Concentration		
		Concentration	Ethe	: <u>0</u>
		in Head Space		

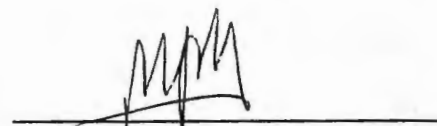
**Qualifiers**

E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

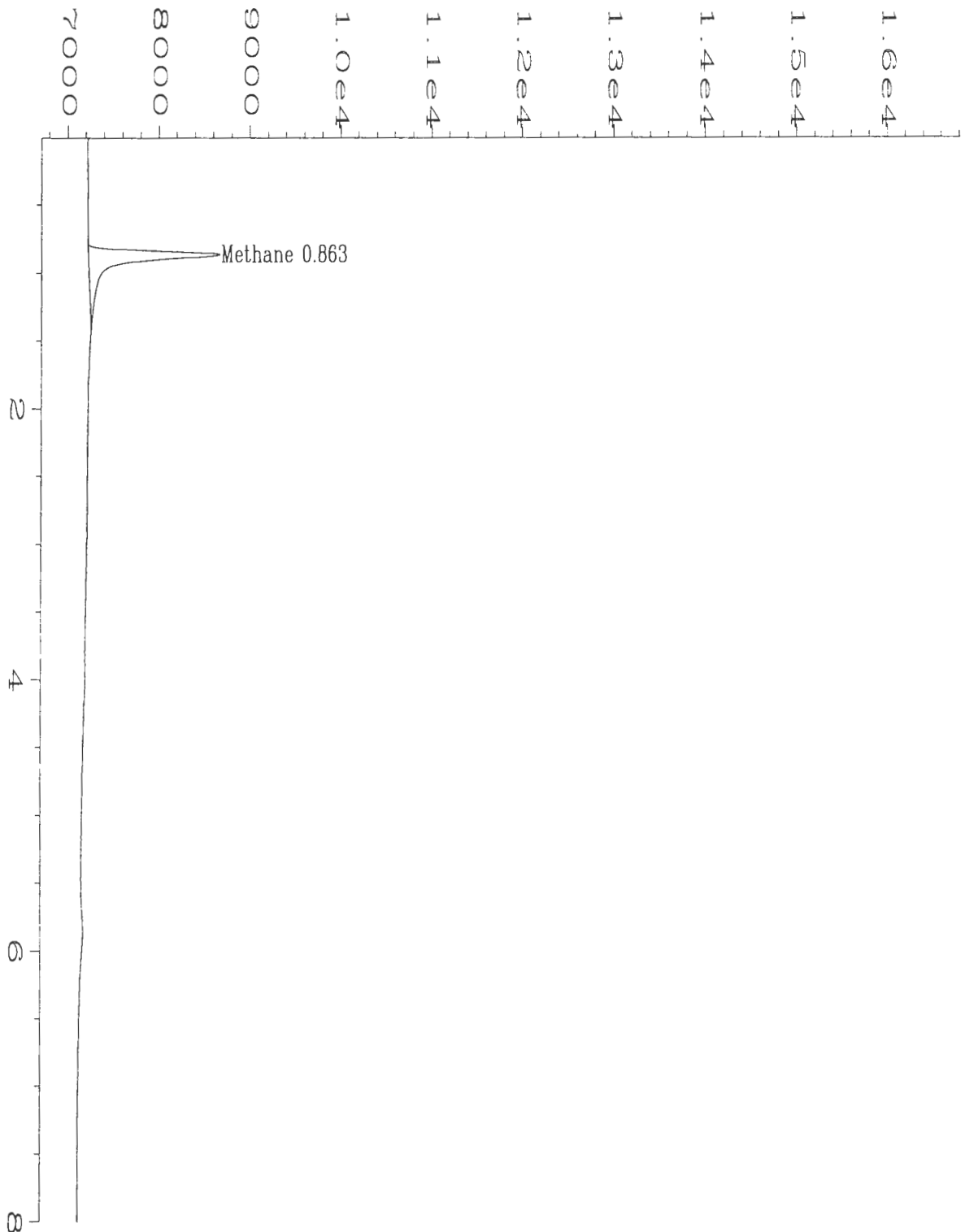
**Note**

Pressure calculated at sea level.

  
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Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\007R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 7
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 11:00 AM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:55 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL156		
	DF=1		

**EVERGREEN ANALYTICAL, INC.**  
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**Methane, Ethane, Ethene Report Form**

<b>Client Sample Number</b>	: AL146	<b>Client Project No.</b>	: 730769-01005
<b>Lab Sample Number</b>	: 98-1257-03	<b>Lab Work Order</b>	: 98-1257
<b>Date Sampled</b>	: 3/28/98	<b>Dilution Factor</b>	: 1.00
<b>Date Received</b>	: 3/31/98	<b>Method</b>	: RSKSOP-175M
<b>Date Extracted/Prepared</b>	: 4/2/98	<b>Matrix</b>	: Water
<b>Date Analyzed</b>	: 4/2/98	<b>Lab File No.</b>	: GAS0402008

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

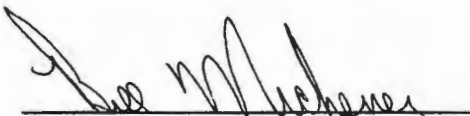
Temperature	: 73.1 F	Saturation	Meth	: 0
Amount Injected	: 0.5 ml	Concentration	Meth	: 0
Total Volume of Sample	: 43 ml	Concentration	Meth	: 0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	: 0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	: 0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	: 0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	: 0
		in Head Space		

**Qualifiers**

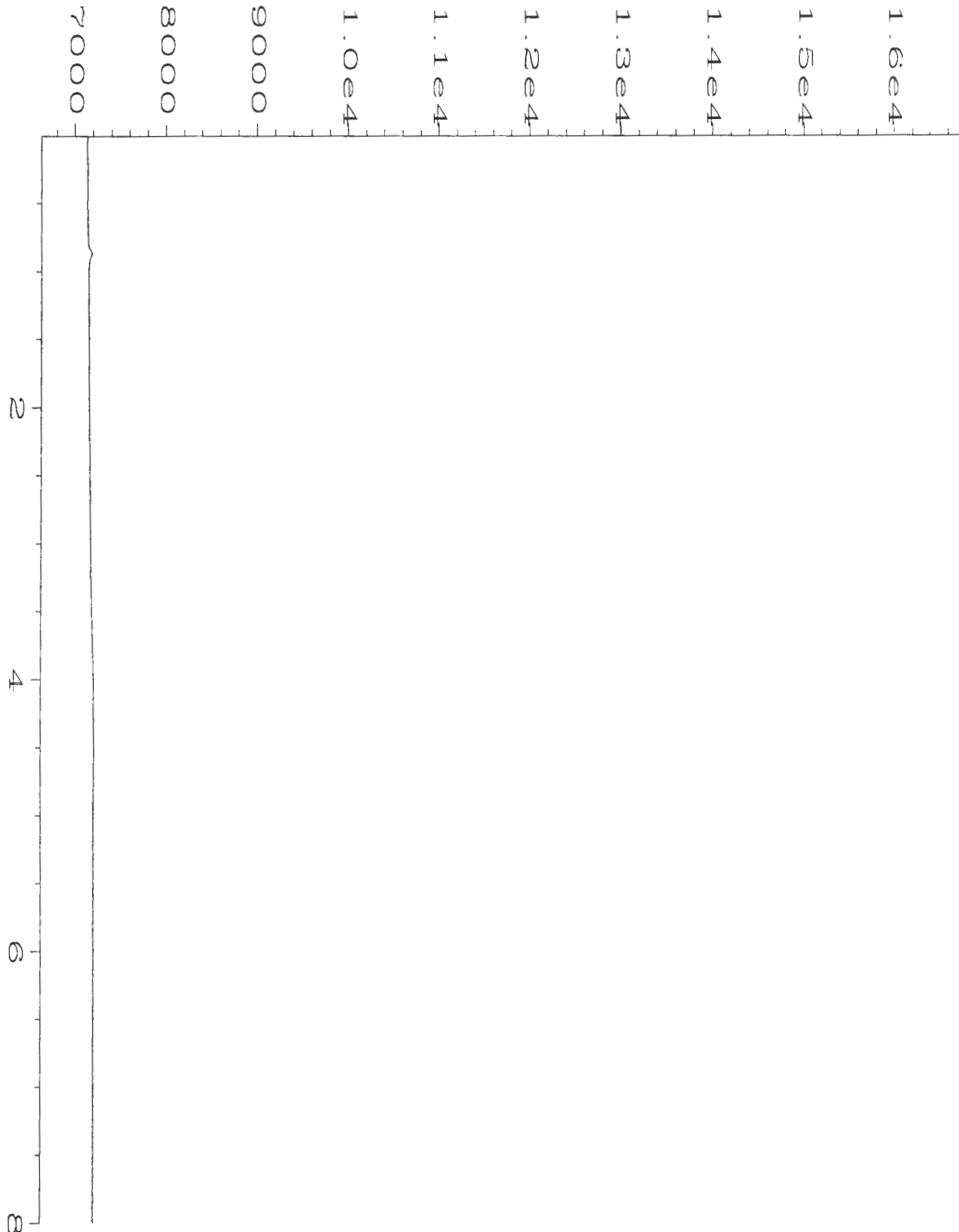
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\008R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 8
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 11:08 AM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:55 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL146		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

<b>Client Sample Number</b>	: AL133	<b>Client Project No.</b>	: 730769-01005
<b>Lab Sample Number</b>	: 98-1257-04	<b>Lab Work Order</b>	: 98-1257
<b>Date Sampled</b>	: 3/28/98	<b>Dilution Factor</b>	: 1.00
<b>Date Received</b>	: 3/31/98	<b>Method</b>	: RSKSOP-175M
<b>Date Extracted/Prepared</b>	: 4/2/98	<b>Matrix</b>	: Water
<b>Date Analyzed</b>	: 4/2/98	<b>Lab File No.</b>	: GAS0402009

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0082	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 73.2 F	Saturation	Meth	0.001968995
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.006189891
Head space created	: 4 ml	in Head Space		
Methane Area	: 45.788 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

**Qualifiers**

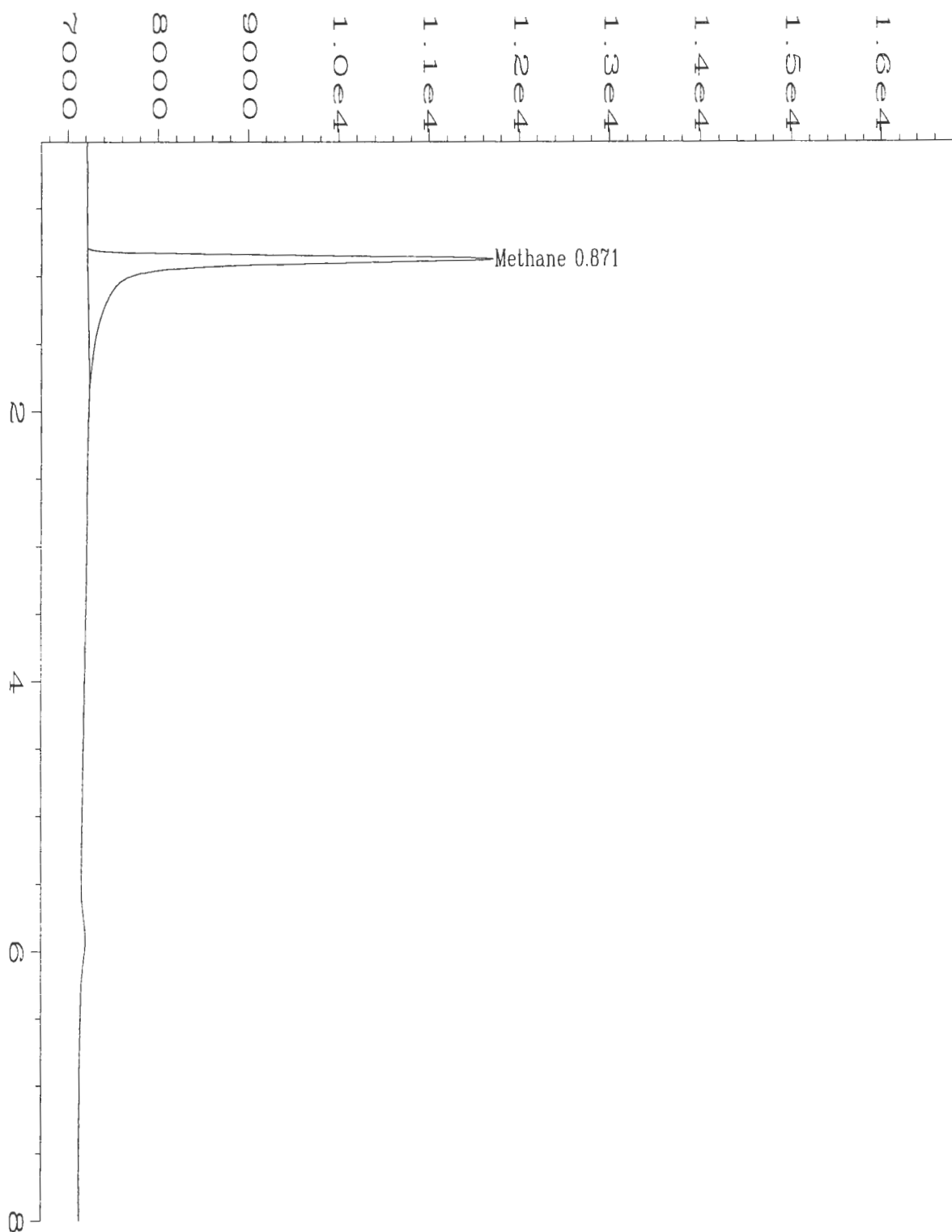
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\009R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 9
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-04A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 11:17 AM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:55 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL133		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL134	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1257-05	Lab Work Order	: 98-1257
Date Sampled	: 3/28/98	Dilution Factor	: 1.00
Date Received	: 3/31/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/2/98	Matrix	: Water
Date Analyzed	: 4/2/98	Lab File No.	: GAS0402010

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

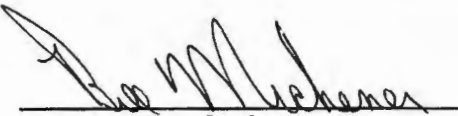
Temperature	: 73.3 F	Saturation	Meth		0
Amount Injected	: 0.5 ml	Concentration			
Total Volume of Sample	: 43 ml	Concentration	Meth		0
Head space created	: 4 ml	in Head Space			
Methane Area	: 0 ug	Saturation	Etha		0
Ethane Area	: 0 ug	Concentration			
Ethene Area	: 0 ug	Concentration	Etha		0
Atomic weight(Methane)	: 16 g	in Head Space			
Atomic weight(Ethane)	: 30 g	Saturation	Ethe		0
Atomic weight(Ethene)	: 28 g	Concentration			
		Concentration	Ethe		0
		in Head Space			


**Qualifiers**

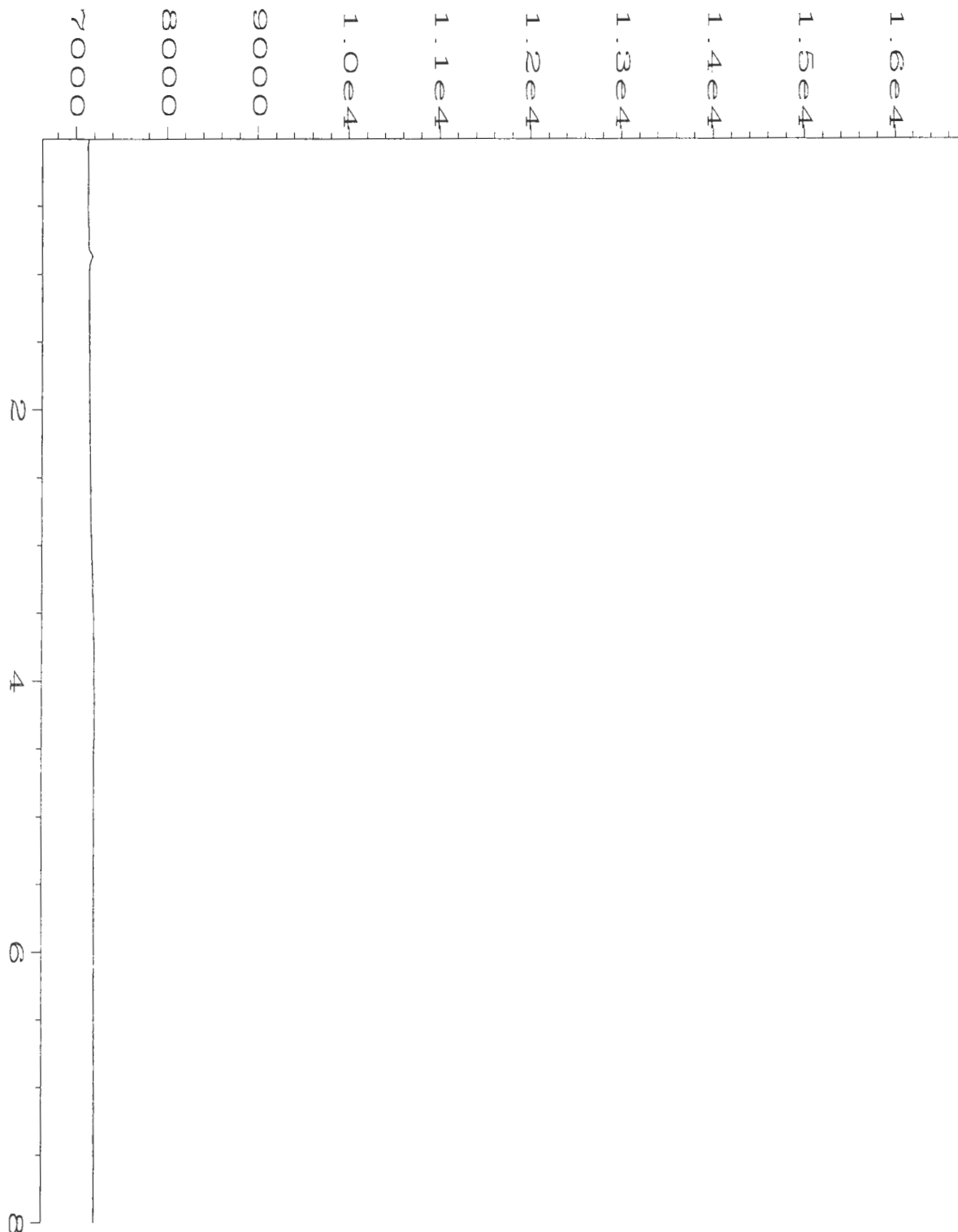
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\010R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 10
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-05A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 11:25 AM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:55 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL134		
	DF=1		

**EVERGREEN ANALYTICAL, INC.**  
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**Methane, Ethane, Ethene Report Form**

<b>Client Sample Number</b>	: AL161	<b>Client Project No.</b>	: 730769-01005
<b>Lab Sample Number</b>	: 98-1257-06	<b>Lab Work Order</b>	: 98-1257
<b>Date Sampled</b>	: 3/29/98	<b>Dilution Factor</b>	: 1.00
<b>Date Received</b>	: 3/31/98	<b>Method</b>	: RSKSOP-175M
<b>Date Extracted/Prepared</b>	: 4/2/98	<b>Matrix</b>	: Water
<b>Date Analyzed</b>	: 4/2/98	<b>Lab File No.</b>	: GAS0402011

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 73.2 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

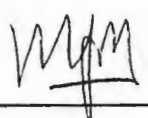
**Qualifiers**

E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

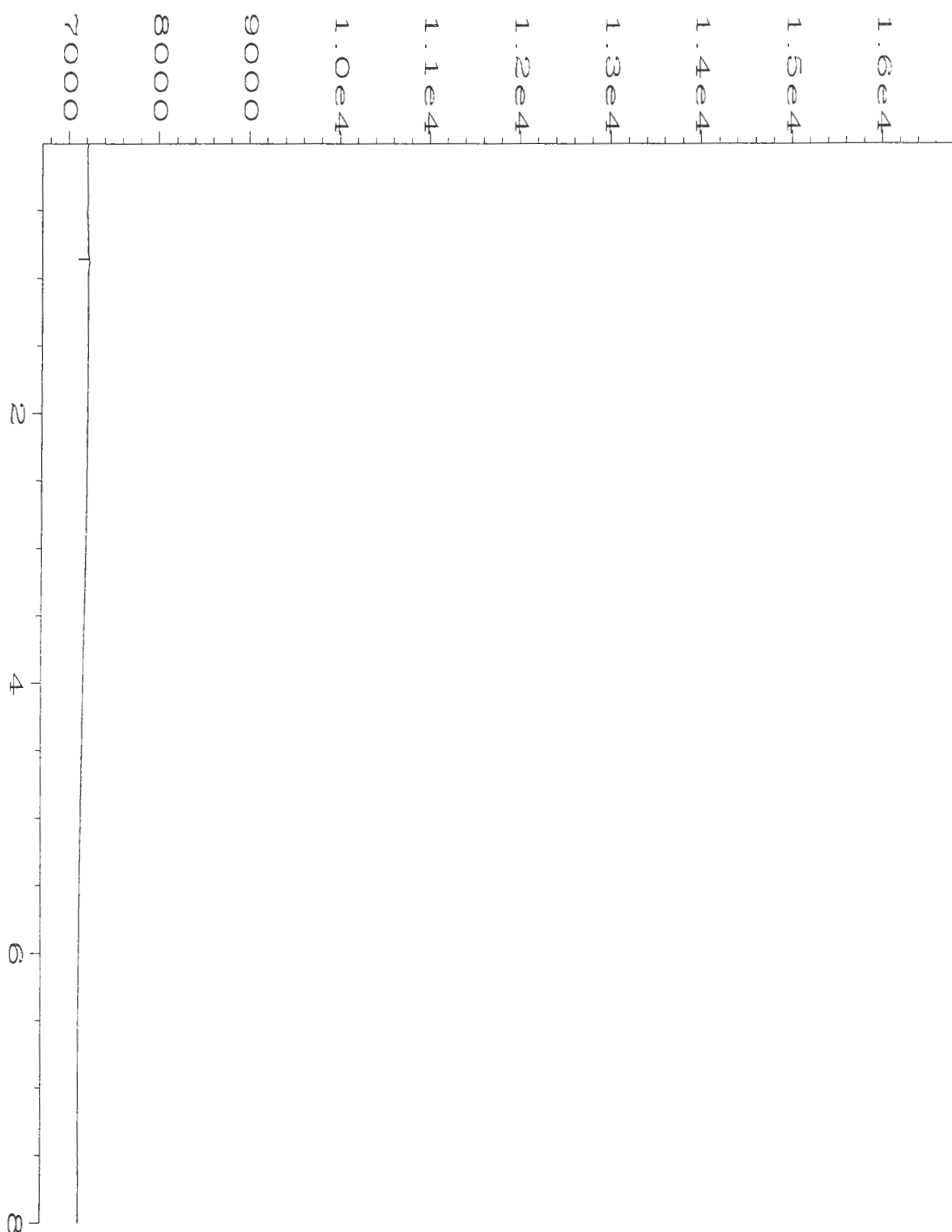
**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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Data File Name : C:\HPCHEM\ALGA\DATA\GAS0402\011R0101.D  
 Operator : Bill Michener  
 Instrument : ALGA  
 Sample Name : 98-1257-06A  
 Run Time Bar Code:  
 Acquired on : 02 Apr 98 11:34 AM  
 Report Created on: 02 Apr 98 01:55 PM  
 Last Recalib on : 03 SEP 97 11:40 AM  
 Multiplier : 1  
 Sample Info : SAMP METHETH  
 AL161  
 DF=1

Page Number : 1  
 Vial Number : 11  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: GAS.MTH  
 Analysis Method : GAS0402.MTH  
 Sample Amount : 0  
 ISTD Amount :

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL149	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1257-07	Lab Work Order	: 98-1257
Date Sampled	: 3/28/98	Dilution Factor	: 1.00
Date Received	: 3/31/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/2/98	Matrix	: Water
Date Analyzed	: 4/2/98	Lab File No.	: GAS0402012

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

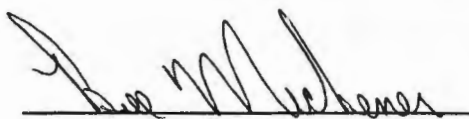
Temperature	: 73.1 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

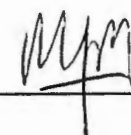
**Qualifiers**

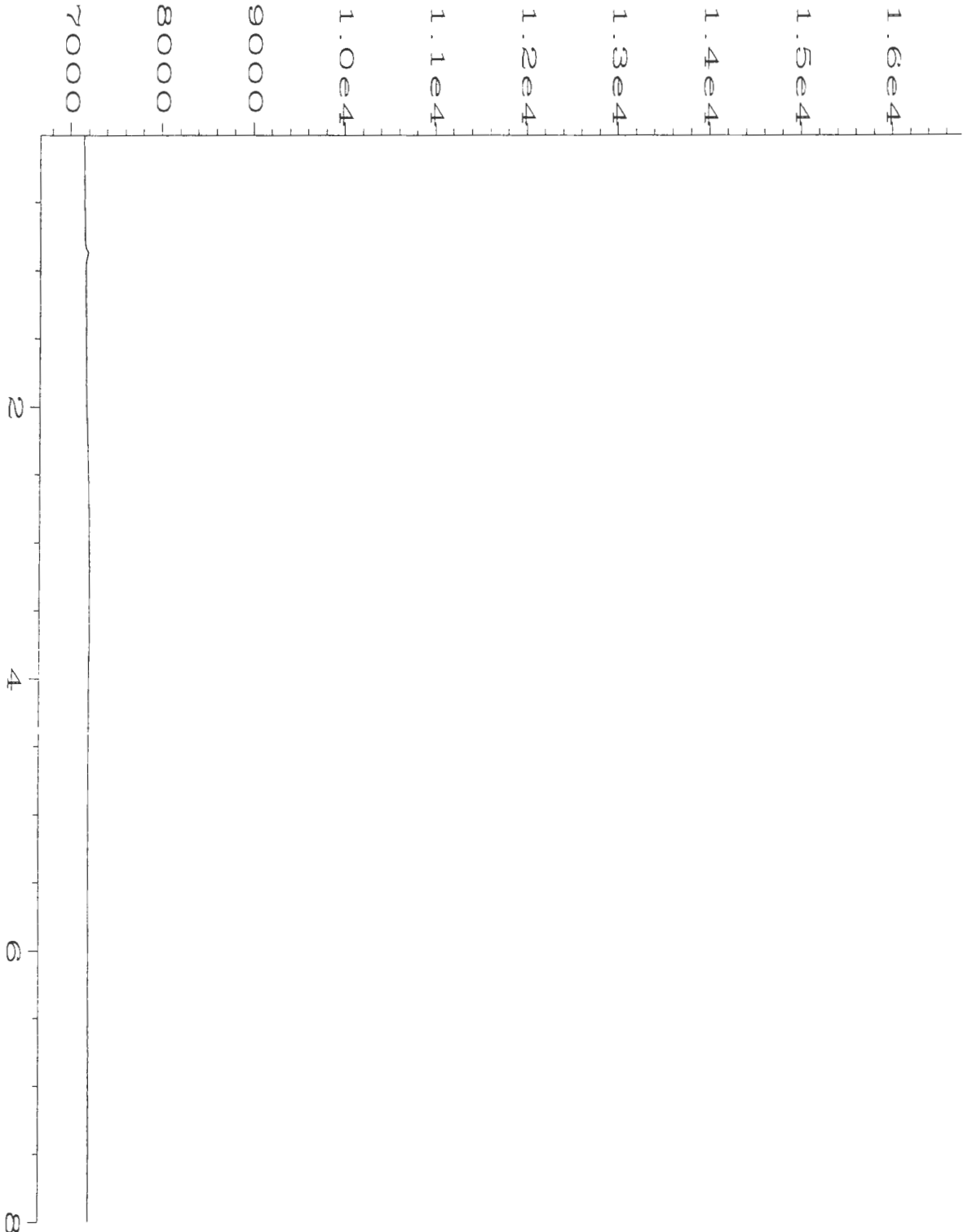
E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\012R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 12
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-07A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 11:43 AM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:55 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL149		
	DF=1		

**EVERGREEN ANALYTICAL, INC.**  
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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL149	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1257-07Dup	Lab Work Order	: 98-1257
Date Sampled	: 3/28/98	Dilution Factor	: 1.00
Date Received	: 3/31/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/2/98	Matrix	: Water
Date Analyzed	: 4/2/98	Lab File No.	: GAS0402013

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

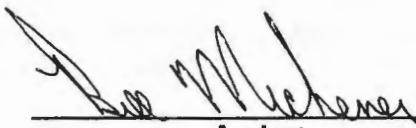
Temperature	: 73.1 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

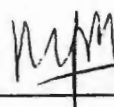
**Qualifiers**

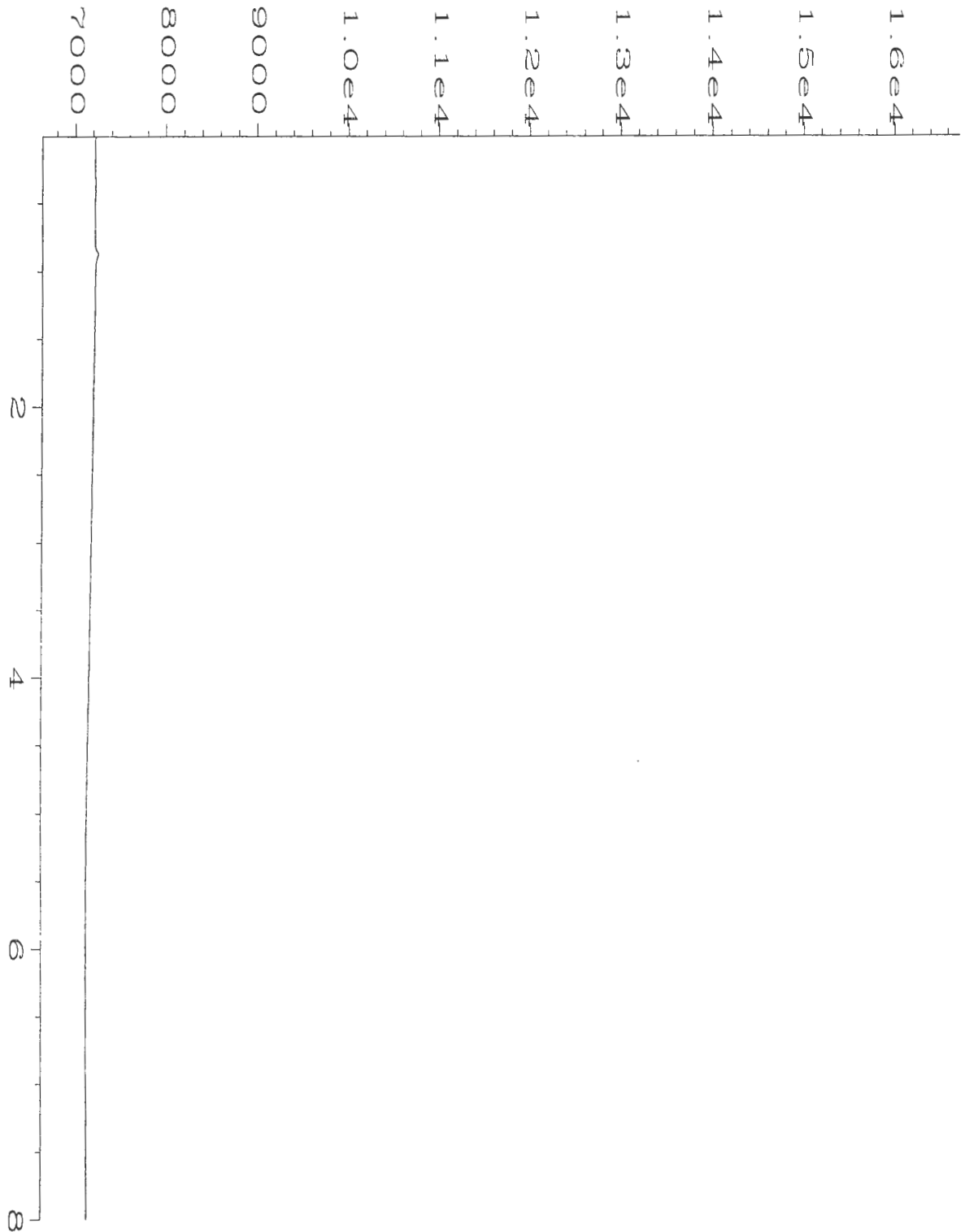
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\013R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 13
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-07ADup	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 11:52 AM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:55 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: DUP METHETH		
	AL149		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

<b>Client Sample Number</b>	: AL135	<b>Client Project No.</b>	: 730769-01005
<b>Lab Sample Number</b>	: 98-1257-08	<b>Lab Work Order</b>	: 98-1257
<b>Date Sampled</b>	: 3/29/98	<b>Dilution Factor</b>	: 1.00
<b>Date Received</b>	: 3/31/98	<b>Method</b>	: RSKSOP-175M
<b>Date Extracted/Prepared</b>	: 4/2/98	<b>Matrix</b>	: Water
<b>Date Analyzed</b>	: 4/2/98	<b>Lab File No.</b>	: GAS0402015

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.058	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

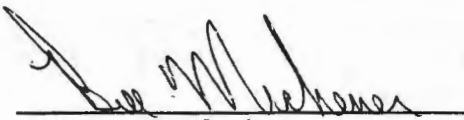
Temperature	: 73.2 F	Saturation	Meth	0.014084884
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.044278378
Head space created	: 4 ml	in Head Space		
Methane Area	: 327.537 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

**Qualifiers**

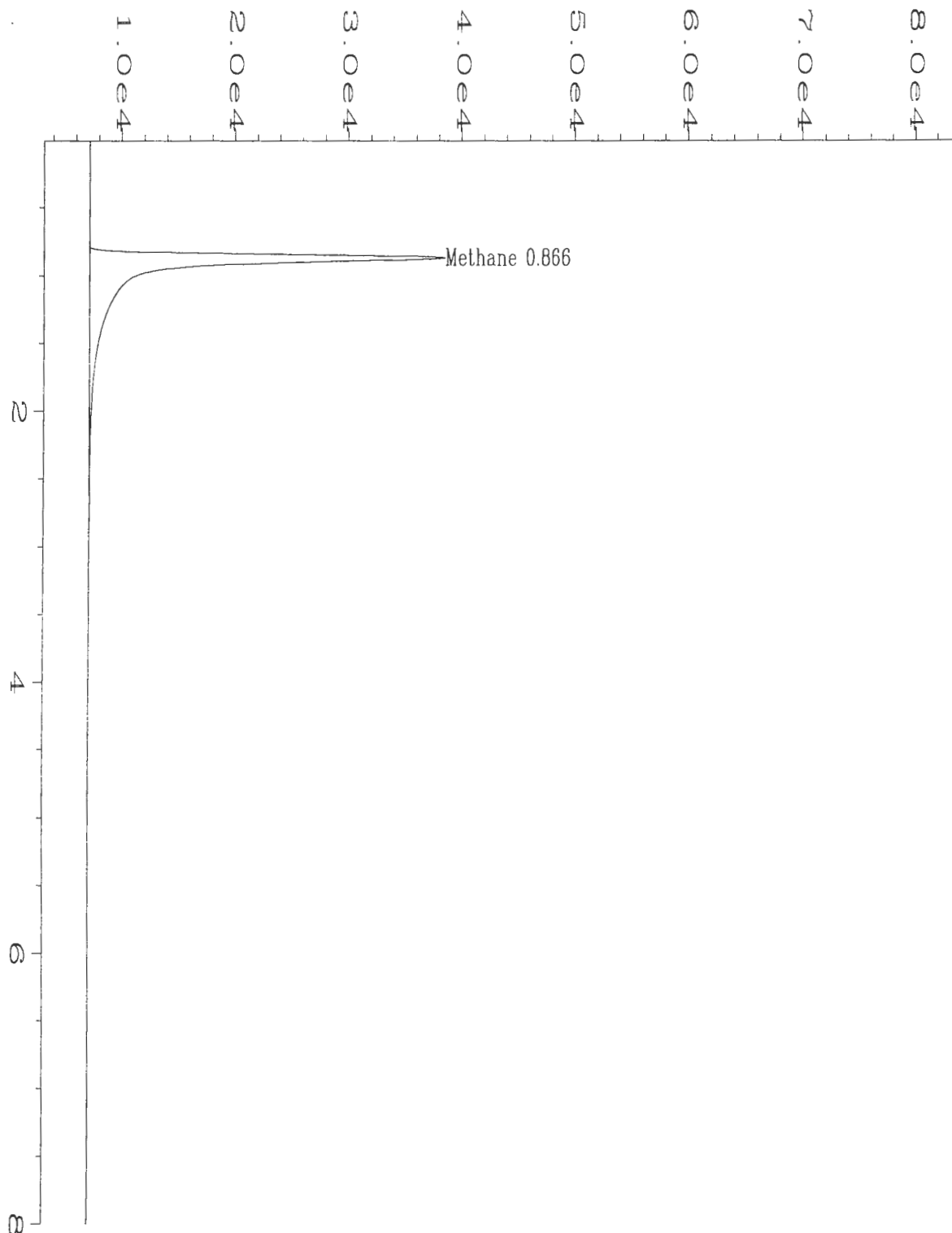
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 Analyst

  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\015R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 15
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-08A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 12:56 PM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:56 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL135		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL147	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1257-09	Lab Work Order	: 98-1257
Date Sampled	: 3/28/98	Dilution Factor	: 1.00
Date Received	: 3/31/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/2/98	Matrix	: Water
Date Analyzed	: 4/2/98	Lab File No.	: GAS0402016

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0047	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

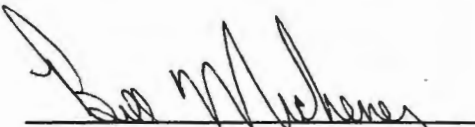
Temperature	: <u>72.5 F</u>	Saturation	Meth	: <u>0.001133888</u>
Amount Injected	: <u>0.5 ml</u>	Concentration		
Total Volume of Sample	: <u>43 ml</u>	Concentration	Meth	: <u>0.003569272</u>
Head space created	: <u>4 ml</u>	in Head Space		
Methane Area	: <u>26.368 ug</u>	Saturation	Etha	: <u>0</u>
Ethane Area	: <u>0 ug</u>	Concentration		
Ethene Area	: <u>0 ug</u>	Concentration	Etha	: <u>0</u>
Atomic weight(Methane)	: <u>16 g</u>	in Head Space		
Atomic weight(Ethane)	: <u>30 g</u>	Saturation	Ethe	: <u>0</u>
Atomic weight(Ethene)	: <u>28 g</u>	Concentration		
		Concentration	Ethe	: <u>0</u>
		in Head Space		

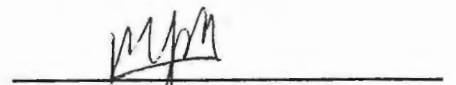
**Qualifiers**

E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

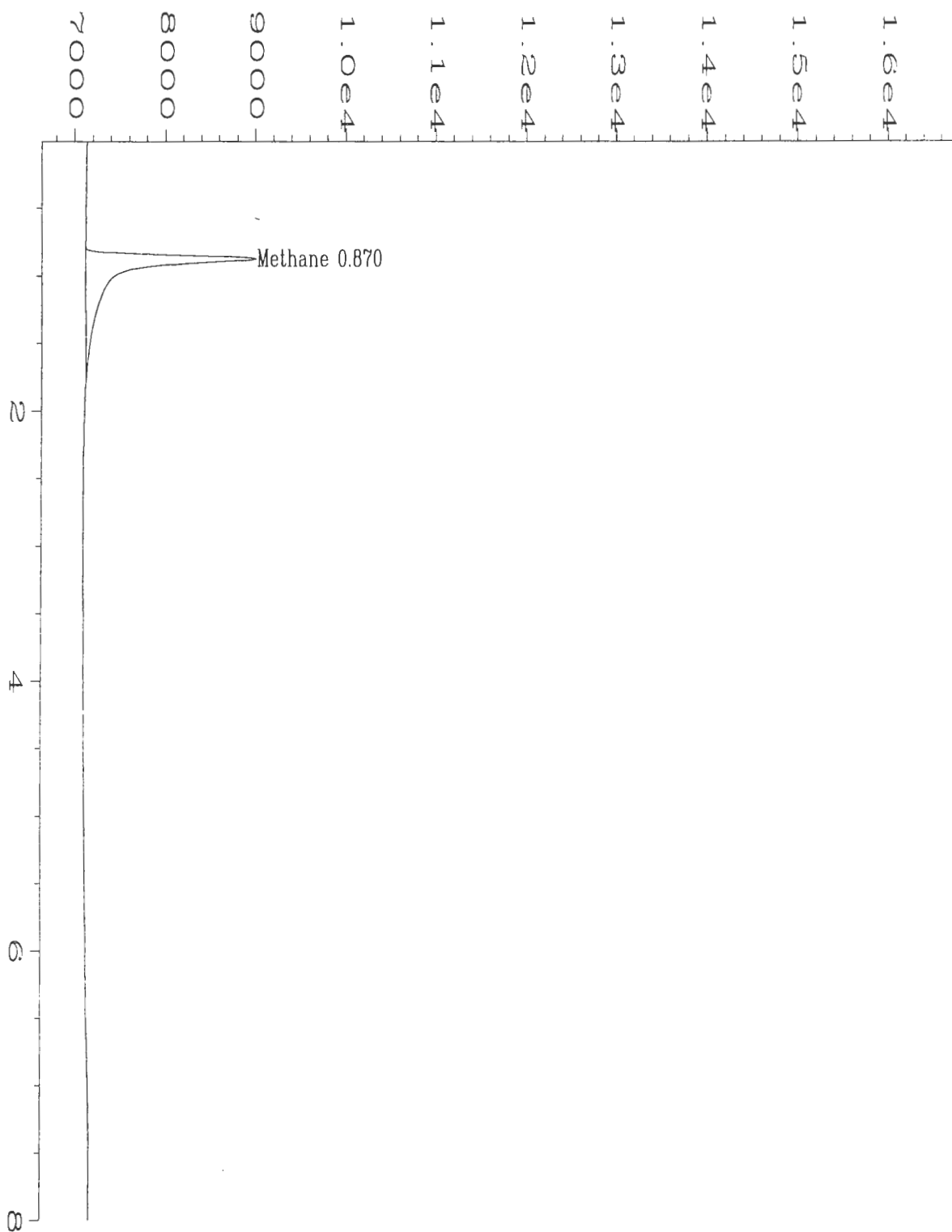
**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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 Approved





Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\016R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 16
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-09A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 01:05 PM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:56 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL147		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL145	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1257-10	Lab Work Order	: 98-1257
Date Sampled	: 3/29/98	Dilution Factor	: 1.00
Date Received	: 3/31/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/2/98	Matrix	: Water
Date Analyzed	: 4/2/98	Lab File No.	: GAS0402017

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0034	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

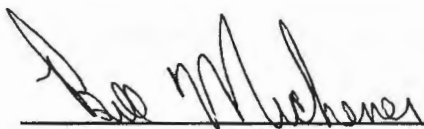
Temperature	: 73.0 F	Saturation	Meth	0.00081997
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.002578693
Head space created	: 4 ml	in Head Space		
Methane Area	: 19.068 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

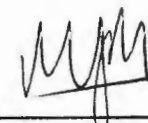
**Qualifiers**

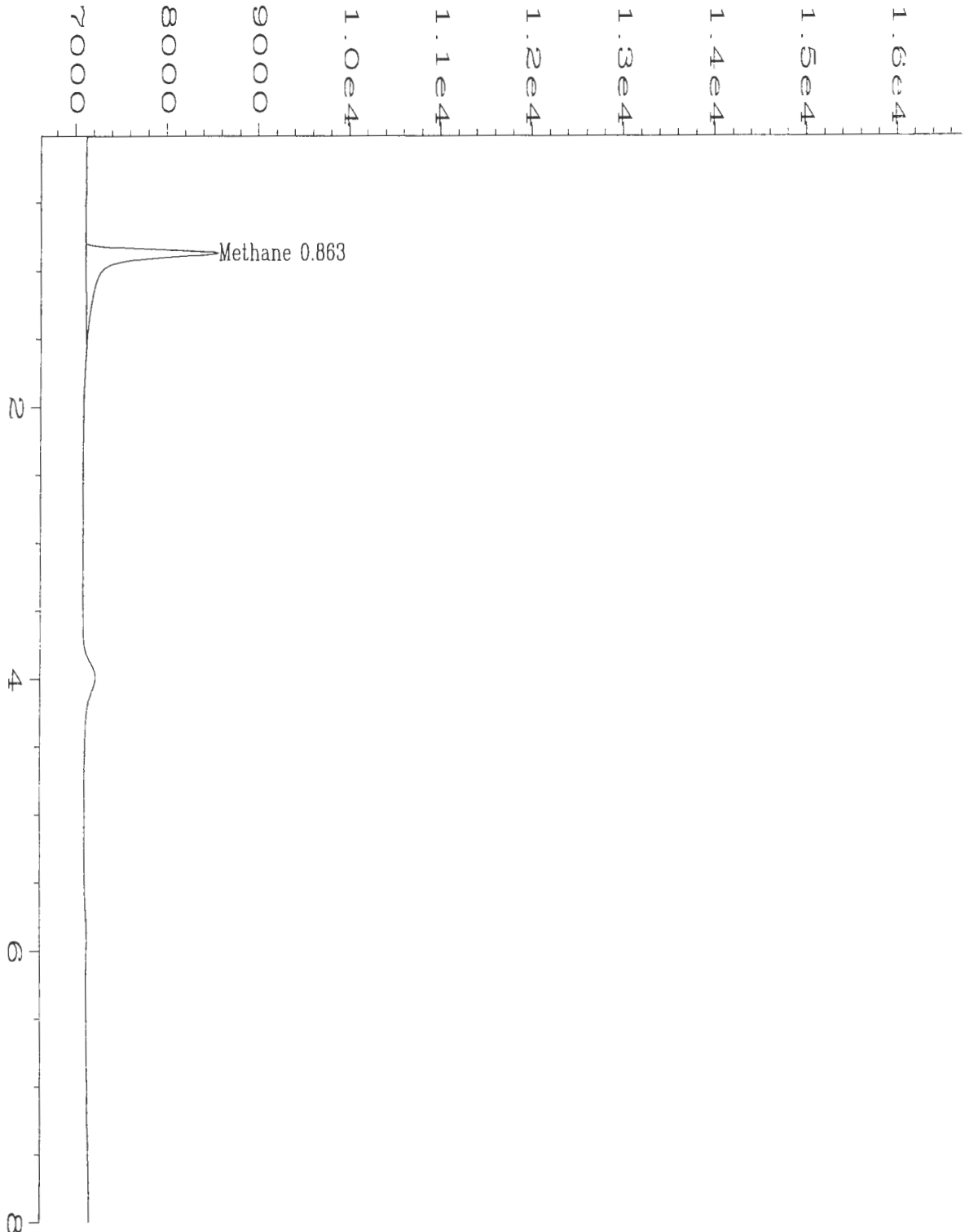
E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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Analyst

  
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Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\017R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 17
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-10A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 01:21 PM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 02:00 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL145		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL139	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1257-11	Lab Work Order	: 98-1257
Date Sampled	: 3/29/98	Dilution Factor	: 1.00
Date Received	: 3/31/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/2/98	Matrix	: Water
Date Analyzed	: 4/2/98	Lab File No.	: GAS0402018

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 72.8 F	Saturation	Meth	: 0
Amount Injected	: 0.5 ml	Concentration	Meth	: 0
Total Volume of Sample	: 43 ml	Concentration	Meth	: 0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	: 0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	: 0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	: 0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	: 0
		in Head Space		


**Qualifiers**

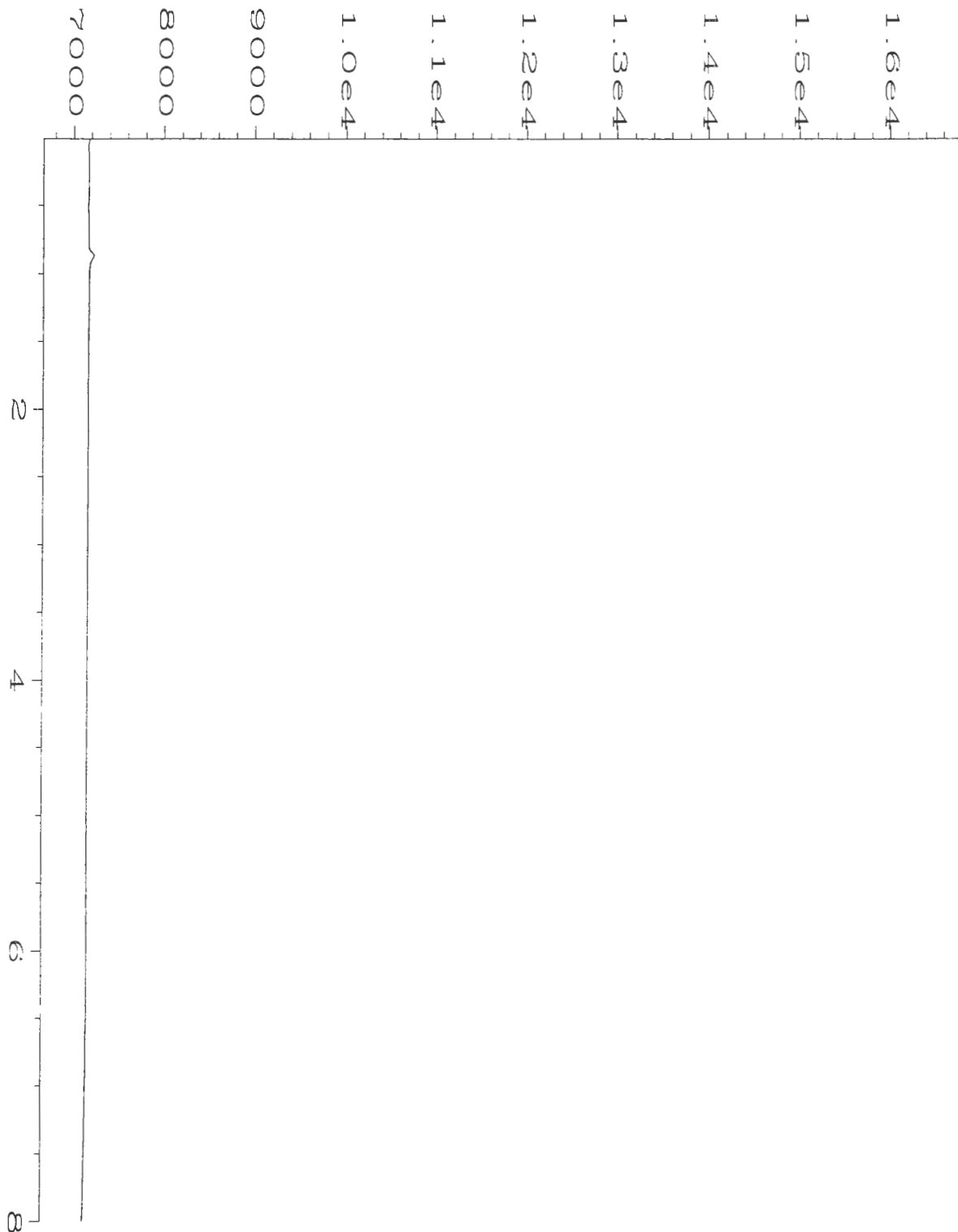
E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\018R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 18
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-11A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 01:30 PM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:56 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL139		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL160	Client Project No.	: 730769-01005
Lab Sample Number	: 98-1257-12	Lab Work Order	: 98-1257
Date Sampled	: 3/29/98	Dilution Factor	: 1.00
Date Received	: 3/31/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 4/2/98	Matrix	: Water
Date Analyzed	: 4/2/98	Lab File No.	: GAS0402019

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 73.0 F	Saturation	Meth	0
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0
Head space created	: 4 ml	in Head Space		
Methane Area	: 0 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0
		in Head Space		

**Qualifiers**

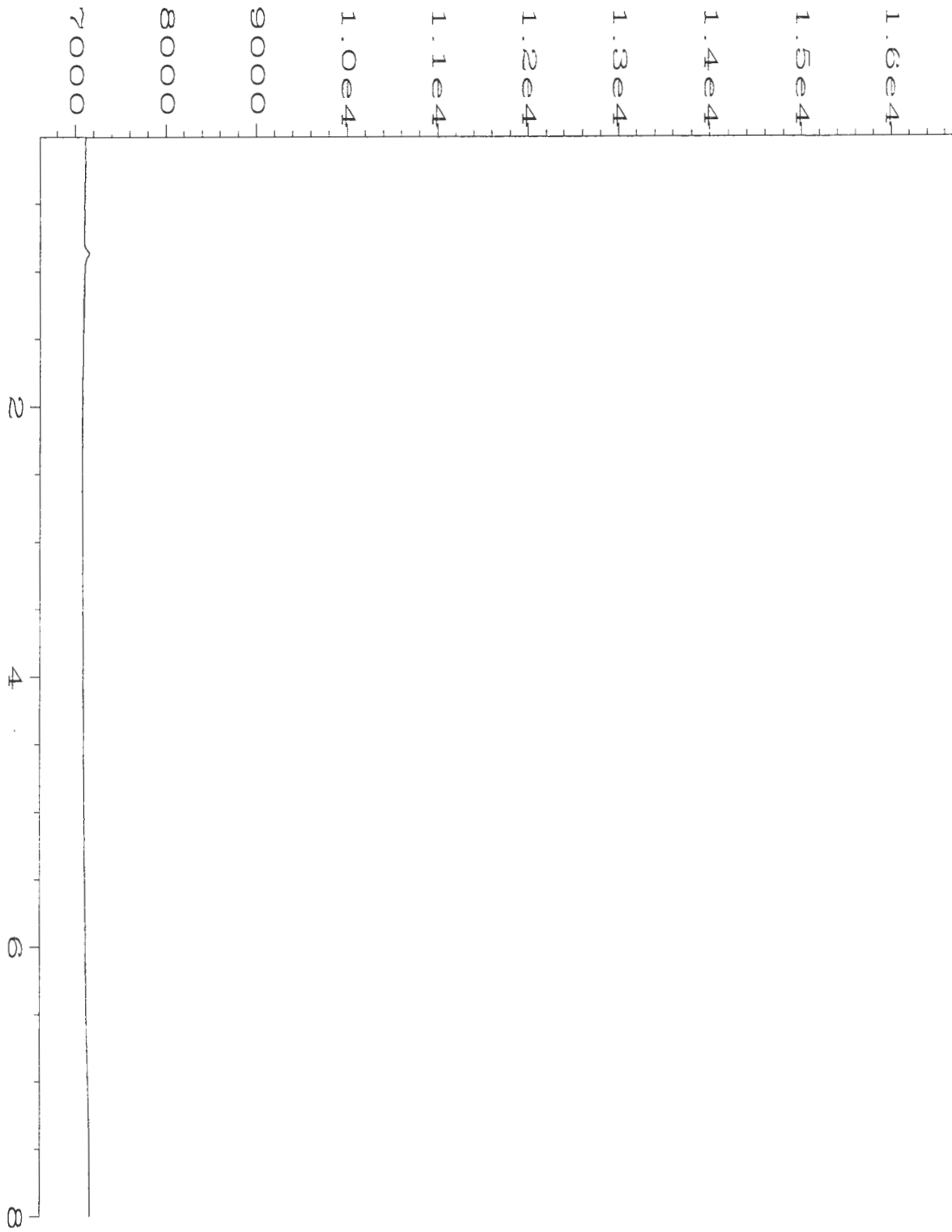
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\019R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 19
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-12A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 01:39 PM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 01:56 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL160		
	DF=1		

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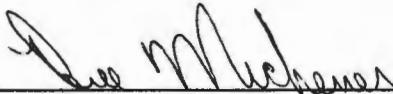
Methane, Ethane, Ethene Report Form  
Method Blank Report

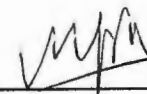
Method Blank Number	: GB040298	Client Project No.	: 730769-01005
Date Extracted/Prepared	: 4/2/98	Lab Work Order	: 98-1257
Date Analyzed	: 4/2/98	Dilution Factor	: 1.00
		Method	: RSKSOP-175M
		Matrix	: Water
		Lab File No.	: GAS0402005

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

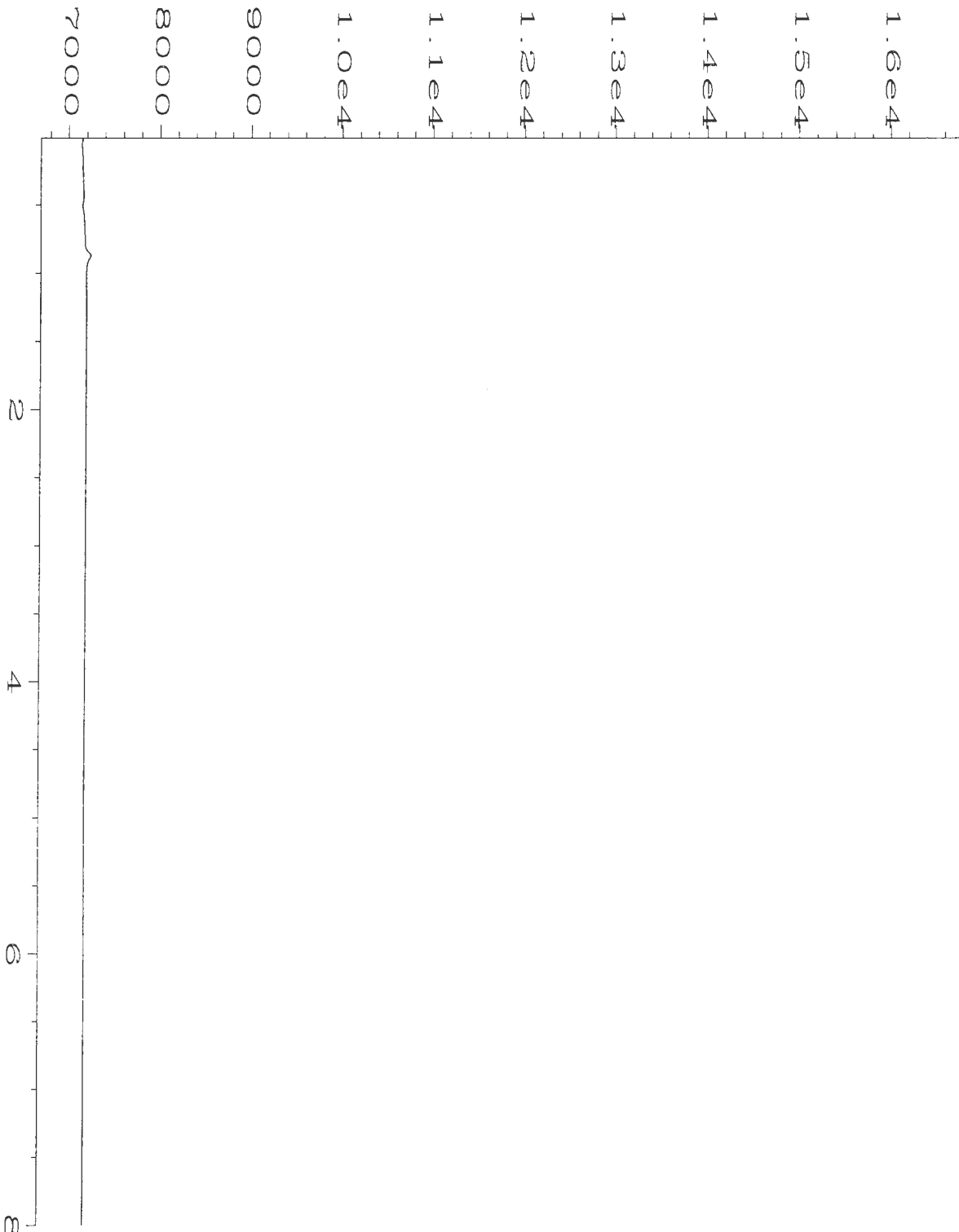
Qualifiers

E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

  
\_\_\_\_\_  
Analyst

  
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Approved





Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\005R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 5
Instrument	: ALGA	Injection Number	: 1
Sample Name	: GB040298	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 09:28 AM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 02:00 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MBLK METHETH		

Displaced 4ml of distilled water in 43ml vial with Helium, shock for 5 min. and injected 500ul.

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**RSK-175M Gas Method**  
**Methane, Ethane, Ethene Gas Matrix Spike / Matrix Spike Duplicate Report**

Client Sample No.	: AL145	Client Project No.	: 730769-01005
Lab Sample No.	: 98-1257-10	Lab Work Order	: 98-1257
Date Sampled	: 3/29/98	EPA Method No.	: RSKSOP-175M
Date Received	: 3/31/98	Matrix	: Water
Date Prepared	: 4/2/98	Method Blank	: GB040298
Date Analyzed	: 4/2/98	Lab File No's.	: GB0402020,021
E.A. MS/MSD Spike Source No.	: 1719		

Compound	Spike Added (ug)	Sample ** Concentration (ug)	MS Concentration (ug)	MS %REC	QC Limits %REC
Methane Gas	500	2	334	66	47-88
Ethene Gas	500	0	211	42	29-53
Ethane Gas	500	0	311	62	41-77

Compound	Spike Added (ug)	MSD Concentration (ug)	MSD %REC	RPD	QC Limits	
					RPD	%REC
Methane Gas	500	334	66	0.2	0-16.4	47-88
Ethene Gas	500	211	42	0.3	0-26.4	29-53
Ethane Gas	500	309	62	0.5	0-26.3	41-77

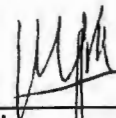
RPD: 0 out of (3) outside limits.  
Spike Recovery: 0 out of (6) outside limits.

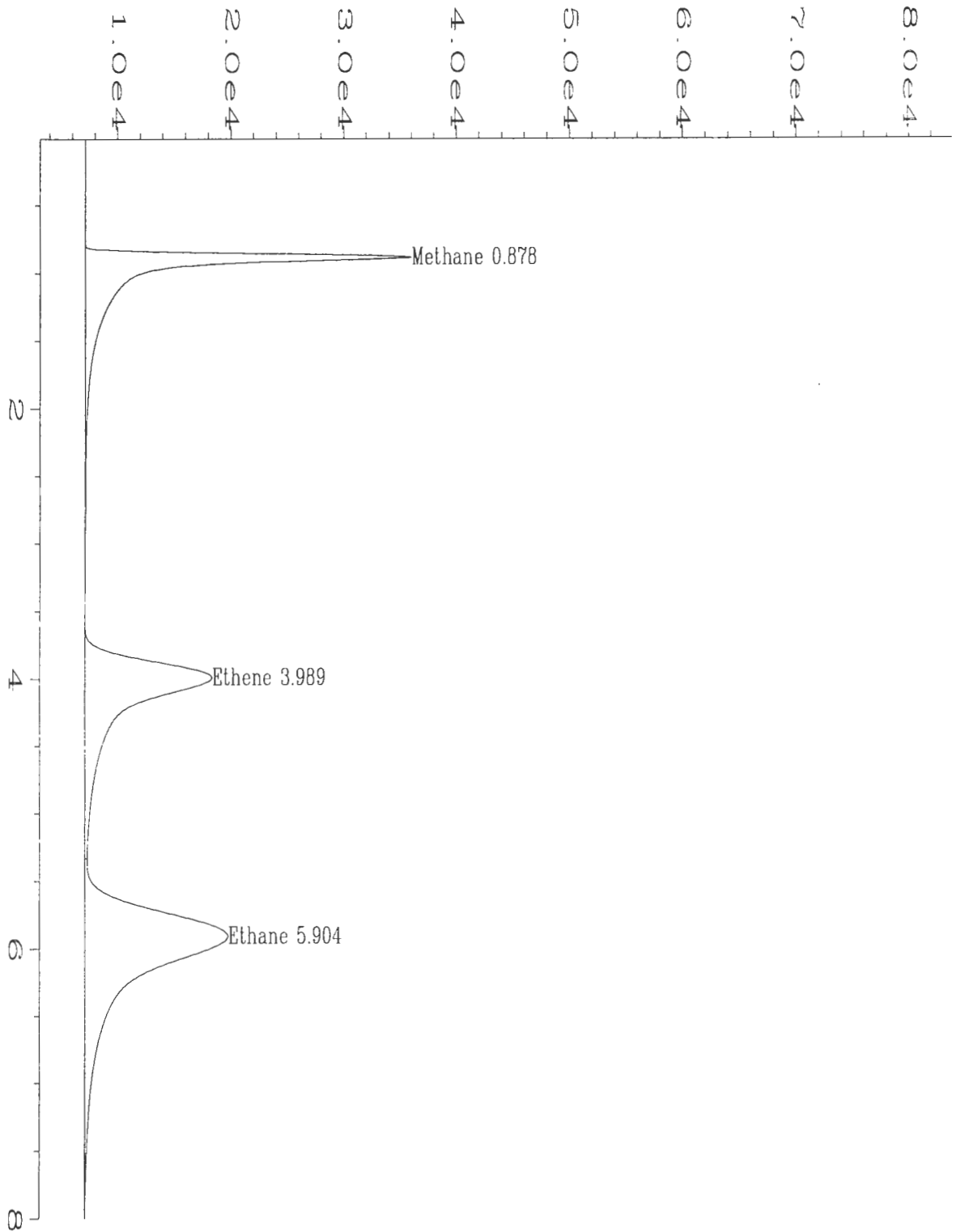
**Notes**

- \* = Values outside of QC limits.
- \*\* = Sample concentration reported at DF = 10.
- NA = Not analyzed/not available

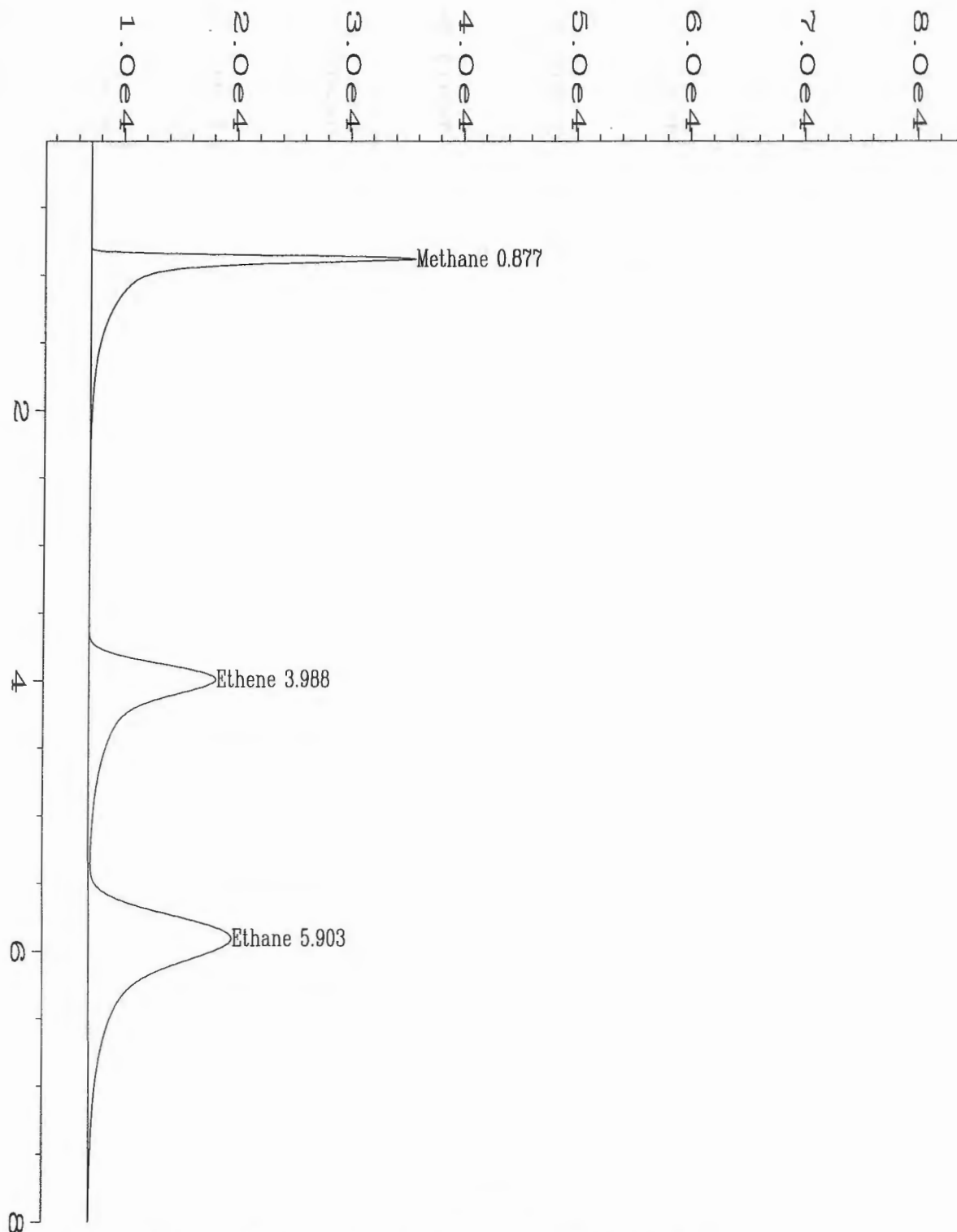
Note: The Spike was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug. Sample injected at DF = 10.

  
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Analyst

  
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Approved



Data File Name : C:\HPCHEM\ALGA\DATA\GAS0402\020R0101.D  
 Operator : Bill Michener Page Number : 1  
 Instrument : ALGA Vial Number : 20  
 Sample Name : 98-1257-10AMS Injection Number : 1  
 Run Time Bar Code: Sequence Line : 1  
 Acquired on : 02 Apr 98 01:48 PM Instrument Method: GAS.MTH  
 Report Created on: 02 Apr 98 01:56 PM Analysis Method : GAS0402.MTH  
 Last Recalib on : 03 SEP 97 11:40 AM Sample Amount : 0  
 Multiplier : 1 ISTD Amount :  
 Sample Info : MS METHETH  
 AL145  
 Displaced 4ml with 1% methane, ethane and ethene gas(#1719).



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0402\021R0101.D	Page Number	: 1
Operator	: Bill Michener	Vial Number	: 21
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-1257-10AMSD	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 02 Apr 98 01:57 PM	Analysis Method	: GAS0402.MTH
Report Created on:	02 Apr 98 02:05 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MSD METHETH		
	AL145		
	Displaced 4ml with 1% methane, ethane and ethene gas(#1719).		

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**RSKSOP-175M Gas Method**  
**Methane, Ethane, Ethene LCS Report Form**

LCS No. : LCS040298                      EPA Method No. : RSKSOP-175M  
Date Prepared : 4/2/98                      Matrix : Water  
Date Analyzed : 4/2/98                      Method Blank : GB040298  
E.A. LCS Source No. : 1719                      Lab File No. : GAS0402004

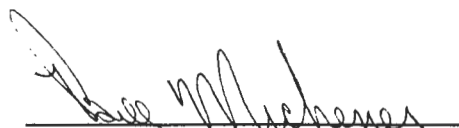
Compound	Spike Added (ug)	Method Blank Concentration (ug)	LCS Concentration (ug)	LCS %REC	QC Limits %REC
Methane Gas	500	0	366	73	64-90
Ethene Gas	500	0	193	39	37-58
Ethane Gas	500	0	292	58	53-83

Spike Recovery: 0 out of (3) outside limits.

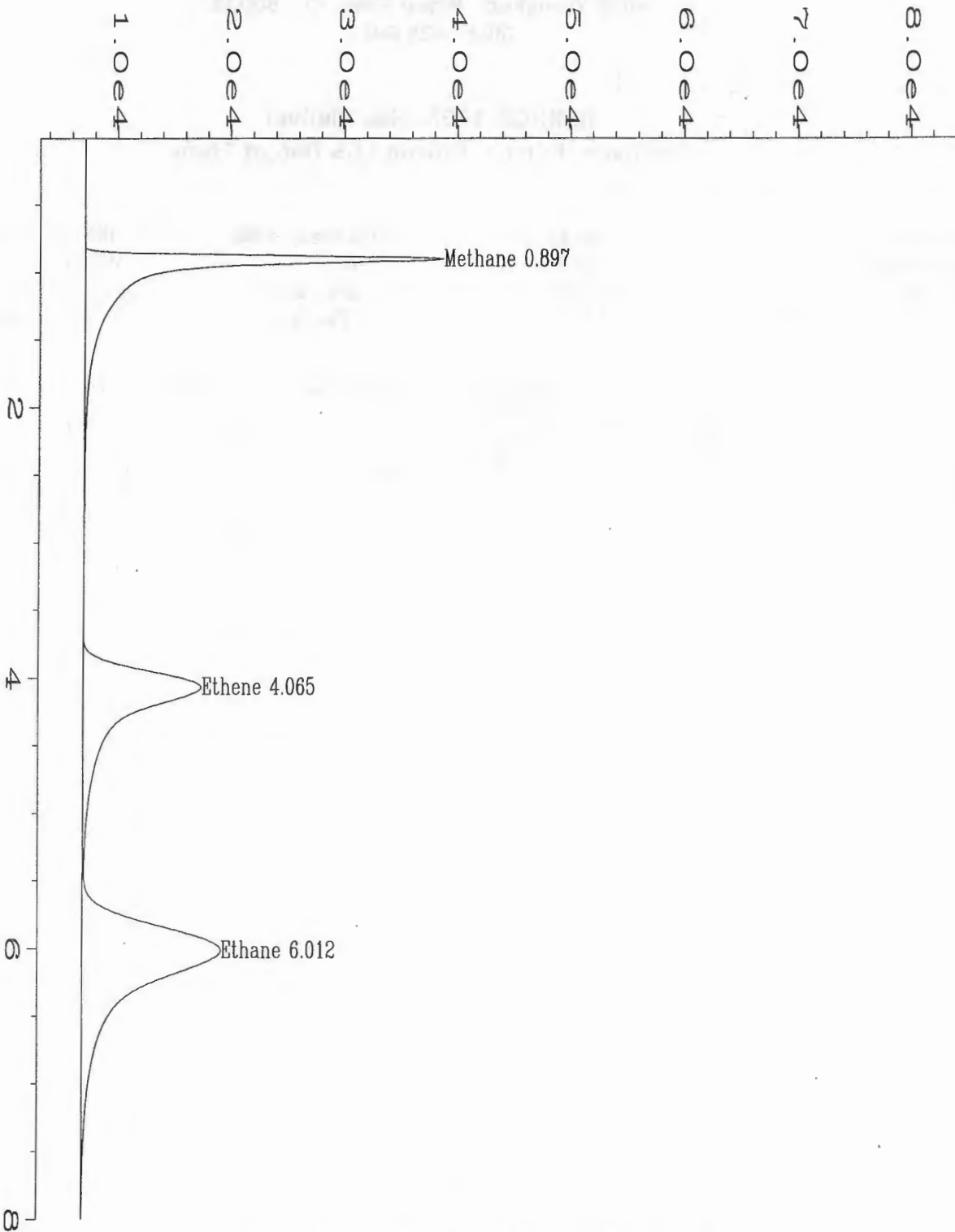
Note: The LCS was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug.

**Notes**

\* = Values outside of QC limits.  
NA = Not analyzed/not available.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name : C:\HPCHEM\ALGA\DATA\GAS0402\004R0101.D  
 Operator : Bill Michener  
 Instrument : ALGA  
 Sample Name : LCS040298  
 Run Time Bar Code:  
 Acquired on : 02 Apr 98 09:16 AM  
 Report Created on: 02 Apr 98 02:00 PM  
 Last Recalib on : 03 SEP 97 11:40 AM  
 Multiplier : 1  
 Sample Info : LCS METHETH

Page Number : 1  
 Vial Number : 4  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: GAS.MTH  
 Analysis Method : GAS0402.MTH  
 Sample Amount : 0  
 ISTD Amount :

Displaced 4ml of distilled water in 43ml vial with 1% methane, ethane, and ethene gas(#1719). shook for 5 min. and