



SDMS DocID 448685

SITE:	3-0477.2
BREAK:	2.2
OTHER:	

Superfund Records Center

SITE: Wells 68H 012

BREAK: 2.2

OTHER: 448685



MURPHY'S WASTE OIL SERVICE, INC.

Volume 3 of 3

Corrective Action Investigation Report

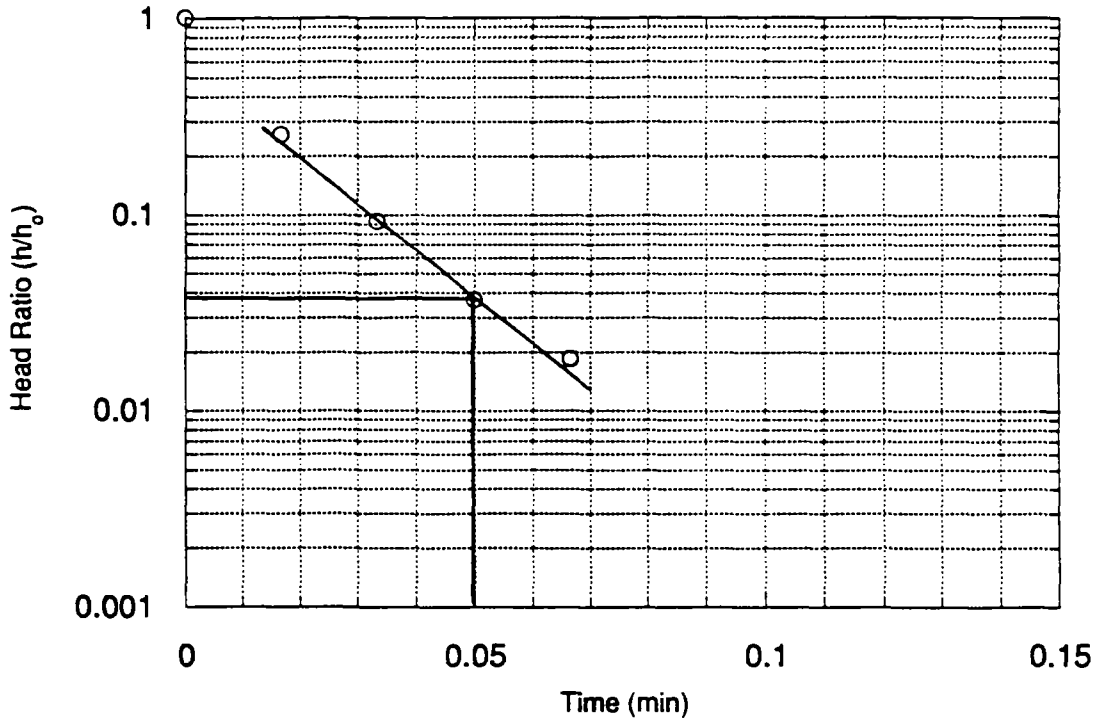
Murphy's Waste Oil Service, Inc.
252 Salem Street
Woburn, MA 01801

April 15, 1996

Prepared by:
Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760



WELL MW-8



$L = 85.6 \text{ cm}$
 $T_0 = 3.0 \text{ sec}$
 $K = 2.85 \times 10^{-2} \text{ cm/sec}$

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_0 is time of recovery to 37 percent of initial change ($h/h_0 = 0.37$).

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors

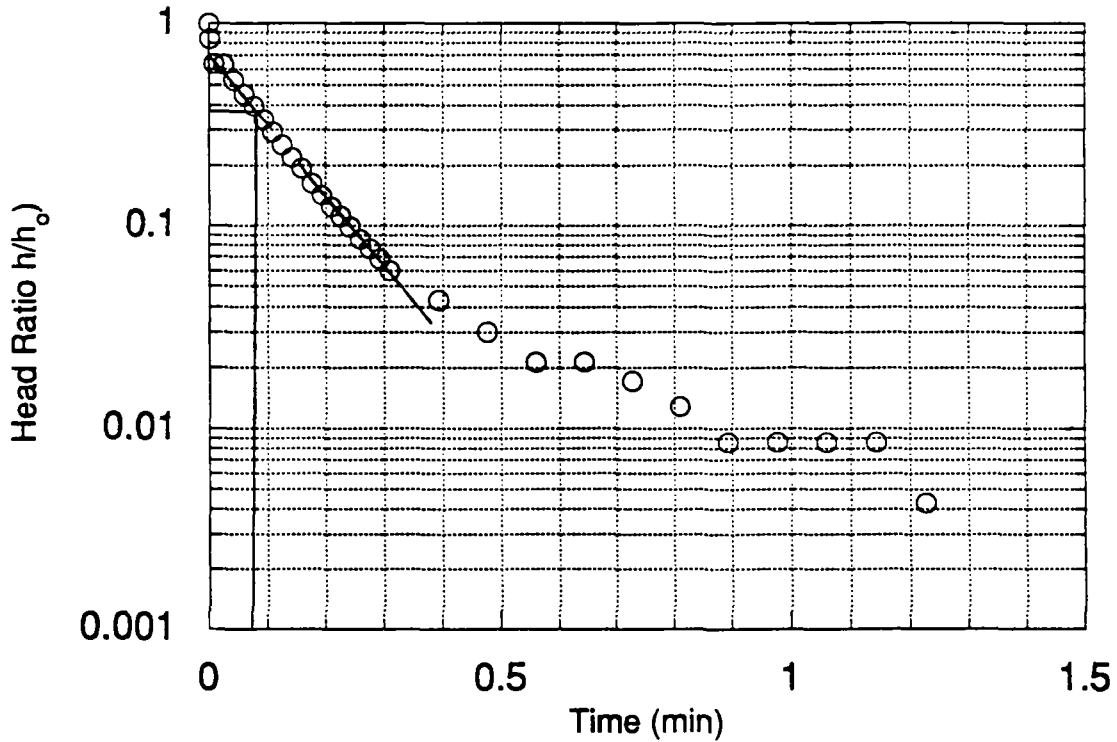
Environmental Services, Inc.
Remedial Technologies Division

12 MERCER ROAD
 NATICK, MASSACHUSETTS 01760
 (508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
 252 SALEM STREET
 WOBURN, MASSACHUSETTS
WELL MW-8 SLUG TEST

PROJECT NO. EN-170	DWG. NO.
SCALE: NA	

WELL MW-9



$L = 165.2 \text{ cm}$
 $T_0 = 5.0 \text{ sec}$
 $K = 1.16 \times 10^{-2} \text{ cm/sec}$

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_0 is time of recovery to 37 percent of initial change ($h/h_0 = 0.37$).

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors

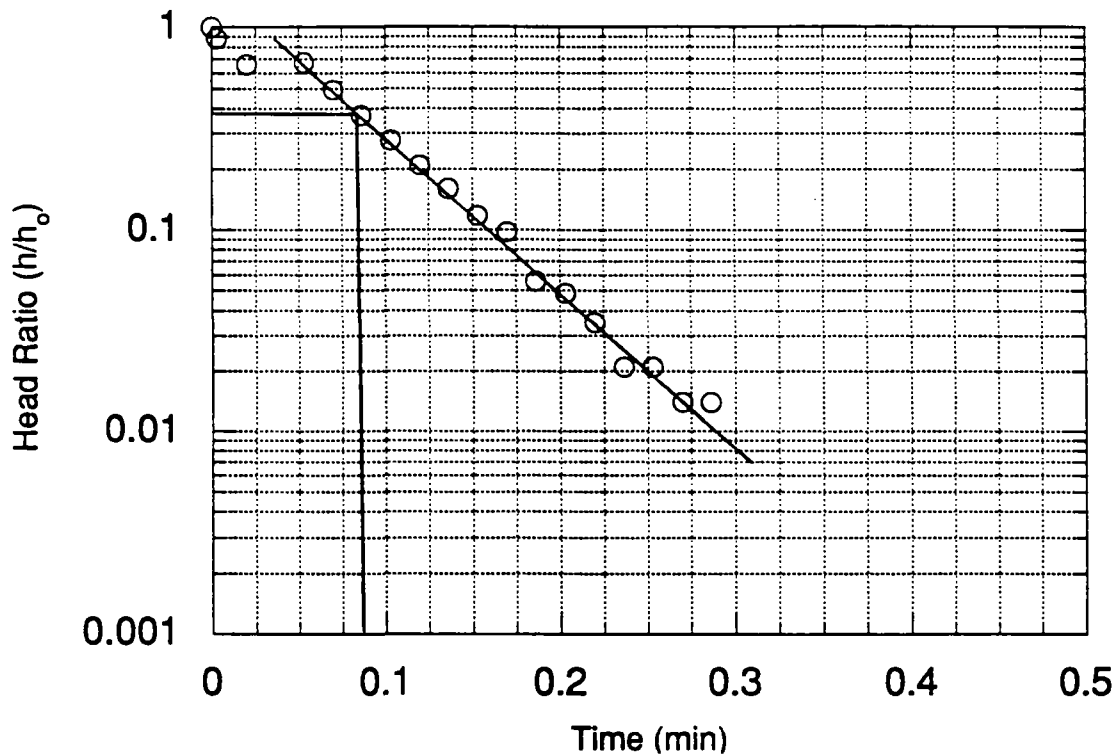
Environmental Services, Inc.
Remedial Technologies Division

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NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS
WELL MW-9 SLUG TEST

PROJECT NO. EN-170	DWG. NO.
SCALE: NA	

WELL MW-10



$L = 152.4 \text{ cm}$
 $T_o = 5.16 \text{ sec}$
 $K = 1.18 \times 10^{-2} \text{ cm/sec}$

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_o is time of recovery to 37 percent of initial change ($h/h_o = 0.37$).

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors

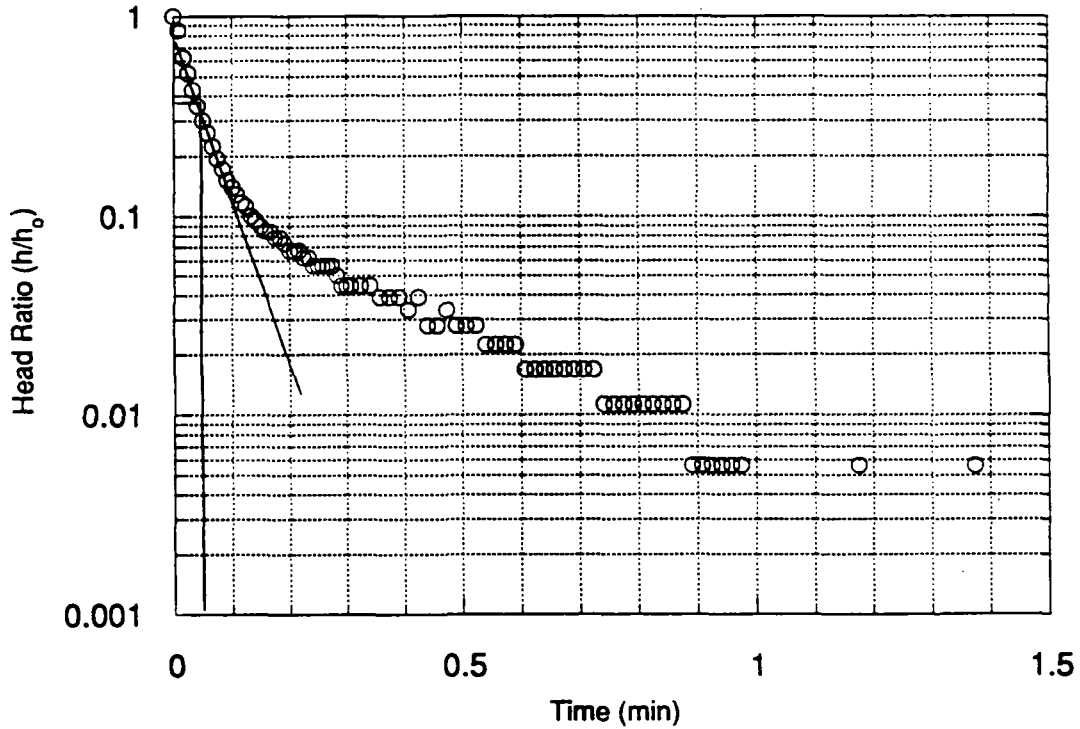
Environmental Services, Inc.
Remedial Technologies Division

12 MERCER ROAD
 NATICK, MASSACHUSETTS 01760
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MURPHY'S WASTE OIL SERVICE, INC.
 252 SALEM STREET
 WOBURN, MASSACHUSETTS
WELL MW-10 SLUG TEST

PROJECT NO. EN-170	DWG. NO.
SCALE: NA	

WELL MW-11



$L = 182.6 \text{ cm}$
 $T_0 = 2.41 \text{ sec}$
 $K = 2.25 \times 10^{-2} \text{ cm/sec}$

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_0 is time of recovery to 37 percent of initial change ($h/h_0 = 0.37$).

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors

Environmental Services, Inc.
Remedial Technologies Division
 12 MERCER ROAD
 NATICK, MASSACHUSETTS 01760
 (508) 650-6910

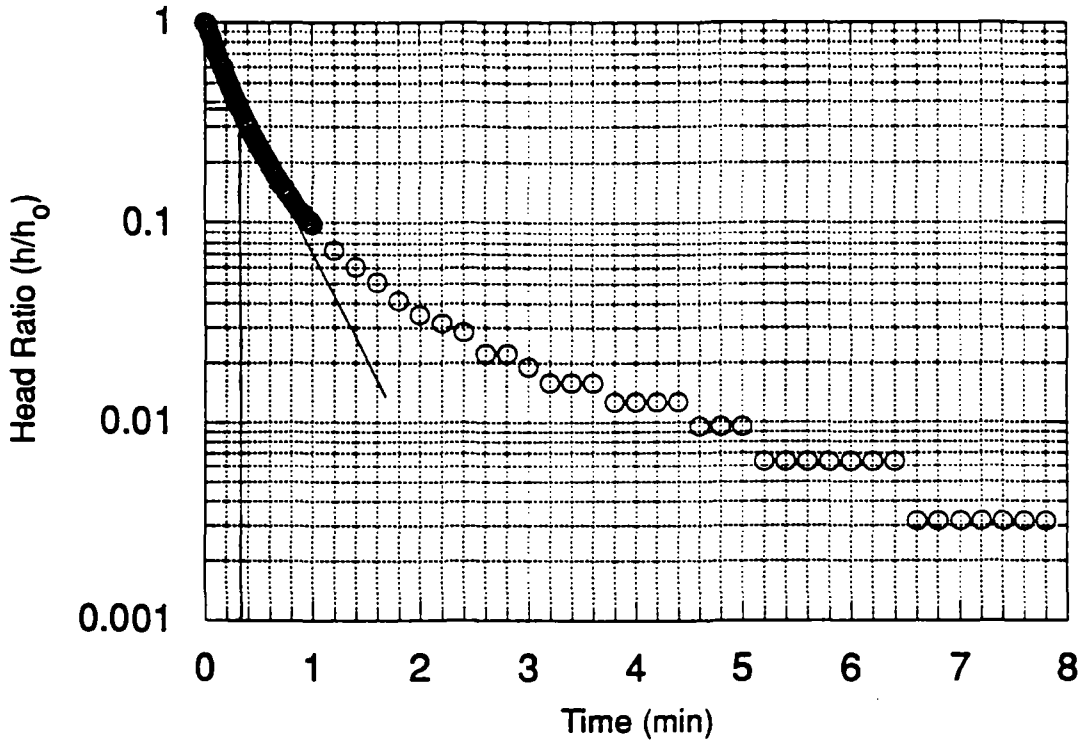
MURPHY'S WASTE OIL SERVICE, INC.
 252 SALEM STREET
 WOBURN, MASSACHUSETTS
WELL MW-11 SLUG TEST

PROJECT NO. EN-170

DWG. NO.

SCALE: NA

WELL MW-12



$L = 91.4 \text{ cm}$
 $T_0 = 19.24 \text{ sec}$
 $K = 2.64 \times 10^{-3} \text{ cm/sec}$

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_0 is time of recovery to 37 percent of initial change ($h/h_0 = 0.37$).

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors

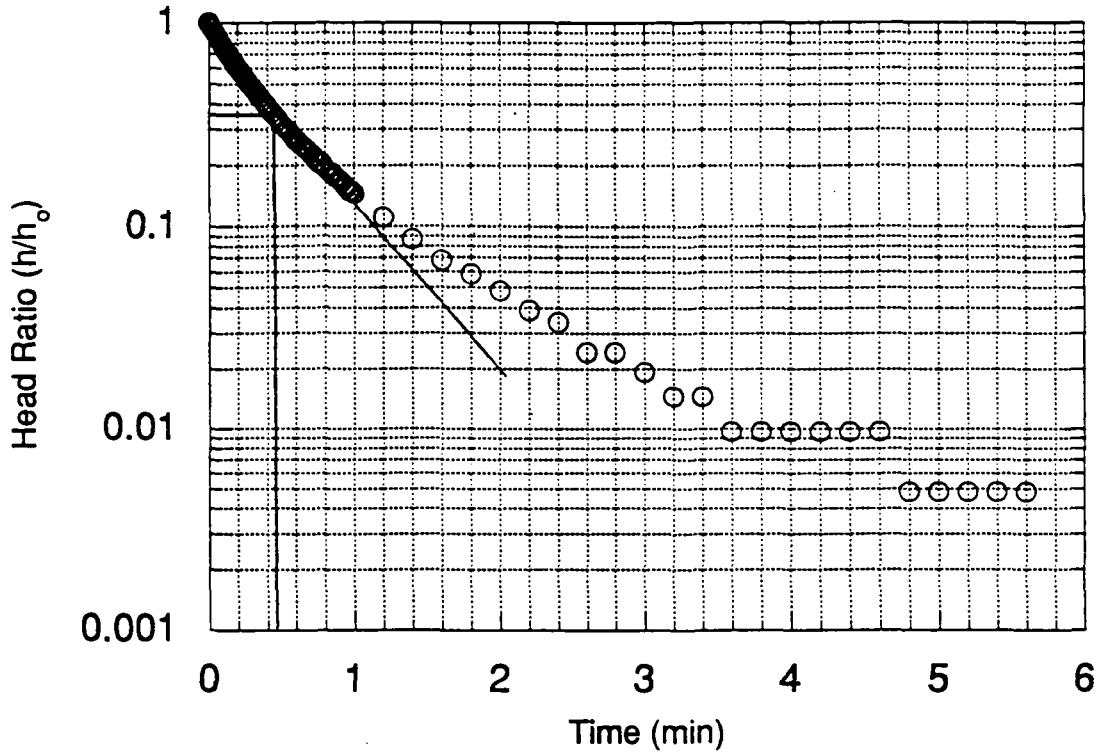
Environmental Services, Inc.
Remedial Technologies Division

12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS
WELL MW-12 SLUG TEST

PROJECT NO. EN-170	DWG. NO.
SCALE: NA	

WELL MW-13



$L = 91.4 \text{ cm}$
 $T_o = 25.47 \text{ sec}$
 $K = 2.00 \times 10^{-3} \text{ cm/sec}$

NOTES:

1. Rising head slug test performed by Clean Harbors on November 17, 1995.
2. L is average length of screen through which water passed during the test.
3. T_o is time of recovery to 37 percent of initial change ($h/h_o = 0.37$).

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors

Environmental Services, Inc.
Remedial Technologies Division

12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS
WELL MW-13 SLUG TEST

PROJECT NO. EN-170	DWG. NO.
SCALE: NA	Bureau of Waste Site Cleanup Mass. Dept. of Environmental Protection 1 Winter St. Boston, MA 02108

SLUG TEST DATA - WELL MW-8

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h ₀)
0.0000	0.00	44.59	0.540	1.0000
0.0166	1.00	44.99	0.140	0.2593
0.0333	2.00	45.08	0.050	0.0926
0.0500	3.00	45.11	0.020	0.0370
0.0666	4.00	45.12	0.010	0.0185
0.0833	5.00	45.13	0.000	0.0000
0.1000	6.00	45.13	0.000	0.0000
0.1166	7.00	45.13	0.000	0.0000
0.1333	8.00	45.13	0.000	0.0000

SLUG TEST DATA - WELL MW-9

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h ₀)
0.0000	0.00	42.90	2.340	1.0000
0.0033	0.20	43.29	1.950	0.8333
0.0100	0.60	43.75	1.490	0.6368
0.0267	1.60	43.76	1.480	0.6325
0.0433	2.60	44.01	1.230	0.5256
0.0600	3.60	44.19	1.050	0.4487
0.0767	4.60	44.32	0.920	0.3932
0.0933	5.60	44.45	0.790	0.3376
0.1100	6.60	44.56	0.680	0.2906
0.1267	7.60	44.65	0.590	0.2521
0.1433	8.60	44.73	0.510	0.2179
0.1600	9.60	44.79	0.450	0.1923
0.1767	10.60	44.86	0.380	0.1624
0.1933	11.60	44.91	0.330	0.1410
0.2097	12.58	44.95	0.290	0.1239
0.2267	13.60	44.98	0.260	0.1111
0.2433	14.60	45.01	0.230	0.0983
0.2600	15.60	45.04	0.200	0.0855
0.2767	16.60	45.06	0.180	0.0769
0.2933	17.60	45.08	0.160	0.0684
0.3100	18.60	45.10	0.140	0.0598
0.3934	23.60	45.14	0.100	0.0427
0.4767	28.60	45.17	0.070	0.0299
0.5600	33.60	45.19	0.050	0.0214
0.6434	38.60	45.19	0.050	0.0214
0.7267	43.60	45.20	0.040	0.0171
0.8100	48.60	45.21	0.030	0.0128
0.8934	53.60	45.22	0.020	0.0085
0.9767	58.60	45.22	0.020	0.0085
1.0600	63.60	45.22	0.020	0.0085
1.1434	68.60	45.22	0.020	0.0085
1.2267	73.60	45.23	0.010	0.0043
1.3067	78.40	45.24	0.000	0.0000
1.3933	83.60	45.24	0.000	0.0000
1.4767	88.60	45.24	0.000	0.0000

SLUG TEST DATA - WELL MW-10

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h ₀)
0.0000	0.00	43.93	1.440	1.0000
0.0033	0.20	44.10	1.270	0.8819
0.0200	1.20	44.42	0.950	0.6597
0.0533	3.20	44.40	0.970	0.6736
0.0700	4.20	44.66	0.710	0.4931
0.0866	5.20	44.84	0.530	0.3681
0.1033	6.20	44.97	0.400	0.2778
0.1200	7.20	45.07	0.300	0.2083
0.1366	8.20	45.14	0.230	0.1597
0.1533	9.20	45.20	0.170	0.1181
0.1700	10.20	45.23	0.140	0.0972
0.1866	11.20	45.29	0.080	0.0556
0.2033	12.20	45.30	0.070	0.0486
0.2200	13.20	45.32	0.050	0.0347
0.2366	14.20	45.34	0.030	0.0208
0.2533	15.20	45.34	0.030	0.0208
0.2700	16.20	45.35	0.020	0.0139
0.2866	17.20	45.35	0.020	0.0139
0.3033	18.20	45.37	0.000	0.0000

SLUG TEST DATA - WELL MW-11

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h ₀)
0.0000	0.00	42.24	1.790	1.0000
0.0083	0.50	42.50	1.530	0.8547
0.0166	1.00	42.92	1.110	0.6201
0.0250	1.50	43.10	0.930	0.5196
0.0333	2.00	43.26	0.770	0.4302
0.0416	2.50	43.39	0.640	0.3575
0.0500	3.00	43.49	0.540	0.3017
0.0583	3.50	43.56	0.470	0.2626
0.0666	4.00	43.63	0.400	0.2235
0.0750	4.50	43.68	0.350	0.1955
0.0833	5.00	43.72	0.310	0.1732
0.0916	5.50	43.76	0.270	0.1508
0.1000	6.00	43.78	0.250	0.1397
0.1083	6.50	43.80	0.230	0.1285
0.1166	7.00	43.82	0.210	0.1173
0.1250	7.50	43.83	0.200	0.1117
0.1333	8.00	43.85	0.180	0.1006
0.1416	8.50	43.86	0.170	0.0950
0.1500	9.00	43.87	0.160	0.0894
0.1583	9.50	43.88	0.150	0.0838
0.1666	10.00	43.88	0.150	0.0838
0.1750	10.50	43.89	0.140	0.0782
0.1833	11.00	43.89	0.140	0.0782
0.1916	11.50	43.90	0.130	0.0726
0.2000	12.00	43.91	0.120	0.0670
0.2083	12.50	43.91	0.120	0.0670
0.2166	13.00	43.91	0.120	0.0670
0.2250	13.50	43.92	0.110	0.0615
0.2333	14.00	43.92	0.110	0.0615
0.2416	14.50	43.93	0.100	0.0559
0.2500	15.00	43.93	0.100	0.0559
0.2583	15.50	43.93	0.100	0.0559
0.2666	16.00	43.93	0.100	0.0559
0.2750	16.50	43.93	0.100	0.0559
0.2833	17.00	43.94	0.090	0.0503
0.2916	17.50	43.95	0.080	0.0447
0.3000	18.00	43.95	0.080	0.0447
0.3083	18.50	43.95	0.080	0.0447
0.3250	19.50	43.95	0.080	0.0447
0.3416	20.50	43.95	0.080	0.0447
0.3583	21.50	43.96	0.070	0.0391
0.3750	22.50	43.96	0.070	0.0391
0.3916	23.50	43.96	0.070	0.0391
0.4083	24.50	43.97	0.060	0.0335
0.4250	25.50	43.96	0.070	0.0391
0.4416	26.50	43.98	0.050	0.0279

SLUG TEST DATA - WELL MW-11
(continued)

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h ₀)
0.4583	27.50	43.98	0.050	0.0279
0.4750	28.50	43.97	0.060	0.0335
0.4916	29.50	43.98	0.050	0.0279
0.5083	30.50	43.98	0.050	0.0279
0.5250	31.50	43.98	0.050	0.0279
0.5416	32.50	43.99	0.040	0.0223
0.5583	33.50	43.99	0.040	0.0223
0.5750	34.50	43.99	0.040	0.0223
0.5916	35.50	43.99	0.040	0.0223
0.6083	36.50	44.00	0.030	0.0168
0.6250	37.50	44.00	0.030	0.0168
0.6416	38.50	44.00	0.030	0.0168
0.6583	39.50	44.00	0.030	0.0168
0.6750	40.50	44.00	0.030	0.0168
0.6916	41.50	44.00	0.030	0.0168
0.7080	42.48	44.00	0.030	0.0168
0.7250	43.50	44.00	0.030	0.0168
0.7416	44.50	44.01	0.020	0.0112
0.7583	45.50	44.01	0.020	0.0112
0.7750	46.50	44.01	0.020	0.0112
0.7916	47.50	44.01	0.020	0.0112
0.8083	48.50	44.01	0.020	0.0112
0.8250	49.50	44.01	0.020	0.0112
0.8416	50.50	44.01	0.020	0.0112
0.8583	51.50	44.01	0.020	0.0112
0.8750	52.50	44.01	0.020	0.0112
0.8916	53.50	44.02	0.010	0.0056
0.9083	54.50	44.02	0.010	0.0056
0.9250	55.50	44.02	0.010	0.0056
0.9416	56.50	44.02	0.010	0.0056
0.9583	57.50	44.02	0.010	0.0056
0.9750	58.50	44.02	0.010	0.0056
1.1750	70.50	44.02	0.010	0.0056
1.3750	82.50	44.02	0.010	0.0056
1.5750	94.50	44.02	0.010	0.0056
1.7750	106.5	44.02	0.010	0.0056
1.9750	118.5	44.03	0.000	0.0000

SLUG TEST DATA - WELL MW-12

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h ₀)
0.0000	0.00	47.50	3.150	1.0000
0.0083	0.50	47.49	3.140	0.9968
0.0166	1.00	47.48	3.130	0.9936
0.0250	1.50	47.43	3.080	0.9778
0.0333	2.00	47.33	2.980	0.9460
0.0416	2.50	47.23	2.880	0.9143
0.0500	3.00	47.14	2.790	0.8857
0.0583	3.50	47.05	2.700	0.8571
0.0666	4.00	46.97	2.620	0.8317
0.0750	4.50	46.89	2.540	0.8063
0.0833	5.00	46.81	2.460	0.7810
0.0916	5.50	46.74	2.390	0.7587
0.1000	6.00	46.67	2.320	0.7365
0.1083	6.50	46.61	2.260	0.7175
0.1166	7.00	46.54	2.190	0.6952
0.1250	7.50	46.48	2.130	0.6762
0.1333	8.00	46.42	2.070	0.6571
0.1416	8.50	46.36	2.010	0.6381
0.1500	9.00	46.30	1.950	0.6190
0.1583	9.50	46.25	1.900	0.6032
0.1666	10.00	46.20	1.850	0.5873
0.1750	10.50	46.25	1.900	0.6032
0.1833	11.00	46.11	1.760	0.5587
0.1916	11.50	46.06	1.710	0.5429
0.2000	12.00	46.01	1.660	0.5270
0.2083	12.50	45.97	1.620	0.5143
0.2166	13.00	45.93	1.580	0.5016
0.2250	13.50	45.89	1.540	0.4889
0.2333	14.00	45.85	1.500	0.4762
0.2416	14.50	45.81	1.460	0.4635
0.2500	15.00	45.78	1.430	0.4540
0.2583	15.50	45.74	1.390	0.4413
0.2666	16.00	45.71	1.360	0.4317
0.2750	16.50	45.68	1.330	0.4222
0.2833	17.00	45.65	1.300	0.4127
0.2916	17.50	45.62	1.270	0.4032
0.3000	18.00	45.59	1.240	0.3936
0.3083	18.50	45.56	1.210	0.3841
0.3166	19.00	45.53	1.180	0.3746
0.3250	19.50	45.50	1.150	0.3651
0.3333	20.00	45.48	1.130	0.3587
0.3500	21.00	45.43	1.080	0.3429
0.3666	22.00	45.38	1.030	0.3270
0.3833	23.00	45.34	0.990	0.3143
0.4000	24.00	45.30	0.950	0.3016
0.4166	25.00	45.26	0.910	0.2889

SLUG TEST DATA - WELL MW-12

(continued)

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h ₀)
0.4333	26.00	45.22	0.870	0.2762
0.4500	27.00	45.19	0.840	0.2667
0.4666	28.00	45.16	0.810	0.2571
0.4833	29.00	45.13	0.780	0.2476
0.5000	30.00	45.10	0.750	0.2381
0.5166	31.00	45.07	0.720	0.2286
0.5333	32.00	45.05	0.700	0.2222
0.5500	33.00	45.02	0.670	0.2127
0.5666	34.00	45.00	0.650	0.2063
0.5833	35.00	44.98	0.630	0.2000
0.6000	36.00	44.95	0.600	0.1905
0.6166	37.00	44.93	0.580	0.1841
0.6333	38.00	44.91	0.560	0.1778
0.6500	39.00	44.89	0.540	0.1714
0.6666	40.00	44.88	0.530	0.1683
0.6833	41.00	44.86	0.510	0.1619
0.7000	42.00	44.84	0.490	0.1556
0.7166	43.00	44.83	0.480	0.1524
0.7333	44.00	44.82	0.470	0.1492
0.7500	45.00	44.80	0.450	0.1429
0.7666	46.00	44.79	0.440	0.1397
0.7833	47.00	44.78	0.430	0.1365
0.8000	48.00	44.77	0.420	0.1333
0.8166	49.00	44.75	0.400	0.1270
0.8333	50.00	44.74	0.390	0.1238
0.8500	51.00	44.73	0.380	0.1206
0.8666	52.00	44.72	0.370	0.1175
0.8833	53.00	44.71	0.360	0.1143
0.9000	54.00	44.70	0.350	0.1111
0.9166	55.00	44.70	0.350	0.1111
0.9333	56.00	44.69	0.340	0.1079
0.9500	57.00	44.68	0.330	0.1048
0.9666	58.00	44.67	0.320	0.1016
0.9833	59.00	44.67	0.320	0.1016
1.0000	60.00	44.66	0.310	0.0984
1.2000	72.00	44.58	0.230	0.0730
1.4000	84.00	44.54	0.190	0.0603
1.6000	96.00	44.51	0.160	0.0508
1.8000	108.00	44.48	0.130	0.0413
2.0000	120.00	44.46	0.110	0.0349
2.2000	132.00	44.45	0.100	0.0317
2.4000	144.00	44.44	0.090	0.0286
2.6000	156.00	44.42	0.070	0.0222
2.8000	168.00	44.42	0.070	0.0222
3.0000	180.00	44.41	0.060	0.0190

SLUG TEST DATA - WELL MW-12

(continued)

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h ₀)
3.2000	192.00	44.40	0.050	0.0159
3.4000	204.00	44.40	0.050	0.0159
3.6000	216.00	44.40	0.050	0.0159
3.8000	228.00	44.39	0.040	0.0127
4.0000	240.00	44.39	0.040	0.0127
4.2000	252.00	44.39	0.040	0.0127
4.4000	264.00	44.39	0.040	0.0127
4.6000	276.00	44.38	0.030	0.0095
4.8000	288.00	44.38	0.030	0.0095
5.0000	300.00	44.38	0.030	0.0095
5.2000	312.00	44.37	0.020	0.0064
5.4000	324.00	44.37	0.020	0.0064
5.6000	336.00	44.37	0.020	0.0064
5.8000	348.00	44.37	0.020	0.0064
6.0000	360.00	44.37	0.020	0.0064
6.2000	372.00	44.37	0.020	0.0064
6.4000	384.00	44.37	0.020	0.0064
6.6000	396.00	44.36	0.010	0.0032
6.8000	408.00	44.36	0.010	0.0032
7.0000	420.00	44.36	0.010	0.0032
7.2000	432.00	44.36	0.010	0.0032
7.4000	444.00	44.36	0.010	0.0032
7.6000	456.00	44.36	0.010	0.0032
7.8000	468.00	44.36	0.010	0.0032
8.0000	480.00	44.35	0.000	0.0000

SLUG TEST DATA - WELL MW-13

Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h ₀)
0.0000	0.00	46.51	2.070	1.0000
0.0083	0.50	46.51	2.070	1.0000
0.0166	1.00	46.45	2.010	0.9710
0.0250	1.50	46.40	1.960	0.9469
0.0333	2.00	46.35	1.910	0.9227
0.0416	2.50	46.30	1.860	0.8986
0.0500	3.00	46.26	1.820	0.8792
0.0583	3.50	46.22	1.780	0.8599
0.0666	4.00	46.18	1.740	0.8406
0.0750	4.50	46.14	1.700	0.8213
0.0833	5.00	46.10	1.660	0.8019
0.0916	5.50	46.06	1.620	0.7826
0.1000	6.00	46.02	1.580	0.7633
0.1083	6.50	45.99	1.550	0.7488
0.1166	7.00	45.96	1.520	0.7343
0.1250	7.50	45.93	1.490	0.7198
0.1333	8.00	45.90	1.460	0.7053
0.1416	8.50	45.86	1.420	0.6860
0.1500	9.00	45.84	1.400	0.6763
0.1583	9.50	45.81	1.370	0.6618
0.1666	10.00	45.78	1.340	0.6473
0.1750	10.50	45.76	1.320	0.6377
0.1833	11.00	45.72	1.280	0.6184
0.1916	11.50	45.70	1.260	0.6087
0.2000	12.00	45.68	1.240	0.5990
0.2083	12.50	45.66	1.220	0.5894
0.2166	13.00	45.63	1.190	0.5749
0.2250	13.50	45.61	1.170	0.5652
0.2333	14.00	45.59	1.150	0.5556
0.2416	14.50	45.57	1.130	0.5459
0.2500	15.00	45.54	1.100	0.5314
0.2583	15.50	45.52	1.080	0.5217
0.2666	16.00	45.50	1.060	0.5121
0.2750	16.50	45.48	1.040	0.5024
0.2833	17.00	45.46	1.020	0.4928
0.2916	17.50	45.45	1.010	0.4879
0.3000	18.00	45.43	0.990	0.4783
0.3083	18.50	45.41	0.970	0.4686
0.3166	19.00	45.39	0.950	0.4589
0.3250	19.50	45.38	0.940	0.4541
0.3333	20.00	45.36	0.920	0.4444
0.3500	21.00	45.33	0.890	0.4300
0.3666	22.00	45.30	0.860	0.4155
0.3833	23.00	45.27	0.830	0.4010
0.4000	24.00	45.24	0.800	0.3865
0.4166	25.00	45.22	0.780	0.3768

SLUG TEST DATA - WELL MW-13

(continued)

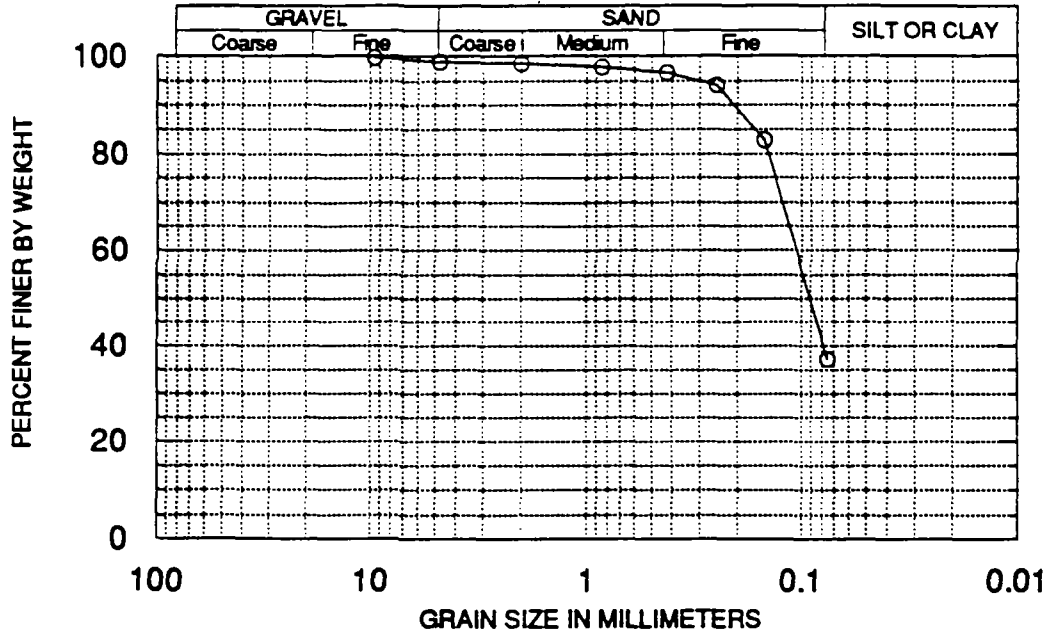
Time (min)	Time (sec)	Elevation (feet)	Change (h)	Head Ratio (h/h ₀)
0.4333	26.00	45.19	0.750	0.3623
0.4500	27.00	45.17	0.730	0.3527
0.4666	28.00	45.15	0.710	0.3430
0.4833	29.00	45.13	0.690	0.3333
0.5000	30.00	45.10	0.660	0.3188
0.5166	31.00	45.08	0.640	0.3092
0.5333	32.00	45.06	0.620	0.2995
0.5500	33.00	45.05	0.610	0.2947
0.5666	34.00	45.03	0.590	0.2850
0.5833	35.00	45.01	0.570	0.2754
0.6000	36.00	44.99	0.550	0.2657
0.6166	37.00	44.98	0.540	0.2609
0.6333	38.00	44.96	0.520	0.2512
0.6500	39.00	44.95	0.510	0.2464
0.6666	40.00	44.94	0.500	0.2415
0.6833	41.00	44.93	0.490	0.2367
0.7000	42.00	44.91	0.470	0.2271
0.7166	43.00	44.90	0.460	0.2222
0.7333	44.00	44.89	0.450	0.2174
0.7500	45.00	44.87	0.430	0.2077
0.7666	46.00	44.86	0.420	0.2029
0.7833	47.00	44.86	0.420	0.2029
0.8000	48.00	44.84	0.400	0.1932
0.8166	49.00	44.83	0.390	0.1884
0.8333	50.00	44.82	0.380	0.1836
0.8500	51.00	44.82	0.380	0.1836
0.8666	52.00	44.80	0.360	0.1739
0.8833	53.00	44.80	0.360	0.1739
0.9000	54.00	44.79	0.350	0.1691
0.9166	55.00	44.78	0.340	0.1643
0.9333	56.00	44.77	0.330	0.1594
0.9500	57.00	44.76	0.320	0.1546
0.9666	58.00	44.75	0.310	0.1498
0.9833	59.00	44.75	0.310	0.1498
1.0000	60.00	44.74	0.300	0.1449
1.2000	72.00	44.67	0.230	0.1111
1.4000	84.00	44.62	0.180	0.0870
1.6000	96.00	44.58	0.140	0.0676
1.8000	108.00	44.56	0.120	0.0580
2.0000	120.00	44.54	0.100	0.0483
2.2000	132.00	44.52	0.080	0.0386
2.4000	144.00	44.51	0.070	0.0338
2.6000	156.00	44.49	0.050	0.0242
2.8000	168.00	44.49	0.050	0.0242
3.0000	180.00	44.48	0.040	0.0193

SLUG TEST DATA - WELL MW-13
(continued)

<u>Time</u> <u>(min)</u>	<u>Time</u> <u>(sec)</u>	<u>Elevation</u> <u>(feet)</u>	<u>Change</u> <u>(h)</u>	<u>Head Ratio</u> <u>(h/h_o)</u>
3.2000	192.00	44.47	0.030	0.0145
3.4000	204.00	44.47	0.030	0.0145
3.6000	216.00	44.46	0.020	0.0097
3.8000	228.00	44.46	0.020	0.0097
4.0000	240.00	44.46	0.020	0.0097
4.2000	252.00	44.46	0.020	0.0097
4.4000	264.00	44.46	0.020	0.0097
4.6000	276.00	44.46	0.020	0.0097
4.8000	288.00	44.45	0.010	0.0048
5.0000	300.00	44.45	0.010	0.0048
5.2000	312.00	44.45	0.010	0.0048
5.4000	324.00	44.45	0.010	0.0048
5.6000	336.00	44.45	0.010	0.0048
5.8000	348.00	44.44	0.000	0.0000



Boring MW-3D



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-6	39' - 41'	Fine sand with trace gravel.

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

Clean Harbors

Environmental Services, Inc.
Remedial Technologies Division

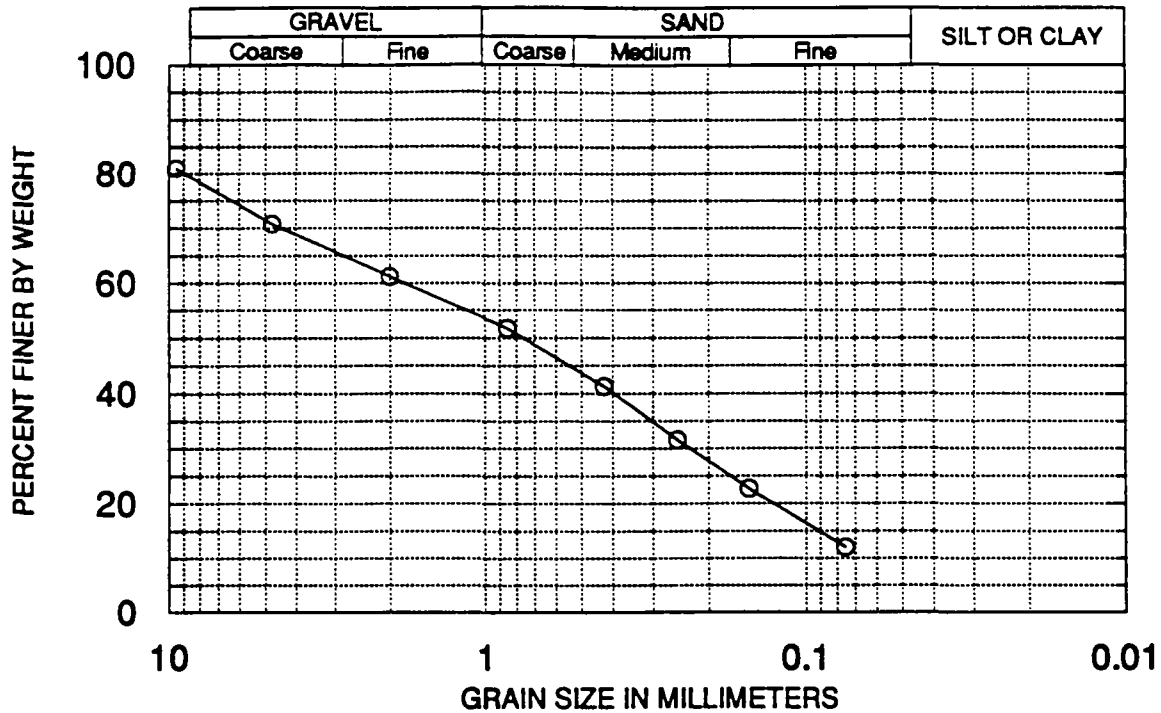
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

GRAIN SIZE DISTRIBUTION
MW-3D LOWER AQUIFER

PROJECT NO. EN - 170	DWG. NO.
SCALE: NA	

Boring MW-7



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-2	2.5' - 4.5'	Fine sand and silt with some rock fragments.
SS-3	4.5' - 6.5'	Fine sand and silt with some coarse sand and rock fragments.
SS-4	6.5' - 8.5'	Fine sand and silt with some coarse sand and rock fragments.
SS-5	8.5' - 10.5'	Fine to coarse sand with some silt.
SS-6	10.5' - 12.5'	Very coarse sand.

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors

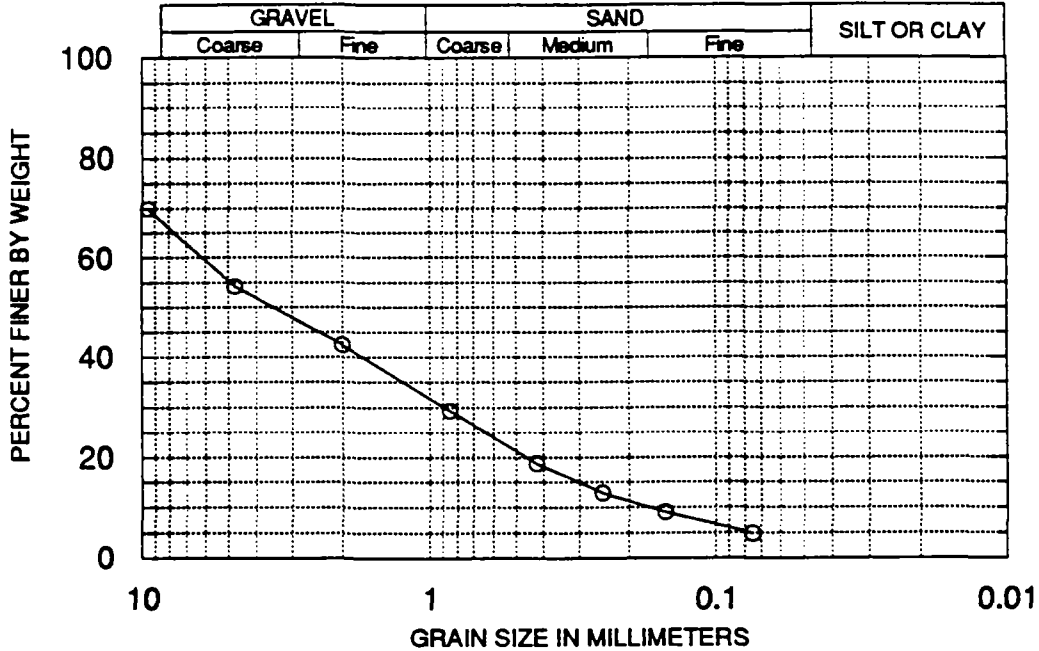
Environmental Services, Inc.
Remedial Technologies Division

12 MERCER ROAD
 NATICK, MASSACHUSETTS 01760
 (508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
 252 SALEM STREET
 WOBURN, MASSACHUSETTS
GRAIN SIZE DISTRIBUTION
MW-7 UPPER AQUIFER

PROJECT NO. EN - 170	DWG. NO.
SCALE: NA	

Boring MW-8



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-3	4' - 6'	Medium to fine sand and gravel with trace coarse sand.
SS-4	6' - 8'	Medium to fine sand, some gravel with trace coarse sand.
SS-5	8' - 10'	Medium to coarse sand with trace fine sand and gravel.
SS-6	10' - 12'	Medium to coarse sand with some gravel and trace fine sand.

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors

Environmental Services, Inc.
Remedial Technologies Division

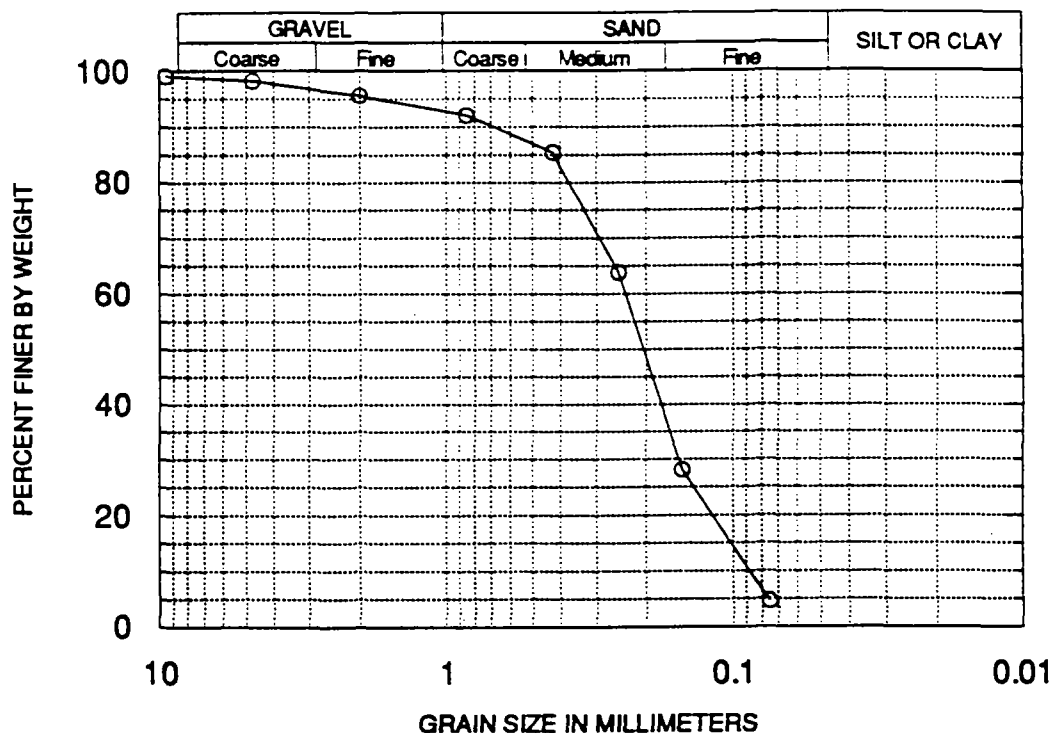
12 MERCER ROAD
 NATICK, MASSACHUSETTS 01760
 (508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
 252 SALEM STREET
 WOBURN, MASSACHUSETTS

**GRAIN SIZE DISTRIBUTION
 MW-8 UPPER AQUIFER**

PROJECT NO. EN - 170	DWG. NO.
SCALE: NA	

Boring MW-9



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-3	4' - 6'	Medium to coarse sand with some gravel and rock fragments.
SS-5	8' - 10'	Medium to fine sand.
SS-6	10' - 12'	Medium to fine sand.

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE



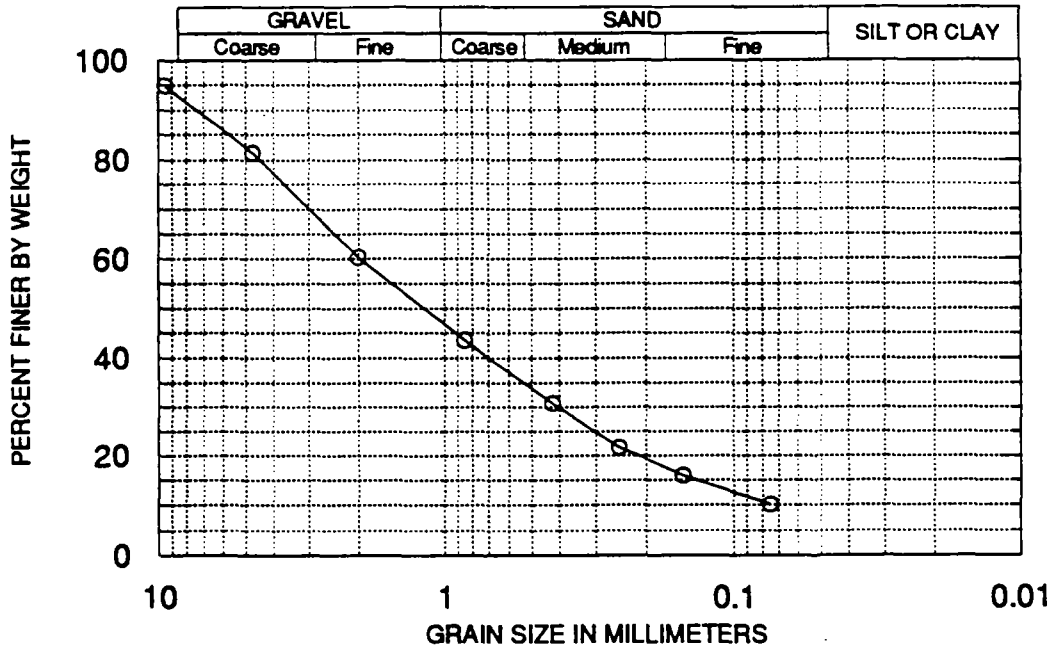
Environmental Services, Inc.
Remedial Technologies Division

12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS
**GRAIN SIZE DISTRIBUTION
MW-9 UPPER AQUIFER**

PROJECT NO. EN - 170	DWG. NO.
SCALE: NA	

Boring MW-10



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-6	39' - 41'	Medium to coarse sand with some gravel.

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors

Environmental Services, Inc.
Remedial Technologies Division

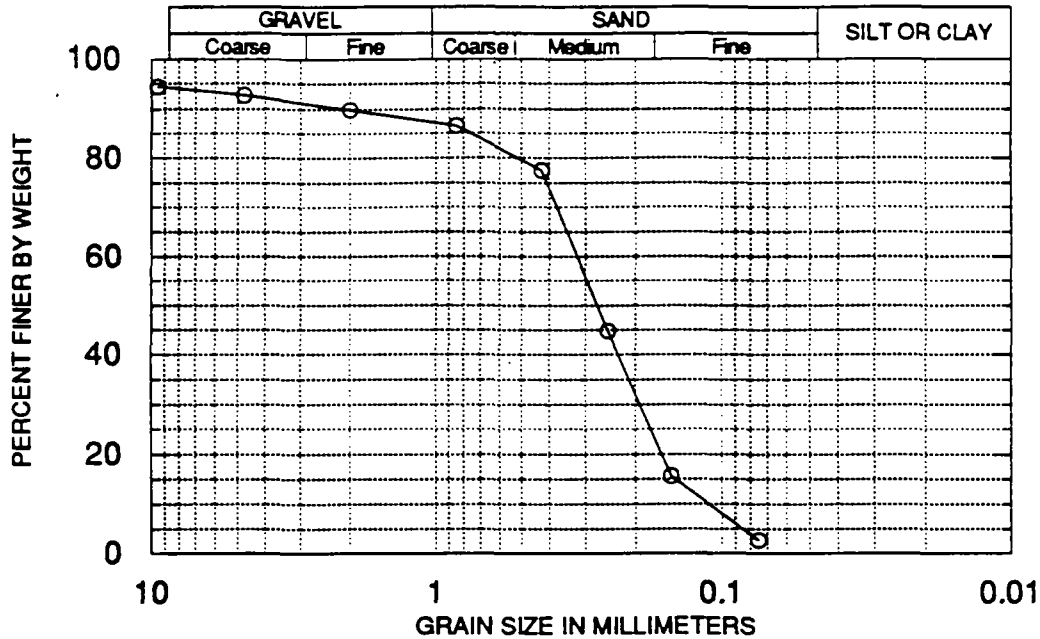
12 MERCER ROAD
NATICK, MASSACHUSETTS 01760
(508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
252 SALEM STREET
WOBURN, MASSACHUSETTS

GRAIN SIZE DISTRIBUTION
MW-10 LOWER AQUIFER

PROJECT NO. EN - 170	DWG. NO.
SCALE: NA	

Boring MW-11



COMPOSITE SAMPLES	DEPTH	VISUAL DESCRIPTION
SS-3	4' - 6'	Medium to fine sand with some gravel.
SS-5	8' - 10'	Medium to fine sand.
SS-6	10' - 12'	Medium to fine sand with trace coarse sand and gravel.

A	PRELIMINARY				
ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE

CleanHarbors
 Environmental Services, Inc.
 Remedial Technologies Division
 12 MERCER ROAD
 NATICK, MASSACHUSETTS 01760
 (508) 650-6910

MURPHY'S WASTE OIL SERVICE, INC.
 252 SALEM STREET
 WOBURN, MASSACHUSETTS
**GRAIN SIZE DISTRIBUTION
 MW-11 UPPER AQUIFER**

PROJECT NO. EN - 170	DWG. NO.
SCALE: NA	



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D, SS-6
Sample Type: Soil

CHES Lab #: 9510112-01M
Date Received: 10/06/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/19/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	0.2
4	4.75	0.8
10	2.00	0.4
20	0.850	0.6
40	0.425	1.2
60	0.250	2.7
100	0.150	11.2
200	0.075	45.6
Bottom Tray	<0.075	37.2



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMP.OF B-3, SS-2,3,4,5,6 (MW-7)
Sample Type: Soil

CHES Lab #: 9510032-07L
Date Received: 10/03/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/18/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	18.5
4	4.75	10.3
10	2.00	9.6
20	0.850	9.4
40	0.425	10.5
60	0.250	9.7
100	0.150	8.8
200	0.075	10.8
Bottom Tray	<0.075	11.9



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMPOSITE OF MW-8
Sample Type: Soil

CHES Lab #: 9510403-07L
Date Received: 10/27/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 11/09/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	30.0
4	4.75	15.7
10	2.00	11.7
20	0.850	13.2
40	0.425	10.5
60	0.250	5.9
100	0.150	3.8
200	0.075	4.2
Bottom Tray	<0.075	4.9



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMPOSITE MW-9,SS-3,5,6
Sample Type: Soil

CHES Lab #: 9510080-06L
Date Received: 10/05/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/18/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	0.6
4	4.75	0.8
10	2.00	2.7
20	0.850	3.6
40	0.425	6.6
60	0.250	21.5
100	0.150	35.8
200	0.075	23.5
Bottom Tray	<0.075	4.6



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10, SS-6
Sample Type: Soil

CHES Lab #: 9510133-06L
Date Received: 10/10/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/20/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	5.1
4	4.75	13.5
10	2.00	21.1
20	0.850	16.7
40	0.425	12.8
60	0.250	9.1
100	0.150	5.7
200	0.075	5.9
Bottom Tray	<0.075	10.1



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: COMP.OF MW-11,SS-3,SS-5,SS-6
Sample Type: Soil

CHES Lab #: 9510031-08L
Date Received: 10/03/95

SIEVE ANALYSIS

by ASTM Method Mod. D422

Analysis Date: 10/16/95

SIEVE NUMBER	OPENING SIZE in MM	WEIGHT %
--	9.5	5.4
4	4.75	1.8
10	2.00	2.9
20	0.850	3.3
40	0.425	9.0
60	0.250	32.7
100	0.150	29.2
200	0.075	12.9
Bottom Tray	<0.075	2.7





REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S
P.O. #: EN170

Date Received: 11/08/95
CHES Lab #: 9511101

Attn: Mr. Jay McCreary

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael Murray 12/5/95

Michael J. Murray
Laboratory Manager



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MR-1SS
 Sample Type: Water

CHES Lab #: 9511101-01AB
 Date Received: 11/08/95

Volatile Organics - System E
 by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 113 %
 Toluene-d8: 103 %
 p-BFB: 89 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-01G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 61 %
2-Fluorobiphenyl: 62 %
Terphenyl-d14: 62 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-01G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 43 %
Phenol-d5: 33 %
2,4,6-Tribromophenol: 130 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-010
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 76.2%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-01E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9511101-01M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.0	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-02AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	31	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Jibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	14
trans-1,2-Dichloroethene	5	140	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 114 %
Toluene-d8: 102 %
p-BFB: 87 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-02G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 111 %
2-Fluorobiphenyl: 90 %
Terphenyl-d14: 93 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-02G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 74 %
Phenol-d5: 55 %
2,4,6-Tribromophenol: 176 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-020
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 58.2%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-02E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	0.006	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9511101-02M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-03AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	25	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 107 %
Toluene-d8: 98 %
p-BFB: 83 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-03G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 61 %
2-Fluorobiphenyl: 54 %
Terphenyl-d14: 51 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-03G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 45 %
Phenol-d5: 32 %
2,4,6-Tribromophenol: 103 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-030
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 62.3%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-03E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9511101-03M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.2	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-04AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	24	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 110 %
Toluene-d8: 100 %
p-BFB: 86 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-04G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 59 %
2-Fluorobiphenyl: 56 %
Terphenyl-d14: 56 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-04G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 41 %
Phenol-d5: 30 %
2,4,6-Tribromophenol: 104 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-040
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 67.7%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-04E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9511101-04M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-3
 Sample Type: Water

CHES Lab #: 9511101-05AB
 Date Received: 11/08/95

Volatile Organics - System E
 by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	500	ND	1,2-Dichloropropane	130	ND
Benzene	130	ND	cis-1,3-Dichloropropene	130	ND
Bromodichloromethane	130	ND	trans-1,3-Dichloropropene	130	ND
Bromoform	130	ND	Ethylbenzene	130	ND
Bromomethane	250	ND	2-Hexanone	130	ND
2-Butanone	500	ND	Methylene chloride	500	ND
Carbon disulfide	250	ND	4-Methyl-2-pentanone	130	ND
Carbon tetrachloride	130	ND	Methyl-t-butylether (MTBE)	250	ND
Chlorobenzene	130	ND	Styrene	130	ND
Chloroethane	250	ND	1,1,2,2-Tetrachloroethane	130	ND
2-Chloroethyl vinyl ether	250	ND	Tetrachloroethene	130	ND
Chloroform	130	ND	Toluene	130	ND
Chloromethane	250	ND	1,1,1-Trichloroethane	130	160
Dibromochloromethane	130	ND	1,1,2-Trichloroethane	130	ND
Dibromoethane (EDB)	130	ND	Trichloroethene	130	140
1,1-Dichloroethane	130	ND	Trichlorofluoromethane	130	ND
1,2-Dichloroethane	130	ND	Vinyl acetate	250	ND
1,1-Dichloroethene	130	ND	Vinyl chloride	250	ND
trans-1,2-Dichloroethene	130	2,200	Total xylenes	130	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 113 %
 Toluene-d8: 106 %
 p-BFB: 86 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-05G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 40 %
2-Fluorobiphenyl: 42 %
Terphenyl-d14: 44 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-05G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 32 %
Phenol-d5: 27 %
2,4,6-Tribromophenol: 116 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-050
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 40.3%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-05E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9511101-05M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.5	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-3D
 Sample Type: Water

CHES Lab #: 9511101-06AB
 Date Received: 11/08/95

Volatile Organics - System E
 by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	25	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 112 %
 Toluene-d8: 106 %
 p-BFB: 88 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 64 %
2-Fluorobiphenyl: 58 %
Terphenyl-d14: 58 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 46 %
Phenol-d5: 33 %
2,4,6-Tribromophenol: 103 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-060
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 78.2%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/22/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9511101-06M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-4
 Sample Type: Water

CHES Lab #: 9511101-07AB
 Date Received: 11/08/95

Volatile Organics - System E
 by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 103 %
 Toluene-d8: 102 %
 p-BFB: 83 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-4
 Sample Type: Water

CHES Lab #: 9511101-07G
 Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
 by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
 Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
o-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 42 %
 2-Fluorobiphenyl: 42 %
 Terphenyl-d14: 55 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9511101-07G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 31 %
Phenol-d5: 23 %
2,4,6-Tribromophenol: 76 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9511101-070
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 55.4%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9511101-07E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9511101-07M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-5S
 Sample Type: Water

CHES Lab #: 9511101-08AB
 Date Received: 11/08/95

Volatile Organics - System E
 by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 120 %
 Toluene-d8: 107 %
 p-BFB: 88 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-08G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 55 %
2-Fluorobiphenyl: 53 %
Terphenyl-d14: 61 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-08G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 41 %
Phenol-d5: 30 %
2,4,6-Tribromophenol: 108 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-080
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 80.9%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-08E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9511101-08M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.2	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-09AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	36	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 115 %
Toluene-d8: 112 %
p-BFB: 90 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-09G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95

Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 41 %
2-Fluorobiphenyl: 43 %
Terphenyl-d14: 47 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-09G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 33 %
Phenol-d5: 29 %
2,4,6-Tribromophenol: 108 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-090
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 45.1%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-09E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9511101-09M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	7.3	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-10AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	32	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 120 %
Toluene-d8: 113 %
p-BFB: 91 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-10G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95

Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 50 %
2-Fluorobiphenyl: 50 %
Terphenyl-d14: 61 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-10G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 36 %
Phenol-d5: 26 %
2,4,6-Tribromophenol: 90 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-100
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 71.8%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-10E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9511101-10M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	29	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 109 %
Toluene-d8: 100 %
p-BFB: 85 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-8
 Sample Type: Water

CHES Lab #: 9511101-11G
 Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
 by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
 Analysis Date: 11/17/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 47 %
 2-Fluorobiphenyl: 46 %
 Terphenyl-d14: 58 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/17/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 34 %
Phenol-d5: 27 %
2,4,6-Tribromophenol: 110 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-110
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 57.8%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9511101-11M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.4	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	28	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	15
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	48
1,1-Dichloroethane	5	9	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	5	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 109 %
Toluene-d8: 101 %
p-BFB: 88 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-9
 Sample Type: Water

CHES Lab #: 9511101-12G
 Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
 by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
 Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 47 %
 2-Fluorobiphenyl: 54 %
 Terphenyl-d14: 49 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 36 %
Phenol-d5: 28 %
2,4,6-Tribromophenol: 86 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-120
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 48.8%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9511101-12M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.7	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-10
 Sample Type: Water

CHES Lab #: 9511101-13AB
 Date Received: 11/08/95

Volatile Organics - System E
 by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	24	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 110 %
 Toluene-d8: 97 %
 p-BFB: 83 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 48 %
2-Fluorobiphenyl: 46 %
Terphenyl-d14: 47 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 33 %
Phenol-d5: 25 %
2,4,6-Tribromophenol: 73 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-130
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 81.0%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9511101-13M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-11
 Sample Type: Water

CHES Lab #: 9511101-14AB
 Date Received: 11/08/95

Volatile Organics - System E
 by EPA Method 624 (ref. f)

Analysis Date: 11/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	16
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	13	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 117 %
 Toluene-d8: 106 %
 p-BFB: 96 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 45 %
2-Fluorobiphenyl: 54 %
Terphenyl-d14: 60 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 31 %
Phenol-d5: 29 %
2,4,6-Tribromophenol: 88 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-140
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 53.7%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9511101-14M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	10	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	96	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 120 %
Toluene-d8: 109 %
p-BFB: 92 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 37 %
2-Fluorobiphenyl: 37 %
Terphenyl-d14: 58 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 25 %
Phenol-d5: 21 %
2,4,6-Tribromophenol: 106 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-150
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/18/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 79.1%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	0.004	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	1.4	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9511101-15M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.5	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 116 %
Toluene-d8: 106 %
p-BFB: 83 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16G
Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	47	ND	Dimethylphthalate	47	ND
Acenaphthylene	47	ND	Di-n-butylphthalate	47	ND
Anthracene	47	ND	2,4-Dinitrotoluene	47	ND
Benzo(a)anthracene	47	ND	2,6-Dinitrotoluene	47	ND
Benzo(a)pyrene	47	ND	Di-n-octylphthalate	47	ND
Benzo(b)fluoranthene	47	ND	Fluoranthene	47	ND
Benzo(g,h,i)perylene	47	ND	Fluorene	47	ND
Benzo(k)fluoranthene	47	ND	Hexachlorobenzene	47	ND
Bis(2-chloroethoxy)methane	47	ND	Hexachlorobutadiene	47	ND
Bis(2-chloroethyl)ether	47	ND	Hexachlorocyclopentadiene	47	ND
Bis(2-chloroisopropyl)ether	47	ND	Hexachloroethane	47	ND
Bis(2-ethylhexyl)phthalate	94	ND	Indeno(1,2,3-cd)pyrene	47	ND
4-Bromophenyl phenyl ether	47	ND	Isophorone	47	ND
Butylbenzylphthalate	47	ND	2-Methylnaphthalene	47	ND
4-Chloroaniline	47	ND	Naphthalene	47	ND
2-Chloronaphthalene	47	ND	2-Nitroaniline	240	ND
4-Chlorophenyl phenyl ether	47	ND	3-Nitroaniline	240	ND
Chrysene	47	ND	4-Nitroaniline	240	ND
Dibenzo(a,h)anthracene	47	ND	Nitrobenzene	47	ND
Dibenzofuran	47	ND	N-Nitroso-di-n-propylamine	47	ND
1,2-Dichlorobenzene	47	ND	N-Nitrosodiphenylamine	47	ND
1,3-Dichlorobenzene	47	ND	Phenanthrene	47	ND
1,4-Dichlorobenzene	47	ND	Pyrene	47	ND
3,3'-Dichlorobenzidine	94	ND	1,2,4-Trichlorobenzene	47	ND
Diethylphthalate	47	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 45 %
2-Fluorobiphenyl: 60 %
Terphenyl-d14: 65 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/20/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	47	ND
2-Chlorophenol	47	ND
2,4-Dichlorophenol	47	ND
2,4-Dimethylphenol	47	ND
4,6-Dinitro-2-methylphenol	240	ND
2,4-Dinitrophenol	240	ND
2-Methylphenol	47	ND
4-Methylphenol	47	ND
2-Nitrophenol	47	ND
4-Nitrophenol	240	ND
Pentachlorophenol	240	ND
Phenol	47	ND
2,4,5-Trichlorophenol	240	ND
2,4,6-Trichlorophenol	240	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 25 %
Phenol-d5: 35 %
2,4,6-Tribromophenol: 125 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-160
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	1.6	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 57.7%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	0.004	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	0.004	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	0.56	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9511101-16M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	16
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	14	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 120 %
Toluene-d8: 107 %
p-BFB: 88 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: BLIND DUPLICATE (MW-11)
 Sample Type: Water

CHES Lab #: 9511101-17G
 Date Received: 11/08/95

Semi-Volatile Base/Neutral Extractable Organics - System A
 by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
 Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 29 %
 2-Fluorobiphenyl: 49 %
 Terphenyl-d14: 58 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17G
Date Received: 11/08/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 17 %
Phenol-d5: 21 %
2,4,6-Tribromophenol: 96 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-170
Date Received: 11/08/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/17/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 64.2%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17E
Date Received: 11/08/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	0.003	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17H
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-11)
Sample Type: Water

CHES Lab #: 9511101-17M
Date Received: 11/08/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	---	11/08/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: TRIP BLANK
Sample Type: Water

CHES Lab #: 9511101-18AB
Date Received: 11/08/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 113 %
Toluene-d8: 107 %
p-BFB: 90 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9511101

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.



Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 114%
Toluene-d8: 97%
p-BFB: 87%

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/20/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 100%
Toluene-d8: 102%
p-BFB: 87%

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 101%
Toluene-d8: 106%
p-BFB: 90%

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/21/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 111%
Toluene-d8: 97%
p-BFB: 83%

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Semi-Volatile Base/Neutral Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95

Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 66 %
2-Fluorobiphenyl: 55 %
Terphenyl-d14: 61 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Semi-Volatile Acid Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/11/95
Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 51 %
Phenol-d5: 37 %
2,4,6-Tribromophenol: 96 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Semi-Volatile Base/Neutral Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95

Analysis Date: 11/18/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 55 %
2-Fluorobiphenyl: 51 %
Terphenyl-d14: 59 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Semi-Volatile Acid Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/13/95
Analysis Date: 11/18/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 49 %
Phenol-d5: 48 %
2,4,6-Tribromophenol: 94 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511101

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 608 (ref. f)

Extraction Date: 11/13/95

Analysis Date: 11/14/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 84.2%	34-104%



Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511101

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/08/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/08/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/08/95	11/09/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/08/95	11/09/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight



Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511101

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/13/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/10/95	335.1(a)
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight



JW 11/13

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184

CHAIN OF CUSTODY RECORD

Sample Custodian — (617) 849-1800

Page 1 of

Client: ENGINEERING Project Name: MURPHY'S Work Order/P.O. #: EN-170 Date: 11-8-95

Report To: J. McREARY Address: 12 MERGER RD NATICK Phone #: EXT 6399

Date Samples Collected: 11-7-95 by MICHAEL F. McKEON Date Samples Received: 11-8-95

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information				Analysis								# of con	CHAS Sample #	
	Date	Time	Station Location	Sample Matrix	VOC's	S VOC's HAP's	PCB's	PCP's	ARSENIC	CHROMIUM	AMMONIUM NITRATE	ZINC			
10 MR-1SS	11-7			H ₂ O									6	9511101	
11 MR-2SS													6	02AB,B,X,Q,M,O,E	
12 MW-1													6	03AB,B,X,Q,M,O,E	
16 MW-2													6	04AB,B,X,Q,M,O,E	
5 MW-3													6	05AB,B,X,Q,M,O,E	
2 MW-3A									X	X	X	X	7	06AB,B,X,Q,M,O,E,H	
14 MW-4													6	07AB,B,X,Q,M,O,E	
4 MW-5S													6	08AB,B,X,Q,M,O,E	
1 MW-5A													6	09AB,B,X,Q,M,O,E	
Relinquished by: <u>[Signature]</u> Date: <u>11-8-95</u> Time: <u>5:00 am</u>				VOA Vial	X									REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions) Filter metal samples Dissolved metals Gratic lead P/S/C/L	
Received by: <u>[Signature]</u> Date: <u>11/8/95</u> Time: <u>8:30 am</u>				Glass Bottle											
Relinquished by: _____ Date: _____ Time: _____				Plastic Bottle											
Received by: _____ Date: _____ Time: _____				Pres.	A										
Relinquished by: _____ Date: _____ Time: _____				Volume											
Received by: _____ Date: _____ Time: _____				Preservation Key: A — Acidified with <u>1:1 HCl</u> B — Filtered, C — Sample chilled, D — NaOH, E — NaThiosulfate, W — Sample Ambient, F — Other											

OFFICE COPY

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
Accelerated turnaround requested: _____
Confirmed by: _____ Surcharge: _____

Location of samples: R4, R10L3, Quentong, SM
Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other: _____



11/11/95

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 CHAIN OF CUSTODY RECORD Sample Custodian — (617) 849-1800 Page 2 of

Client: ENGINEERING Project Name: MURPHYS Work Order/P.O. #: EN170 Date: 11-8-95

Report To: J. McCrory Address: 12 MERCER RD NATICK Phone #: EXT 6399

Date Samples Collected: 11-7-95 by: MICHAEL F M'KEEN Date Samples Received: 11-8-95

Airbill/Bill of Lading? N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information				Analysis							# of con.	CHAS Sample #	
	Date	Time	Station Location	Sample Matrix	VOCS	S. VOCS HPLC	PCDS	LEAD	ARSENIC	CADMIUM	AMMONIUM NITRATE			ZINC
8 MW-6	11-7			H ₂ O	X	X	X	X					6	9511101
7 MW-8									X	X	X	X	7	10AB, B, X, Q, M, O, E NOTE: All samples must be analyzed
15 MW-9													7	FGR PH. 12AB, B, X, Q, M, O, E, H
3 MW-10													7	13AB, B, X, Q, M, O, E, H
13 MW-11													7	14AB, B, X, Q, M, O, E, H
6 MW-12													7	15AB, B, X, Q, M, O, E, H
9 MW-13													7	16AB, B, X, Q, M, O, E, H
15 BLIND DUPLICATE													7	17AB, B, X, Q, M, O, E, H
TRIP BLANK													3	18AB, B, X

Relinquished by: [Signature] Date: 11-8-95 Time: 8:00 am VOA Vial

Received by: [Signature] Date: 11/8/95 Time: 8:34 am Glass Bottle

Relinquished by: _____ Date: _____ Time: _____ Plastic Bottle

Received by: _____ Date: _____ Time: _____ Pres.

Relinquished by: _____ Date: _____ Time: _____ Volume

Received by: _____ Date: _____ Time: _____ Preservation Key: A — Acidified with _____
 B — Filtered, C — Sample chilled, D — NaOH,
 E — NaThiosulfate, W — Sample Ambient, F — Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)
 Filter metal samples
 dissolved metals
 Graphite lead/As/Cd
 S. vocs by 8120 for trip for full RNA compound list per [Signature]

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
 Accelerated turnaround requested: _____ Location of samples: RY, R10B3, Quinlan, SM Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other: _____
 Confirmed by: _____ Surcharge: _____

OFFICE COPY



Method References

- (a) "Methods for Chemical Analysis of Water and Wastes," Publication EPA-600/4-79-020, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1979, revised March 1983.
- (b) "Standard Methods for the Examination of Water and Wastewater." 18th ed., American Public Health Association, American Water Works Association, Water Pollution Control Federation, Washington, D.C., 1992.
- (c) "Test Methods for Evaluating Solid Waste: Physical/Chemical methods," 3rd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., November 1986, updated July 1992 and September 1994.
- (d) "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils," Publication EPA-600/4-81-045, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, September 1982.
- (e) "Hazardous Waste Management System; Identification and Listing of Hazardous Waste; Toxicity Characteristic Revisions; Final Rule," Federal Register, Vol. 55, No. 126, Friday, June 29, 1990, and revision in Federal Register, Vol. 57, No. 227, Tuesday, November 24, 1992.
- (f) "Guidelines Establishing Test Procedures for Analysis of Pollutants," Code of Federal Regulations, Part 136 Appendix A and Appendix B, July 1, 1993.
- (g) "Methods for the Determination of Organic Compounds in Drinking Water," U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C., December 1988, revised July 1991.
- (h) "The Determination of Inorganic Anions in Water by Ion Chromatography - Method 300.0," Publication EPA-600/4-84-017, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, March 1984.
- (i) "Hach Water Analysis Handbook," Hach Chemical Company, Loveland, CO, 1992.
- (j) "USEPA-CLP Statement of Work for Organic Analysis," Publication OLM01.0 (including revisions, U.S. Environmental Protection Agency, Contract Laboratory Program, August 1991.
- (k) "Annual Book of Standards," Section 11: Water and Environmental Technology, Vols. 11.01-11.04, American Society for Testing Materials, Philadelphia, 1989 & 1991.
- (l) "Annual Book of Standards," Section 5: Petroleum Products and Lubricants, Vols. 5.01, American Society for Testing Materials, Philadelphia, 1993.
- (m) "Annual Book of Standards," Section 4: Construction, Vol. 4.08, American Society for Testing Materials, Philadelphia, 1993.
- (n) "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," 2nd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., July 1982, updated April 1984.
- (o) "Annual Book of Standards," Section 15: Engine Coolants; Halogenated Organic Solvents, Vol. 15.05, American Society for Testing Materials, Philadelphia, 1995.

[REF-09/21/95]



ENVIRONMENTAL SERVICES, INC.

325 WOOD ROAD • BRAINTREE, MA 02184

(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S
P.O. #: EN170

Date Received: 11/09/95
CHES Lab #: 9511126

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID= M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Michael J. Murray 11/30/95

Michael J. Murray
Laboratory Manager



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: SW-A, (MW-12)
 Sample Type: Water

CHES Lab #: 9511126-01AB
 Date Received: 11/09/95

Volatile Organics - System E
 by EPA Method 624 (ref. f)

Analysis Date: 11/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
 * = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 120 %
 Toluene-d8: 107 %
 p-BFB: 95 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A, (MW-12)
Sample Type: Water

CHES Lab #: 9511126-01G
Date Received: 11/09/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95
Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
+Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methyl-naphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 48 %
2-Fluorobiphenyl: 47 %
Terphenyl-d14: 67 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: SW-A,(MW-12)
 Sample Type: Water

CHES Lab #: 9511126-01G
 Date Received: 11/09/95

Semi-Volatile Acid Extractable Organics - System A
 by EPA Method 625 (ref. f)

Extraction Date: 11/15/95
 Analysis Date: 11/19/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 31 %
 Phenol-d5: 26 %
 2,4,6-Tribromophenol: 87 %

Acceptance Criteria:

	<u>Water</u>	<u>Soil</u>
	21-100%	25-121%
	10-94%	24-113%
	10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A. (MW-12)
Sample Type: Water

CHES Lab #: 9511126-01N
Date Received: 11/09/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/17/95
Analysis Date: 11/21/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 36.6%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A, (MW-12)
Sample Type: Water

CHES Lab #: 9511126-01M
Date Received: 11/09/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	0.006	11/09/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/09/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	0.010	11/09/95	11/27/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	0.11	11/09/95	11/15/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A, (MW-12)
Sample Type: Water

CHES Lab #: 9511126-01H
Date Received: 11/09/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-A, (MW-12)
Sample Type: Water

CHES Lab #: 9511126-01M
Date Received: 11/09/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	---	11/09/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B, (MW-13)
Sample Type: Water

CHES Lab #: 9511126-02AB
Date Received: 11/09/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	43	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 122 %
Toluene-d8: 108 %
p-BFB: 95 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B, (MW-13)
Sample Type: Water

CHES Lab #: 9511126-02G
Date Received: 11/09/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95
Analysis Date: 11/19/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	21	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	52	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	52	ND
Chrysene	10	ND	4-Nitroaniline	52	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	21	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 49 %
2-Fluorobiphenyl: 45 %
Terphenyl-d14: 58 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B,(MW-13)
Sample Type: Water

CHES Lab #: 9511126-02G
Date Received: 11/09/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95
Analysis Date: 11/19/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	52	ND
2,4-Dinitrophenol	52	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	52	ND
Pentachlorophenol	52	ND
Phenol	10	ND
2,4,5-Trichlorophenol	52	ND
2,4,6-Trichlorophenol	52	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 37 %
Phenol-d5: 27 %
2,4,6-Tribromophenol: 74 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B,(MW-13)
Sample Type: Water

CHES Lab #: 9511126-02N
Date Received: 11/09/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 11/17/95
Analysis Date: 11/21/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 52.4%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B.(MW-13)
Sample Type: Water

CHES Lab #: 9511126-02M
Date Received: 11/09/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	0.003	11/09/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/09/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	0.005	11/09/95	11/27/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/09/95	11/15/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B, (MW-13)
Sample Type: Water

CHES Lab #: 9511126-02H
Date Received: 11/09/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: SW-B, (MW-13)
Sample Type: Water

CHES Lab #: 9511126-02M
Date Received: 11/09/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.5	--	11/09/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9511126

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.



Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 11/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 118%
Toluene-d8: 103%
p-BFB: 89%

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Semi-Volatile Base/Neutral Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95

Analysis Date: 11/16/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 59 %
2-Fluorobiphenyl: 57 %
Terphenyl-d14: 54 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Semi-Volatile Acid Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 11/15/95

Analysis Date: 11/16/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 41 %
Phenol-d5: 31 %
2,4,6-Tribromophenol: 94 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511126

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 608 (ref. f)

Extraction Date: 11/17/95

Analysis Date: 11/21/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery		Acceptance Criteria
Hexabromobenzene: 81.4%		34-104%



Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511126

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	11/09/95	11/21/95	4.1.1/206.2(a)
Cadmium - Dissolved	0.001	ND	11/09/95	11/14/95	4.1.1/213.2(a)
Lead - Dissolved	0.002	ND	11/09/95	11/27/95	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	11/09/95	11/15/95	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)

* = mg/l

Soil/solid samples based on sample dry weight



Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9511126

BLANK ANALYSIS

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.02	ND	mg/l	11/20/95	335.2(a)
Cyanide, Chlorine Amenable	0.02	ND	mg/l	11/20/95	335.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight



11/17

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 CHAIN OF CUSTODY RECORD Sample Custodian -- (617) 849-1800 Page | of |

Client: CHES Project Name: Murphys Work Order/P.O. #: EA-170 Date 11/9/95

Report To: Jay McCreery Address: Natick Phone #: X 6377

Date Samples Collected: 11/9/95 by: SJA Date Samples Received: 11/9/95

Airbill/Bill of Lading? Y (N) NOTE: Samples received unpreserved will be preserved upon arrival at CHAS Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information				Analysis							# of con.	CHAS Sample #	
	Date	Time	Station Location	Sample Matrix	8260	SVOC by HPLC	PCBS	As, Pb, Cd, Zn	Ammer. CN	pH				
SW-A	11/9	8:45	MW-12	Water	✓	✓	✓	✓	✓	✓			7	1199521 95111266 01AB+B, N, M, H, Q, X Filter As, Pb, Cd, Zn sample
SW-B	11/9	9:00	MW-13	"	✓	✓	✓	✓	✓	✓			7	02AB+B, N, M, H, Q, X G

Relinquished by: Stephen Popelbaum
 Date: 11/9/95 Time: 10:15 AM
 Received by: Robert J. O'Neil
 Date: 11-9-95 Time: 10:15
 Relinquished by: _____
 Date: _____ Time: _____
 Received by: _____
 Date: _____ Time: _____

VOA Vial ✓
 Glass Bottle ✓ ✓
 Plastic Bottle ✓ ✓
 Pres. A D
 Volume _____
 Preservation Key: A -- Acidified with HCL
 B -- Filtered, C -- Sample chilled, D -- NaOH,
 E -- NaThiosulfate, W -- Sample Ambient, F -- Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)
 * BNA 9170 list added per SJA delivery,
 MW

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge.
 Accelerated turnaround requested: _____ Location of samples: R1014 / R4
 Confirmed by: _____ Surcharge: _____ Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other: _____

OFFICE COPY



ENVIRONMENTAL SERVICES, INC.

325 WOOD ROAD, P.O. BOX 327, BRAINTREE, MA 02184-2402
(617) 849-1800

REPORT OF ANALYSIS

Clean Harbors Environmental Services, Inc.
12 Mercer Road
Natick, MA 01760

Project: MURPHY'S WASTE OIL
P.O. #: EN170

Date Received: 12/18/95
CHES Lab #: 9512201

Attn: Mr. Jay McCreery

Enclosed are the results for the sample(s) delivered to our laboratory (DEP Laboratory ID# M-MA032) on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Environmental Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic and inorganic), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date:

Michael Murray 1/6/96

Michael J. Murray
Laboratory Manager



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-01AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 99 %
Toluene-d8: 109 %
p-BFB: 102 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-01G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 62 %
2-Fluorobiphenyl: 73 %
Terphenyl-d14: 66 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-01G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 15 %
Phenol-d5: 15 %
2,4,6-Tribromophenol: 37 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-010
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 79.4%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-01E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-1
Sample Type: Water

CHES Lab #: 9512201-01M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.0	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-02AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/30/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	28	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 106 %
Toluene-d8: 116 %
p-BFB: 100 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-02G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95

Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 62 %
2-Fluorobiphenyl: 71 %
Terphenyl-d14: 55 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-02G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 38 %
Phenol-d5: 29 %
2,4,6-Tribromophenol: 95 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-020
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 88.8%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-2
Sample Type: Water

CHES Lab #: 9512201-02E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.

Sample I.D.: MW-2

Sample Type: Water

CHES Lab #: 9512201-02M

Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.9	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-03AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/30/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	100	ND	1,2-Dichloropropane	25	ND
Benzene	25	ND	cis-1,3-Dichloropropene	25	ND
Bromodichloromethane	25	ND	trans-1,3-Dichloropropene	25	ND
Bromoform	25	ND	Ethylbenzene	25	ND
Bromomethane	50	ND	2-Hexanone	25	ND
2-Butanone	100	ND	Methylene chloride	100	ND
Carbon disulfide	50	ND	4-Methyl-2-pentanone	25	ND
Carbon tetrachloride	25	ND	Methyl-t-butylether (MTBE)	50	ND
Chlorobenzene	25	ND	Styrene	25	ND
Chloroethane	50	ND	1,1,2,2-Tetrachloroethane	25	ND
2-Chloroethyl vinyl ether	50	ND	Tetrachloroethene	25	ND
Chloroform	25	ND	Toluene	25	ND
Chloromethane	50	ND	1,1,1-Trichloroethane	25	220
Dibromochloromethane	25	ND	1,1,2-Trichloroethane	25	ND
Dibromoethane (EDB)	25	ND	Trichloroethene	25	220
1,1-Dichloroethane	25	170	Trichlorofluoromethane	25	ND
1,2-Dichloroethane	25	ND	Vinyl acetate	50	ND
1,1-Dichloroethene	25	ND	Vinyl chloride	50	ND
trans-1,2-Dichloroethene	25	3.100	Total xylenes	25	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 109 %
Toluene-d8: 117 %
p-BFB: 99 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-03G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 37 %
2-Fluorobiphenyl: 55 %
Terphenyl-d14: 49 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-03G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 20 %
Phenol-d5: 22 %
2,4,6-Tribromophenol: 79 %

Acceptance Criteria:

	<u>Water</u>	<u>Soil</u>
	21-100%	25-121%
	10-94%	24-113%
	10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.

Sample I.D.: MW-3

Sample Type: Water

CHES Lab #: 9512201-030

Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95

Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 77.5%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-03E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	12/19/95	12/20/95	4.1.1/206.2(a)
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	12/19/95	01/04/96	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3
Sample Type: Water

CHES Lab #: 9512201-03M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.4	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-04AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 105 %
Toluene-d8: 119 %
p-BFB: 103 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-3D
 Sample Type: Water

CHES Lab #: 9512201-04G
 Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
 by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
 Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 57 %
 2-Fluorobiphenyl: 69 %
 Terphenyl-d14: 54 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-04G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 24 %
Phenol-d5: 23 %
2,4,6-Tribromophenol: 50 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-040
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 87.2%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-04E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-3D
Sample Type: Water

CHES Lab #: 9512201-04M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-4
 Sample Type: Water

CHES Lab #: 9512201-05AB
 Date Received: 12/18/95

Volatile Organics - System D
 by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 91 %
 Toluene-d8: 107 %
 p-BFB: 104 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9512201-05G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
+ -Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 43 %
2-Fluorobiphenyl: 49 %
Terphenyl-d14: 48 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-4
 Sample Type: Water

CHES Lab #: 9512201-05G
 Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
 by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
 Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)
 * = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 28 %
 Phenol-d5: 24 %
 2,4,6-Tribromophenol: 68 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9512201-050
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 75.3%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9512201-05E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-4
Sample Type: Water

CHES Lab #: 9512201-05M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.8	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-06AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 90 %
Toluene-d8: 112 %
p-BFB: 109 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-5S
 Sample Type: Water

CHES Lab #: 9512201-06G
 Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
 by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
 Analysis Date: 12/26/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 58 %
 2-Fluorobiphenyl: 65 %
 Terphenyl-d14: 55 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-06G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 33 %
Phenol-d5: 26 %
2,4,6-Tribromophenol: 75 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-060
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 79.2%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-06E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5S
Sample Type: Water

CHES Lab #: 9512201-06M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-5D
 Sample Type: Water

CHES Lab #: 9512201-07AB
 Date Received: 12/18/95

Volatile Organics - System D
 by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 114 %
 Toluene-d8: 119 %
 p-BFB: 110 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-07G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 72 %
2-Fluorobiphenyl: 70 %
Terphenyl-d14: 58 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-07G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 26 %
Phenol-d5: 23 %
2,4,6-Tribromophenol: 50 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-070
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 89.6%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-07E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	12/19/95	12/20/95	4.1.1/206.2(a)
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-5D
Sample Type: Water

CHES Lab #: 9512201-07M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-6
 Sample Type: Water

CHES Lab #: 9512201-08AB
 Date Received: 12/18/95

Volatile Organics - System D
 by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 122 %
 Toluene-d8: 117 %
 p-BFB: 114 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-08G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/27/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
+Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 56 %
2-Fluorobiphenyl: 53 %
Terphenyl-d14: 51 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-08G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/27/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 41 %
Phenol-d5: 30 %
2,4,6-Tribromophenol: 76 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-080
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 84.7%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-08E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)
Zinc - Dissolved	0.04	ND	12/19/95	01/04/96	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-6
Sample Type: Water

CHES Lab #: 9512201-08M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.8	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-09AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	100	ND	1,2-Dichloropropane	25	ND
Benzene	25	ND	cis-1,3-Dichloropropene	25	ND
Bromodichloromethane	25	ND	trans-1,3-Dichloropropene	25	ND
Bromoform	25	ND	Ethylbenzene	25	ND
Bromomethane	50	ND	2-Hexanone	25	ND
2-Butanone	100	ND	Methylene chloride	100	ND
Carbon disulfide	50	ND	4-Methyl-2-pentanone	25	ND
Carbon tetrachloride	25	ND	Methyl-t-butylether (MTBE)	50	ND
Chlorobenzene	25	ND	Styrene	25	ND
Chloroethane	50	ND	1,1,2,2-Tetrachloroethane	25	ND
2-Chloroethyl vinyl ether	50	ND	Tetrachloroethene	25	ND
Chloroform	25	ND	Toluene	25	ND
Chloromethane	50	ND	1,1,1-Trichloroethane	25	ND
Dibromochloromethane	25	ND	1,1,2-Trichloroethane	25	ND
Dibromoethane (EDB)	25	ND	Trichloroethene	25	ND
1,1-Dichloroethane	25	ND	Trichlorofluoromethane	25	ND
1,2-Dichloroethane	25	ND	Vinyl acetate	50	ND
1,1-Dichloroethene	25	ND	Vinyl chloride	50	ND
trans-1,2-Dichloroethene	25	ND	Total xylenes	25	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 102 %
Toluene-d8: 108 %
p-BFB: 104 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-09G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	94	ND	Dimethylphthalate	94	ND
Acenaphthylene	94	ND	Di-n-butylphthalate	94	ND
Anthracene	94	ND	2,4-Dinitrotoluene	94	ND
Benzo(a)anthracene	94	ND	2,6-Dinitrotoluene	94	ND
Benzo(a)pyrene	94	ND	Di-n-octylphthalate	94	ND
Benzo(b)fluoranthene	94	ND	Fluoranthene	94	ND
Benzo(g,h,i)perylene	94	ND	Fluorene	94	ND
Benzo(k)fluoranthene	94	ND	Hexachlorobenzene	94	ND
Bis(2-chloroethoxy)methane	94	ND	Hexachlorobutadiene	94	ND
Bis(2-chloroethyl)ether	94	ND	Hexachlorocyclopentadiene	94	ND
Bis(2-chloroisopropyl)ether	94	ND	Hexachloroethane	94	ND
Bis(2-ethylhexyl)phthalate	190	ND	Indeno(1,2,3-cd)pyrene	94	ND
4-Bromophenyl phenyl ether	94	ND	Isophorone	94	ND
Butylbenzylphthalate	94	ND	2-Methylnaphthalene	94	ND
4-Chloroaniline	94	ND	Naphthalene	94	ND
2-Chloronaphthalene	94	ND	2-Nitroaniline	470	ND
4-Chlorophenyl phenyl ether	94	ND	3-Nitroaniline	470	ND
Chrysene	94	ND	4-Nitroaniline	470	ND
Dibenzo(a,h)anthracene	94	ND	Nitrobenzene	94	ND
Dibenzofuran	94	ND	N-Nitroso-di-n-propylamine	94	ND
1,2-Dichlorobenzene	94	ND	N-Nitrosodiphenylamine	94	ND
1,3-Dichlorobenzene	94	ND	Phenanthrene	94	ND
1,4-Dichlorobenzene	94	ND	Pyrene	94	ND
3,3'-Dichlorobenzidine	190	ND	1,2,4-Trichlorobenzene	94	ND
Diethylphthalate	94	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

NA = Due to dilutions necessary to analyze the sample, the surrogate recoveries were unable to be calculated.

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: NA
2-Fluorobiphenyl: NA
Terphenyl-d14: NA

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-09G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	94	ND
2-Chlorophenol	94	ND
2,4-Dichlorophenol	94	ND
2,4-Dimethylphenol	94	ND
4,6-Dinitro-2-methylphenol	470	ND
2,4-Dinitrophenol	470	ND
2-Methylphenol	94	ND
4-Methylphenol	94	ND
2-Nitrophenol	94	ND
4-Nitrophenol	470	ND
Pentachlorophenol	470	ND
Phenol	94	ND
2,4,5-Trichlorophenol	470	ND
2,4,6-Trichlorophenol	470	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

NA = Due to dilutions necessary to analyze the sample, the surrogate recoveries were unable to be calculated.

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: NA
Phenol-d5: NA
2,4,6-Tribromophenol: NA

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-090
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 94.1%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-09E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	0.006	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-7
Sample Type: Water

CHES Lab #: 9512201-09M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-8
 Sample Type: Water

CHES Lab #: 9512201-10AB
 Date Received: 12/18/95

Volatile Organics - System D
 by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	6	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 88 %
 Toluene-d8: 104 %
 p-BFB: 96 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-8
 Sample Type: Water

CHES Lab #: 9512201-10G
 Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
 by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
 Analysis Date: 12/26/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 49 %
 2-Fluorobiphenyl: 54 %
 Terphenyl-d14: 50 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9512201-10G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95

Analysis Date: 12/26/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 37 %
Phenol-d5: 27 %
2,4,6-Tribromophenol: 89 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9512201-100
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 83.4%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9512201-10E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-8
Sample Type: Water

CHES Lab #: 9512201-10M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.2	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-9
 Sample Type: Water

CHES Lab #: 9512201-11AB
 Date Received: 12/18/95

Volatile Organics - System D
 by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	12
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	31
1,1-Dichloroethane	5	5	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 108 %
 Toluene-d8: 112 %
 p-BFB: 106 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-11G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/26/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	51	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	51	ND
Chrysene	10	ND	4-Nitroaniline	51	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 50 %
2-Fluorobiphenyl: 61 %
Terphenyl-d14: 68 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-11G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95

Analysis Date: 12/26/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	51	ND
2,4-Dinitrophenol	51	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	51	ND
Pentachlorophenol	51	ND
Phenol	10	ND
2,4,5-Trichlorophenol	51	ND
2,4,6-Trichlorophenol	51	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 41 %
Phenol-d5: 31 %
2,4,6-Tribromophenol: 92 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-110
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 77.7%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-11E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	0.006	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-9
Sample Type: Water

CHES Lab #: 9512201-11M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.8	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-12AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)
* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 107 %
Toluene-d8: 123 %
p-BFB: 109 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-12G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 65 %
2-Fluorobiphenyl: 62 %
Terphenyl-d14: 48 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-12G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 36 %
Phenol-d5: 29 %
2,4,6-Tribromophenol: 54 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-120
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 78.7%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-12E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.001	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-10
Sample Type: Water

CHES Lab #: 9512201-12M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.2	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: MW-11
 Sample Type: Water

CHES Lab #: 9512201-13AB
 Date Received: 12/18/95

Volatile Organics - System E
 by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	100	ND	1,2-Dichloropropane	25	ND
Benzene	25	ND	cis-1,3-Dichloropropene	25	ND
Bromodichloromethane	25	ND	trans-1,3-Dichloropropene	25	ND
Bromoform	25	ND	Ethylbenzene	25	ND
Bromomethane	50	ND	2-Hexanone	25	ND
2-Butanone	100	ND	Methylene chloride	100	ND
Carbon disulfide	50	ND	4-Methyl-2-pentanone	25	ND
Carbon tetrachloride	25	ND	Methyl-t-butylether (MTBE)	50	ND
Chlorobenzene	25	ND	Styrene	25	ND
Chloroethane	50	ND	1,1,2,2-Tetrachloroethane	25	ND
2-Chloroethyl vinyl ether	50	ND	Tetrachloroethene	25	ND
Chloroform	25	ND	Toluene	25	ND
Chloromethane	50	ND	1,1,1-Trichloroethane	25	380
Dibromochloromethane	25	ND	1,1,2-Trichloroethane	25	ND
Dibromoethane (EDB)	25	ND	Trichloroethene	25	ND
1,1-Dichloroethane	25	230	Trichlorofluoromethane	25	ND
1,2-Dichloroethane	25	ND	Vinyl acetate	50	ND
1,1-Dichloroethene	25	ND	Vinyl chloride	50	ND
trans-1,2-Dichloroethene	25	ND	Total xylenes	25	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 98 %
 Toluene-d8: 112 %
 p-BFB: 97 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-13G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 41 %
2-Fluorobiphenyl: 39 %
Terphenyl-d14: 87 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-13G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 28 %
Phenol-d5: 23 %
2,4,6-Tribromophenol: 84 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-130
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 74.5%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-13E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	12/19/95	12/20/95	4.1.1/206.2(a)
Lead - Dissolved	0.001	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-11
Sample Type: Water

CHES Lab #: 9512201-13M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.6	--	12/19/95	150.1(a)

Notes: ND - Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-14AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	40	ND	1,2-Dichloropropane	10	ND
Benzene	10	ND	cis-1,3-Dichloropropene	10	ND
Bromodichloromethane	10	ND	trans-1,3-Dichloropropene	10	ND
Bromoform	10	ND	Ethylbenzene	10	ND
Bromomethane	20	ND	2-Hexanone	10	ND
2-Butanone	40	ND	Methylene chloride	40	ND
Carbon disulfide	20	ND	4-Methyl-2-pentanone	10	ND
Carbon tetrachloride	10	ND	Methyl-t-butylether (MTBE)	20	ND
Chlorobenzene	10	ND	Styrene	10	ND
Chloroethane	20	ND	1,1,2,2-Tetrachloroethane	10	ND
2-Chloroethyl vinyl ether	20	ND	Tetrachloroethene	10	ND
Chloroform	10	ND	Toluene	10	ND
Chloromethane	20	ND	1,1,1-Trichloroethane	10	ND
Dibromochloromethane	10	ND	1,1,2-Trichloroethane	10	ND
Dibromoethane (EDB)	10	ND	Trichloroethene	10	ND
1,1-Dichloroethane	10	15	Trichlorofluoromethane	10	ND
1,2-Dichloroethane	10	ND	Vinyl acetate	20	ND
1,1-Dichloroethene	10	ND	Vinyl chloride	20	ND
trans-1,2-Dichloroethene	10	150	Total xylenes	10	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 98 %
Toluene-d8: 109 %
p-BFB: 95 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-14G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	23	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 60 %
2-Fluorobiphenyl: 59 %
Terphenyl-d14: 57 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-14G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 45 %
Phenol-d5: 35 %
2,4,6-Tribromophenol: 87 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-140
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 65.3%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-14E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Arsenic - Dissolved	0.002	ND	12/19/95	12/20/95	4.1.1/206.2(a)
Lead - Dissolved	0.001	ND	12/19/95	01/02/96	4.1.1/239.2(a)
Zinc - Dissolved	0.04	2.0	12/19/95	01/04/96	4.1.1/200.7(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-12
Sample Type: Water

CHES Lab #: 9512201-14M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.5	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-15AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/31/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 101 %
Toluene-d8: 115 %
p-BFB: 97 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-15G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	19	ND	Dimethylphthalate	19	ND
Acenaphthylene	19	ND	Di-n-butylphthalate	19	ND
Anthracene	19	ND	2,4-Dinitrotoluene	19	ND
Benzo(a)anthracene	19	ND	2,6-Dinitrotoluene	19	ND
Benzo(a)pyrene	19	ND	Di-n-octylphthalate	19	ND
Benzo(b)fluoranthene	19	ND	Fluoranthene	19	ND
Benzo(g,h,i)perylene	19	ND	Fluorene	19	ND
Benzo(k)fluoranthene	19	ND	Hexachlorobenzene	19	ND
Bis(2-chloroethoxy)methane	19	ND	Hexachlorobutadiene	19	ND
Bis(2-chloroethyl)ether	19	ND	Hexachlorocyclopentadiene	19	ND
Bis(2-chloroisopropyl)ether	19	ND	Hexachloroethane	19	ND
Bis(2-ethylhexyl)phthalate	38	ND	Indeno(1,2,3-cd)pyrene	19	ND
4-Bromophenyl phenyl ether	19	ND	Isophorone	19	ND
Butylbenzylphthalate	19	ND	2-Methylnaphthalene	19	ND
4-Chloroaniline	19	ND	Naphthalene	19	ND
2-Chloronaphthalene	19	ND	2-Nitroaniline	94	ND
4-Chlorophenyl phenyl ether	19	ND	3-Nitroaniline	94	ND
Chrysene	19	ND	4-Nitroaniline	94	ND
Dibenzo(a,h)anthracene	19	ND	Nitrobenzene	19	ND
Dibenzofuran	19	ND	N-Nitroso-di-n-propylamine	19	ND
1,2-Dichlorobenzene	19	ND	N-Nitrosodiphenylamine	19	ND
1,3-Dichlorobenzene	19	ND	Phenanthrene	19	ND
1,4-Dichlorobenzene	19	ND	Pyrene	19	ND
3,3'-Dichlorobenzidine	38	ND	1,2,4-Trichlorobenzene	19	ND
Diethylphthalate	19	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 67 %
2-Fluorobiphenyl: 76 %
Terphenyl-d14: 62 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-15G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	19	ND
2-Chlorophenol	19	ND
2,4-Dichlorophenol	19	ND
2,4-Dimethylphenol	19	ND
4,6-Dinitro-2-methylphenol	94	ND
2,4-Dinitrophenol	94	ND
2-Methylphenol	19	ND
4-Methylphenol	19	ND
2-Nitrophenol	19	ND
4-Nitrophenol	94	ND
Pentachlorophenol	94	ND
Phenol	19	ND
2,4,5-Trichlorophenol	94	ND
2,4,6-Trichlorophenol	94	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Additional compounds observed in sample.

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 48 %
Phenol-d5: 41 %
2,4,6-Tribromophenol: 102 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-150
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	3.8	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 88.5%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-15E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.001	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MW-13
Sample Type: Water

CHES Lab #: 9512201-15M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.3	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-16AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 101 %
Toluene-d8: 118 %
p-BFB: 101 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-16G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 66 %
2-Fluorobiphenyl: 61 %
Terphenyl-d14: 44 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-16G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 51 %
Phenol-d5: 39 %
2,4,6-Tribromophenol: 75 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-160
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 62.6%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-16E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.001	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-1SS
Sample Type: Water

CHES Lab #: 9512201-16M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.1	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-17AB
Date Received: 12/18/95

Volatile Organics - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	5	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	12
trans-1,2-Dichloroethene	5	140	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 104 %
Toluene-d8: 115 %
p-BFB: 103 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-17G
Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	19	ND	Dimethylphthalate	19	ND
Acenaphthylene	19	ND	Di-n-butylphthalate	19	ND
Anthracene	19	ND	2,4-Dinitrotoluene	19	ND
Benzo(a)anthracene	19	ND	2,6-Dinitrotoluene	19	ND
Benzo(a)pyrene	19	ND	Di-n-octylphthalate	19	ND
Benzo(b)fluoranthene	19	ND	Fluoranthene	19	ND
Benzo(g,h,i)perylene	19	ND	Fluorene	19	ND
Benzo(k)fluoranthene	19	ND	Hexachlorobenzene	19	ND
Bis(2-chloroethoxy)methane	19	ND	Hexachlorobutadiene	19	ND
Bis(2-chloroethyl)ether	19	ND	Hexachlorocyclopentadiene	19	ND
Bis(2-chloroisopropyl)ether	19	ND	Hexachloroethane	19	ND
Bis(2-ethylhexyl)phthalate	38	ND	Indeno(1,2,3-cd)pyrene	19	ND
4-Bromophenyl phenyl ether	19	ND	Isophorone	19	ND
Butylbenzylphthalate	19	ND	2-Methylnaphthalene	19	ND
4-Chloroaniline	19	ND	Naphthalene	19	ND
2-Chloronaphthalene	19	ND	2-Nitroaniline	94	ND
4-Chlorophenyl phenyl ether	19	ND	3-Nitroaniline	94	ND
Chrysene	19	ND	4-Nitroaniline	94	ND
Dibenzo(a,h)anthracene	19	ND	Nitrobenzene	19	ND
Dibenzofuran	19	ND	N-Nitroso-di-n-propylamine	19	ND
1,2-Dichlorobenzene	19	ND	N-Nitrosodiphenylamine	19	ND
1,3-Dichlorobenzene	19	ND	Phenanthrene	19	ND
1,4-Dichlorobenzene	19	ND	Pyrene	19	ND
3,3'-Dichlorobenzidine	38	ND	1,2,4-Trichlorobenzene	19	ND
Diethylphthalate	19	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 72 %
2-Fluorobiphenyl: 78 %
Terphenyl-d14: 66 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-17G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95

Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	19	ND
2-Chlorophenol	19	ND
2,4-Dichlorophenol	19	ND
2,4-Dimethylphenol	19	ND
4,6-Dinitro-2-methylphenol	94	ND
2,4-Dinitrophenol	94	ND
2-Methylphenol	19	ND
4-Methylphenol	19	ND
2-Nitrophenol	19	ND
4-Nitrophenol	94	ND
Pentachlorophenol	94	ND
Phenol	19	ND
2,4,5-Trichlorophenol	94	ND
2,4,6-Trichlorophenol	94	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 49 %
Phenol-d5: 39 %
2,4,6-Tribromophenol: 99 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-170
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 74.8%	34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-17E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	0.009	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: MR-2SS
Sample Type: Water

CHES Lab #: 9512201-17M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	6.0	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: BLIND DUPLICATE (MW-3)
 Sample Type: Water

CHES Lab #: 9512201-18AB
 Date Received: 12/18/95

Volatile Organics - System E
 by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	1000	ND	1,2-Dichloropropane	250	ND
Benzene	250	ND	cis-1,3-Dichloropropene	250	ND
Bromodichloromethane	250	ND	trans-1,3-Dichloropropene	250	ND
Bromoform	250	ND	Ethylbenzene	250	ND
Bromomethane	500	ND	2-Hexanone	250	ND
2-Butanone	1000	ND	Methylene chloride	1000	ND
Carbon disulfide	500	ND	4-Methyl-2-pentanone	250	ND
Carbon tetrachloride	250	ND	Methyl-t-butylether (MTBE)	500	ND
Chlorobenzene	250	ND	Styrene	250	ND
Chloroethane	500	ND	1,1,2,2-Tetrachloroethane	250	ND
2-Chloroethyl vinyl ether	500	ND	Tetrachloroethene	250	ND
Chloroform	250	ND	Toluene	250	ND
Chloromethane	500	ND	1,1,1-Trichloroethane	250	360
Dibromochloromethane	250	ND	1,1,2-Trichloroethane	250	ND
Dibromoethane (EDB)	250	ND	Trichloroethene	250	400
1,1-Dichloroethane	250	250	Trichlorofluoromethane	250	ND
1,2-Dichloroethane	250	ND	Vinyl acetate	500	ND
1,1-Dichloroethene	250	ND	Vinyl chloride	500	ND
trans-1,2-Dichloroethene	250	5,300	Total xylenes	250	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 109 %
 Toluene-d8: 121 %
 p-BFB: 106 %

Acceptance Criteria:

	<u>Water</u>	<u>Soil</u>
	72-122%	70-121%
	86-123%	84-138%
	83-123%	59-113%



Client: Clean Harbors Environmental Services, Inc.
 Sample I.D.: BLIND DUPLICATE (MW-3)
 Sample Type: Water

CHES Lab #: 9512201-18G
 Date Received: 12/18/95

Semi-Volatile Base/Neutral Extractable Organics - System A
 by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
 Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 63 %
 2-Fluorobiphenyl: 63 %
 Terphenyl-d14: 56 %

Acceptance Criteria:

Water	Soil
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-3)
Sample Type: Water

CHES Lab #: 9512201-18G
Date Received: 12/18/95

Semi-Volatile Acid Extractable Organics - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

Hydrocarbon background present in sample.

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 44 %
Phenol-d5: 36 %
2,4,6-Tribromophenol: 85 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-3)
Sample Type: Water

CHES Lab #: 9512201-180
Date Received: 12/18/95

Polychlorinated Biphenyls (PCBs)
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95
Analysis Date: 12/28/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery

Acceptance Criteria

Hexabromobenzene: 67.1%

34-104%



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-3)
Sample Type: Water

CHES Lab #: 9512201-18E
Date Received: 12/18/95

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	0.013	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: BLIND DUPLICATE (MW-3)
Sample Type: Water

CHES Lab #: 9512201-18M
Date Received: 12/18/95

Parameter	PQL	Result	Units	Analysis Date	Method Number and Reference
pH	--	5.5	--	12/19/95	150.1(a)

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid samples based on sample dry weight.



Client: Clean Harbors Environmental Services, Inc.
Sample I.D.: TRIP BLANK
Sample Type: Water

CHES Lab #: 9512201-19AB
Date Received: 12/18/95

Volatile Organics - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 101 %
Toluene-d8: 108 %
p-BFB: 104 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



QUALITY CONTROL

REPORT OF ANALYSIS

CHES LAB. NO. 9512201

The attached quality control data were generated during the analysis of these samples. All results have been generated in accordance with the procedures as stated in the Clean Harbors Environmental Services, Inc. Quality Assurance/Quality Control Manual and pertinent standard operating procedures, which are available for review. The attached has been submitted for informational purposes only.



Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/30/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 105%
Toluene-d8: 117%
p-BFB: 100%

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 98%
Toluene-d8: 115%
p-BFB: 100%

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Volatile Organics Blank - System D
by EPA Method 624 (ref. f)

Analysis Date: 12/29/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1;2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 100%
Toluene-d8: 109%
p-BFB: 107%

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Volatile Organics Blank - System E
by EPA Method 624 (ref. f)

Analysis Date: 12/31/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acetone	20	ND	1,2-Dichloropropane	5	ND
Benzene	5	ND	cis-1,3-Dichloropropene	5	ND
Bromodichloromethane	5	ND	trans-1,3-Dichloropropene	5	ND
Bromoform	5	ND	Ethylbenzene	5	ND
Bromomethane	10	ND	2-Hexanone	5	ND
2-Butanone	20	ND	Methylene chloride	20	ND
Carbon disulfide	10	ND	4-Methyl-2-Pentanone	5	ND
Carbon tetrachloride	5	ND	Methyl-t-butylether (MTBE)	10	ND
Chlorobenzene	5	ND	Styrene	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
2-Chloroethyl vinyl ether	10	ND	Tetrachloroethene	5	ND
Chloroform	5	ND	Toluene	5	ND
Chloromethane	10	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	5	ND	1,1,2-Trichloroethane	5	ND
Dibromoethane (EDB)	5	ND	Trichloroethene	5	ND
1,1-Dichloroethane	5	ND	Trichlorofluoromethane	5	ND
1,2-Dichloroethane	5	ND	Vinyl acetate	10	ND
1,1-Dichloroethene	5	ND	Vinyl chloride	10	ND
trans-1,2-Dichloroethene	5	ND	Total xylenes	5	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-d4: 103%
Toluene-d8: 117%
p-BFB: 101%

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
72-122%	70-121%
86-123%	84-138%
83-123%	59-113%



Semi-Volatile Base/Neutral Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95

Analysis Date: 12/22/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 60 %
2-Fluorobiphenyl: 62 %
Terphenyl-d14: 57 %

Acceptance Criteria:

Water	Soil
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Semi-Volatile Acid Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/21/95

Analysis Date: 12/22/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 22 %
Phenol-d5: 25 %
2,4,6-Tribromophenol: 64 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Semi-Volatile Base/Neutral Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95

Analysis Date: 12/28/95

Parameter	PQL*	Conc.*	Parameter	PQL*	Conc.*
Acenaphthene	10	ND	Dimethylphthalate	10	ND
Acenaphthylene	10	ND	Di-n-butylphthalate	10	ND
Anthracene	10	ND	2,4-Dinitrotoluene	10	ND
Benzo(a)anthracene	10	ND	2,6-Dinitrotoluene	10	ND
Benzo(a)pyrene	10	ND	Di-n-octylphthalate	10	ND
Benzo(b)fluoranthene	10	ND	Fluoranthene	10	ND
Benzo(g,h,i)perylene	10	ND	Fluorene	10	ND
Benzo(k)fluoranthene	10	ND	Hexachlorobenzene	10	ND
Bis(2-chloroethoxy)methane	10	ND	Hexachlorobutadiene	10	ND
Bis(2-chloroethyl)ether	10	ND	Hexachlorocyclopentadiene	10	ND
Bis(2-chloroisopropyl)ether	10	ND	Hexachloroethane	10	ND
Bis(2-ethylhexyl)phthalate	20	ND	Indeno(1,2,3-cd)pyrene	10	ND
4-Bromophenyl phenyl ether	10	ND	Isophorone	10	ND
Butylbenzylphthalate	10	ND	2-Methylnaphthalene	10	ND
4-Chloroaniline	10	ND	Naphthalene	10	ND
2-Chloronaphthalene	10	ND	2-Nitroaniline	50	ND
4-Chlorophenyl phenyl ether	10	ND	3-Nitroaniline	50	ND
Chrysene	10	ND	4-Nitroaniline	50	ND
Dibenzo(a,h)anthracene	10	ND	Nitrobenzene	10	ND
Dibenzofuran	10	ND	N-Nitroso-di-n-propylamine	10	ND
1,2-Dichlorobenzene	10	ND	N-Nitrosodiphenylamine	10	ND
1,3-Dichlorobenzene	10	ND	Phenanthrene	10	ND
1,4-Dichlorobenzene	10	ND	Pyrene	10	ND
3,3'-Dichlorobenzidine	20	ND	1,2,4-Trichlorobenzene	10	ND
Diethylphthalate	10	ND			

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

Nitrobenzene-d5: 62 %
2-Fluorobiphenyl: 63 %
Terphenyl-d14: 55 %

Acceptance Criteria:

Water	Soil
35-114%	23-120%
43-116%	30-115%
33-141%	18-137%



Semi-Volatile Acid Extractable Organics Blank - System A
by EPA Method 625 (ref. f)

Extraction Date: 12/22/95

Analysis Date: 12/28/95

Parameter	PQL*	Conc.*
4-Chloro-3-methylphenol	10	ND
2-Chlorophenol	10	ND
2,4-Dichlorophenol	10	ND
2,4-Dimethylphenol	10	ND
4,6-Dinitro-2-methylphenol	50	ND
2,4-Dinitrophenol	50	ND
2-Methylphenol	10	ND
4-Methylphenol	10	ND
2-Nitrophenol	10	ND
4-Nitrophenol	50	ND
Pentachlorophenol	50	ND
Phenol	10	ND
2,4,5-Trichlorophenol	50	ND
2,4,6-Trichlorophenol	50	ND

Notes

ND = Below practical quantitation limit (PQL)

* = ug/l

QA/QC

Surrogate Recoveries:

2-Fluorophenol: 43 %
Phenol-d5: 37 %
2,4,6-Tribromophenol: 69 %

Acceptance Criteria:

<u>Water</u>	<u>Soil</u>
21-100%	25-121%
10-94%	24-113%
10-123%	19-122%



Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9512201

Polychlorinated Biphenyls (PCBs) Blank
by EPA Method 608 (ref. f)

Extraction Date: 12/22/95

Analysis Date: 12/27/95

Parameter	PQL	Concentration	Units
PCB - Aroclor 1016	1.0	ND	ug/l
PCB - Aroclor 1221	1.0	ND	ug/l
PCB - Aroclor 1232	1.0	ND	ug/l
PCB - Aroclor 1242	1.0	ND	ug/l
PCB - Aroclor 1248	1.0	ND	ug/l
PCB - Aroclor 1254	1.0	ND	ug/l
PCB - Aroclor 1260	1.0	ND	ug/l

Notes: ND = Below practical quantitation limit (PQL)
Soil/solid sample results based on sample dry weight.

QA/QC

Surrogate Recovery	Acceptance Criteria
Hexabromobenzene: 73.4%	34-104%



Client: Clean Harbors Environmental Services, Inc.

CHES Lab #: 9512201

BLANK ANALYSIS

METALS

Parameter	PQL*	Result*	Filtration Date	Analysis Date	Method Number and Reference
Lead - Dissolved	0.005	ND	12/19/95	01/02/96	4.1.1/239.2(a)

Notes: ND = Below practical quantitation limit (PQL)
* = mg/l
Soil/solid samples based on sample dry weight



J/12/11

Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 CHAIN OF CUSTODY RECORD Sample Custodian — (617) 849-1800 Page 1 of 3

Client: CHES Project Name: MURPHY'S WASTE OIL Work Order/P.O. #: EN-170 Date: 12-18-95
 Report To: JAY MCCREERY Address: 12 MERCER RD., RATICK Phone #: X6399
 Date Samples Collected: 12-18-95 by: R. White-Capriano Date Samples Received: 12-18-95

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information				Analysis								# of con.	CHAS Sample # ^B 12118	
	Date	Time	Station Location	Sample Matrix	VOA	G24	BNA	G25	PCB	Diss. Lead	Diss. Cadmium	Diss. Arsenic			Diss. Zinc
MW-1	12-18	1030		WATER	2	1	1	1					1	5	01AB,B,G,M,O,E
MW-2		1500			2	1	1	1					1	5	02AB,B,G,M,O,E
MW-3		1030			2	1	1	1			1	1	1	5	03AB,B,G,M,O,E
MW-3D		1100			2	1	1	1					1	5	04AB,B,G,M,O,E
MW-4		1200			2	1	1	1					1	5	05AB,B,G,M,O,E
MW-55		1200			2	1	1	1					1	5	06AB,B,G,M,O,E
MW-5D		1230			2	1	1	1			1		1	5	07AB,B,G,M,O,E
MW-6		1500			2	1	1	1				1	1	5	08AB,B,G,M,O,E
MW-7		1530			2	1	1	1					1	5	09AB,B,G,M,O,E

Relinquished by: [Signature] Date: 12-18-95 Time: 1820 VOA Vial: 18
 Received by: [Signature] Date: 12/18/95 Time: 6:10 Glass Bottle: 9 Plastic Bottle: 9
 Relinquished by: _____ Date: _____ Time: _____ Pres.: A/C C: C C: C C: C
 Received by: _____ Date: _____ Time: _____ Volume: _____
 Preservation Key: A - Acidified with HCl to pH < 2.0
B - Filtered, C - Sample chilled, D - NaOH, E - NaThiosulfate, W - Sample Ambient, F - Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)
 Filter metals at lab.
 Take pH from PCB sample which is not preserved.

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge. Location of samples: _____
 Accelerated turnaround requested: _____ Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other: _____
 Confirmed by: _____ Surcharge: _____

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Clean Harbors Analytical Services, Inc., 325 Wood Rd., Braintree, MA 02184 CHAIN OF CUSTODY RECORD Sample Custodian — (617) 849-1800 Page 2 of 3

Client: CHES Project Name: MURPHY'S WASTE OIL Work Order/P.O. #: EN-170 Date: 12-18-95

Report To: JAM MCCREERY Address: 12 MERCER RD, NATICK Phone #: 6399

Date Samples Collected: 12-18-95 by: R. WILKINSON Date Samples Received: 12-18-95

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were Preserved Unpreserved

Sample I.D.	Sampling Information				Analysis										# of con.	CHAS Sample #			
	Date	Time	Station Location	Sample Matrix	VOA 624	BNA 625	PCB	DTSS Lead	DTSS Cadmium	DTSS Arsenic	DTSS Zinc	pH							
MW-8	12-18	1200		WATER	2	1	1	1				1	5	10AB,B,G,M,O,E					
MW-9		1430			2	1	1	1				1	5	11AB,B,G,M,O,E					
MW-10		1200			2	1	1	1				1	5	12AB,B,G,M,O,E					
MW-11		1130			2	1	1	1		1		1	5	13AB,B,G,M,O,E					
MW-12		1100			2	1	1	1		1	1	1	5	14AB,B,G,M,O,E					
MW-13		1030			2	1	1	1				1	5	15AB,B,G,M,O,E					
MR-155		1530			2	1	1	1				1	5	16AB,B,G,M,O,E					
MR-255		1600			2	1	1	1				1	5	17AB,B,G,M,O,E					
Blind Duplicate	↓	YES		↓	2	1	1	1				1	5	18AB,B,G,M,O,E					
Relinquished by: <u>R. Wilkinson</u> Date: <u>12-18-95</u> Time: <u>1820</u>				VOA Vial	18											REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions) <u>Filter metals at lab. Take pH from PCB sample which is not preserved.</u>			
Received by: <u>R. Wilkinson</u> Date: <u>12/18/95</u> Time: <u>6:14</u>				Glass Bottle		9	9												
Relinquished by: _____ Date: _____ Time: _____				Plastic Bottle				9											
				Pres.	A/C	C	C	C											
				Volume															
Received by: _____ Date: _____ Time: _____				Preservation Key: <u>(A) - Acidified with HCl to pH < 2.0</u> <u>(B) - Filtered, (C) - Sample chilled, D - NaOH,</u> <u>E - NaThiosulfate, W - Sample Ambient, F - Other</u>															

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge. Location of samples: _____
Accelerated turnaround requested: _____ Turnaround: 24 Hrs. 48 Hrs. 1 Week 2 Weeks Other: _____
Confirmed by: _____ Surcharge: _____

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Client: CHES Project Name: MURPHY'S WASTE OIL Work Order/P.O. #: EN-170 Date: 12-15-95

Report To: JAY MCCREERY Address: 12 MERCER RD, NATICK Phone #: 6399

Date Samples Collected: 12-18-95 by: CHW/C.P.C./T.H.Y. Date Samples Received: 12-18-95

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved Unpreserved

Sample I.D.	Sampling Information				Analysis										# of con.	CHAS Sample #	
	Date	Time	Station Location	Sample Matrix	VOA	G24	BNA	G25	PCB	D.Fs. Lead	D.Fs. Cadmium	D.Fs. Arsenic	D.Fs. Zinc	pH			
SW-A	12/18			water	2	1	1	1	1					1	5	9512201	
SW-B	↓			↓	2	1	1	1						1	5		RM
Trip Blank	↓			↓	2										2B		19AB, B, X

Relinquished by: [Signature]
 Date: 12-18-95 Time: 1620

Received by: Royal Samson
 Date: 12/18/95 Time: 6:15

Relinquished by: _____
 Date: _____ Time: _____

Received by: _____
 Date: _____ Time: _____

VOA Vial: 6

Glass Bottle: 2 2

Plastic Bottle: 2

Pres.: A/C C C C

Volume: _____

Preservation Key: A - Acidified with HCl to pH 2.0
B - Filtered C - Sample chilled, D - NaOH,
 E - NaThiosulfate, W - Sample Ambient, F - Other

REMARKS/COMMENTS: (Sample storage, nonstandard bottles, cautions, special instructions)

Filter metals at lab.
Take pH from PCB sample
while is not preserved.

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