

**Table 1
As-Built Sediment Core Locations**

Location ID	Core Type	Date Collected	Latitude	Longitude	Measured Water Depth (feet)	Measured Penetration (feet)	Measured Recovery (feet)	Calculated Mudline Elevation (MLLW)
MR8	Vibracore	2/7/2012	42 36.6698	-70 39.5000	17.5	3.5	0.6	-8.6
MR9	Vibracore	2/7/2012	42 36.6618	-70 39.4920	16.0	5.0	1.2	-7.8
MR10	Vibracore	2/7/2012	42 36.6575	-70 39.4895	15.8	5.0	1.0	-9.8
MR11	Vibracore	2/7/2012	42 36.6501	-70 39.4845	15.9	5.0	3.0	-10.5
MR12	Push Core	2/6/2012	42 36.6590	-70 39.5170	9.9	5.0	3.8	-0.6
MR13	Push Core	2/6/2012	42 36.6540	-70 39.5110	11.9	5.0	2.7	-2.6
MR14	Push Core	2/6/2012	42 36.6480	-70 39.5050	11.9	5.0	3.4	-2.6
A	Vibracore	2/6/2012	42 36.6728	-70 39.5128	9.3	5.0	3.4	-1.1
B	Vibracore	2/6/2012	42 36.6780	-70 39.5070	8.9	2.5	1.1	-1.9
B2	Vibracore	2/6/2012	42 36.6780	-70 39.5070	8.0	2.5	1.0	-1.0
C	Vibracore	2/6/2012	42 36.6769	-70 39.5031	9.8	5.0	1.3	-2.9
C2	Vibracore	2/7/2012	42 36.6766	-70 39.5032	13.1	8.0	3.5	-3.1
D	Vibracore	2/6/2012	42 36.6677	-70 39.4947	15.1	4.0	2.2	-7.3
E	Vibracore	2/6/2012	42 36.6609	-70 39.4886	13.1	4.0	1.7	-9.4
E2	Vibracore	2/7/2012	42 36.6583	-70 39.4868	20.0	2.0	0.0	-10.1

Notes:

1. Cores collected by TG&B Marine Services, Inc. (TG&B) and processed by representatives of Anchor QEA, LLC (Anchor QEA) and Environmental Partners Group, Inc. (EPG) on February 6 and 7, 2012.
2. Latitude and longitude are reported in WGS84.
3. "Measured Water Depth" measured by TG&B with a lead line.
4. Recovery measured by representatives of Anchor QEA and EPG.
5. "Calculated Mudline Elevation" calculated with reference to observed tidal elevations in Boston Harbor and corrected for tidal correction between Gloucester and Boston.
6. Six attempts were made to collect a sediment core at location E2. Penetration of the sediment and recovery failed during each attempt apparently due to obstructions in the subsurface.
7. MLLW = mean lower low water

Table 2
Detected Concentrations of PAHs and TOC in
Sediment Samples

Location ID	Units	MR-8	MR-9	MR-10	MR-11	MR-11	MR-11	MR-12	MR-12	MR-12	MR-12	MR-13	MR-13	MR-14	MR-14	
Sample Name		MR-8-S1	MR-9-S1	MR-10-S1	MR-11-S1	MR-11-S3	MR-11-S6	MR-12-S1	MR-12-S5	MR-12-S7	020612-DUP1	MR-13-S1	MR-13-S5	MR-14-S1	MR-14-S6	
Date Collected		7-Feb-12	7-Feb-12	7-Feb-12	7-Feb-12	7-Feb-12	7-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	
Sample Depth (feet)		0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	1.0 - 1.5	2.5 - 3.0	0.0 - 0.5	2.0 - 2.5	3.0 - 3.5	3.0 - 3.5	3.0 - 3.5	0.0 - 0.5	2.0 - 2.5	0.0 - 0.5	2.5 - 3.0
Polycyclic Aromatic Hydrocarbons																
Acenaphthene	mg/kg	0.365	0.245	0.157	0.617	0.0344	0.00825 U	0.528	2.62	0.073	0.215	2.13	0.0143 U	0.388	0.0533	
Acenaphthylene	mg/kg	3.74	2.39	1.27	4.08	0.532	0.00825 U	2.95	0.836	0.0187	0.104	19.1	0.0143 U	5.18	0.0122 U	
Anthracene	mg/kg	2.13	1.64	0.922	3.96	0.272	0.00825 U	1.78	27.1	0.35	1.07	16.4	0.0143 U	2.17	0.0204	
Benzo(a)anthracene	mg/kg	6.85	4.67	2.53	8.96	1.56	0.00825 U	6.21	29.4	0.541	1.83	48.3	0.0143 U	7.44	0.0276	
Benzo(a)pyrene	mg/kg	7.06	4.91	2.87	10.5	1.38	0.00825 U	6.15	17.8	0.291	1.1	41.6	0.0143 U	9.92	0.0166	
Benzo(b)fluoranthene	mg/kg	5.18	3.21	1.94	6.7	0.909	0.00825 U	5	11.3	0.228	0.961	21.5	0.0143 U	6.35	0.0168	
Benzo(g,h,i)perylene	mg/kg	3.34	2.17	1.33	4.45	0.461	0.00825 U	2.66	5.19	0.0968	0.381	14.6	0.0143 U	4.05	0.0122 U	
Benzo(k)fluoranthene	mg/kg	4.04	3.21	1.97	7.09	0.657	0.00825 U	2.82	15.6	0.228	0.756	26.6	0.0143 U	5.84	0.0174	
Chrysene	mg/kg	6.42	4.52	2.44	8.59	0.774	0.00825 U	4.26	25	0.39	1.28	37.1	0.0143 U	7.25	0.0186	
Dibenzo(a,h)anthracene	mg/kg	0.935	0.693	0.393	1.25	0.156	0.00825 U	0.82	2.35	0.0426	0.174	4.61	0.0143 U	1.2	0.0122 U	
Fluoranthene	mg/kg	6.93	5.05	3.51	10.2	0.622	0.00825 U	6.94	46.2	0.862	2.89	29.9	0.0143 U	7.55	0.034	
Fluorene	mg/kg	0.374	0.35	0.236	0.774	0.0278	0.00825 U	0.535	6.68	0.0923	0.172	2.27	0.0143 U	0.276	0.0289	
Indeno(1,2,3-cd)pyrene	mg/kg	3.63	2.33	1.42	4.61	0.487	0.00825 U	2.86	6.42	0.105	0.441	16.2	0.0143 U	4.35	0.0122 U	
Naphthalene	mg/kg	0.59	0.621	0.468	1.27	0.104	0.00825 U	1.1	4	1.25	1.43	7.52	0.0143 U	0.983	2.26	
Phenanthrene	mg/kg	2.53	2.14	2	5.38	0.214	0.00825 U	4.48	33.5	0.184	1.43	7.65	0.0143 U	2.03	0.0369	
Pyrene	mg/kg	9.81	7.71	4.17	18	4.15	0.00825 U	9.98	34.7	0.688	2.2	96.8	0.0143 U	15.1	0.0587	
Total PAHs	mg/kg	63.92	45.86	28	96	12.34	ND	59	269	5.44	16.4	392	ND	80.1	2.61	
Total Organic Carbon																
TOC (Run 1)	%	4.56	3.13	3.48	3.33	3.21	2.70	3.46	4.06	1.85	1.74	3.08	2.33	3.02	2.14	
TOC (Run 2)	%	4.19	3.03	2.81	3.49	3.12	2.56	3.36	3.38	1.80	1.73	3.14	2.16	2.87	1.99	

Notes:

- 1) Samples were collected by TG&B Marine Services, Inc. (TG&B) and processed by a representative of Anchor QEA, LLC (Anchor QEA) and Environmental Partners Group, Inc. (EPG) on February 6 and 7, 2012.
- 2) "Total PAHs" was calculated by Anchor QEA as the sum of detected values and one half the detection limit.
- 3) U = Indicates compound was analyzed for, but not detected at or above the reporting limit shown.
- 4) ND = Indicates all compounds were below the reporting limit shown (non-detect).

Table 3
Summary of Laboratory Analyses Results in Sediment Samples - Maritime Gloucester

Location ID	Units	A	A	B	C	C	D	D	E	E	MR-8	MR-9	MR-10	C2	C2
Sample Name		A (0-6")	A (2-2.5')	B (0-6")	C (0-6")	C (9-12")	D (0-6")	D (1.5-2')	E (0-6")	E (1.0-1.5')	MR-8-S1	MR-9-S1	MR-10-S1	C2 (3.0'-3.5')	FD020712
Date Collected		6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	7-Feb-12	7-Feb-12	7-Feb-12	7-Feb-12	7-Feb-12
Sample Depth (feet)		0.0 - 0.5	2.0 - 2.5	0.0 - 0.5	0.0 - 0.5	0.75 - 1.0	0.0 - 0.5	1.5 - 2.0	0.0 - 0.5	1.0 - 1.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	3.0 - 3.5	Unknown
Polycyclic Aromatic Hydrocarbons															
2-Methylnaphthalene	mg/kg	0.251	0.0138 U	0.0985	0.0392	0.422	0.186	0.00839 U	0.256	0.957	NA	NA	NA	0.00827 U	0.00886 U
Acenaphthene	mg/kg	0.256	0.0138 U	0.259	0.0536	0.5	0.247	0.00839 U	0.389	1.38	NA	NA	NA	0.00827 U	0.00886 U
Acenaphthylene	mg/kg	0.416	0.0138 U	0.331	0.222	2.5	1	0.00839 U	0.966	4.77	NA	NA	NA	0.00827 U	0.00886 U
Anthracene	mg/kg	1.53	0.0138 U	0.516	0.203	2.1	1.12	0.00839 U	0.991	9.85	NA	NA	NA	0.00827 U	0.00886 U
Benzo(a)anthracene	mg/kg	4.29	0.0138 U	2.24	0.826	9.8	3.18	0.0107	3.05	21.4	NA	NA	NA	0.00827 U	0.00886 U
Benzo(a)pyrene	mg/kg	3.82	0.0138 U	1.9	0.765	8.63	3.22	0.0118	2.69	20.4	NA	NA	NA	0.00827 U	0.00886 U
Benzo(b)fluoranthene	mg/kg	3.79	0.0138 U	1.89	0.626	5.35	2.14	0.00839 U	2.24	15.6	NA	NA	NA	0.00827 U	0.00886 U
Benzo(ghi)perylene	mg/kg	1.91	0.0138 U	1.01	0.374	3.42	1.4	0.00839 U	1.19	10.3	NA	NA	NA	0.00827 U	0.00886 U
Benzo(k)fluoranthene	mg/kg	2.7	0.0138 U	1.28	0.5	5.7	2.16	0.00839 U	1.58	12.7	NA	NA	NA	0.00827 U	0.00886 U
Chrysene	mg/kg	3.01	0.0138 U	1.8	0.807	9.21	2.76	0.00905	2.48	19.5	NA	NA	NA	0.00827 U	0.00886 U
Dibenz(a,h)anthracene	mg/kg	0.596	0.0138 U	0.273	0.109	1.09	0.43	0.00839 U	0.362	2.39	NA	NA	NA	0.00827 U	0.00886 U
Fluoranthene	mg/kg	5.33	0.0138 U	3.89	1.1	9.33	3.78	0.00839 U	4.68	43.1	NA	NA	NA	0.00827 U	0.00886 U
Fluorene	mg/kg	0.349	0.0138 U	0.334	0.085	0.424	0.446	0.00839 U	0.23	1.92	NA	NA	NA	0.00827 U	0.00886 U
Indeno(1,2,3-cd)Pyrene	mg/kg	2.25	0.0138 U	1.06	0.391	3.69	1.56	0.00839 U	1.25	10.6	NA	NA	NA	0.00827 U	0.00886 U
Naphthalene	mg/kg	0.904	0.0232	0.232	0.0859	0.622	0.328	0.00839 U	0.436	1.87	NA	NA	NA	0.00827 U	0.00886 U
Phenanthrene	mg/kg	2.62	0.0138 U	2.66	0.339	2.76	2.36	0.00839 U	1.82	21.4	NA	NA	NA	0.00827 U	0.00886 U
Pyrene	mg/kg	7.08	0.0138 U	4.21	1.32	13.5	5.5	0.0162	5.35	41.3	NA	NA	NA	0.00827 U	0.0112
Total PAHs	mg/kg	40.9	0.1267	23.9	7.8	78.6	32	0.981	29.70	238.5	NA	NA	NA	ND	0.0777
PCB Congeners															
Cl10-BZ#209	mg/kg	0.00123 U	0.00144 U	0.000908 U	0.00105 U	0.0024	0.00178	0.000875 U	0.0018	0.00483	0.00458	0.00192	0.0047	0.000873 U	0.00083 U
Cl2-BZ#8	mg/kg	0.00123 U	0.00144 U	0.000908 U	0.00105 U	0.00104 U	0.000799 U	0.000875 U	0.0015 U	0.00135 U	0.00101 U	0.000887 U	0.00134 U	0.000873 U	0.00083 U
Cl3-BZ#18	mg/kg	0.00123 U	0.00144 U	0.0147	0.00916	0.00104 U	0.000799 U	0.000875 U	0.0015 U	0.00135 U	0.00101 U	0.000887 U	0.0182	0.000873 U	0.00083 U
Cl3-BZ#28	mg/kg	0.00123 U	0.00144 U	0.0313	0.0231	0.00104 U	0.000799 U	0.000875 U	0.0015 U	0.00135 U	0.00101 U	0.000887 U	0.0362	0.000873 U	0.00083 U
Cl4-BZ#44	mg/kg	0.0111	0.00144 U	0.0565	0.0303	0.0391	0.00795	0.000875 U	0.0161	0.00135 U	0.0278	0.00945	0.0505	0.000873 U	0.00083 U
Cl4-BZ#49	mg/kg	0.0071	0.00144 U	0.0365	0.0182	0.0199	0.00269	0.000875 U	0.00428	0.00135 U	0.00676	0.00373	0.0234	0.000873 U	0.00083 U
Cl4-BZ#52	mg/kg	0.0134	0.00144 U	0.0672	0.0372	0.0771	0.0273	0.000875 U	0.0528	0.00135 U	0.0386	0.0269	0.0832	0.000873 U	0.00083 U
Cl4-BZ#66	mg/kg	0.0059	0.00144 U	0.0276	0.0143	0.0185	0.00225	0.000875 U	0.00526	0.00135 U	0.00733	0.00429	0.0175	0.000873 U	0.00083 U
Cl5-BZ#101	mg/kg	0.0116	0.00144 U	0.0517	0.0263	0.0693	0.0186	0.000875 U	0.051	0.0034	0.0373	0.0289	0.0904	0.000873 U	0.00083 U
Cl5-BZ#105	mg/kg	0.00386	0.00144 U	0.0191	0.0102	0.0145	0.00486	0.000875 U	0.0138	0.00135 U	0.0134	0.00926	0.0175	0.000873 U	0.00083 U
Cl5-BZ#118	mg/kg	0.00664	0.00144 U	0.0294	0.0144	0.0329	0.0144	0.000875 U	0.0402	0.00526	0.0224	0.0216	0.0485	0.000873 U	0.00083 U
Cl5-BZ#87	mg/kg	0.0045	0.00144 U	0.019	0.00808	0.0135	0.00548	0.000875 U	0.0168	0.00135 U	0.0118	0.00967	0.022	0.000873 U	0.00083 U
Cl6-BZ#128	mg/kg	0.00123 U	0.00144 U	0.00409	0.00187	0.00726	0.00268	0.000875 U	0.00915	0.00135 U	0.00624	0.00499	0.0144	0.000873 U	0.00083 U
Cl6-BZ#138	mg/kg	0.0111	0.00144 U	0.0264	0.0155	0.0714	0.0251	0.000875 U	0.0551	0.00813	0.0409	0.0318	0.166	0.000873 U	0.00083 U
Cl6-BZ#153	mg/kg	0.00652	0.00144 U	0.0175	0.0115	0.0573	0.0194	0.000875 U	0.0351	0.00512	0.0283	0.0221	0.178	0.000873 U	0.00083 U
Cl7-BZ#170	mg/kg	0.00381	0.00144 U	0.00828	0.00527	0.0296	0.00619	0.000875 U	0.0119	0.00205	0.0122	0.00626	0.0791	0.000873 U	0.00083 U
Cl7-BZ#180	mg/kg	0.00831	0.00144 U	0.015	0.0107	0.0573	0.0174	0.000875 U	0.0226	0.0032	0.0218	0.0154	0.276	0.000873 U	0.00083 U
Cl7-BZ#183	mg/kg	0.00136	0.00144 U	0.00285	0.00176	0.0118	0.00355	0.000875 U	0.00464	0.00135 U	0.00482	0.00344	0.0514	0.000873 U	0.00083 U
Cl7-BZ#184	mg/kg	0.00123 U	0.00144 U	0.000908 U	0.00105 U	0.00104 U	0.000799 U	0.000875 U	0.0015 U	0.00135 U	0.00101 U	0.000887 U	0.00134 U	0.000873 U	0.00083 U
Cl7-BZ#187	mg/kg	0.00488	0.00144 U	0.00933	0.00635	0.0376	0.0112	0.000875 U	0.013	0.00193	0.0151	0.0133	0.192	0.000873 U	0.00083 U
Cl8-BZ#195	mg/kg	0.00123 U	0.00144 U	0.000985	0.00165	0.00713	0.00203	0.000875 U	0.00285	0.00135 U	0.0027	0.00217	0.022	0.000873 U	0.00083 U
Cl9-BZ#206	mg/kg	0.00123 U	0.00144 U	0.000916	0.00136	0.00552	0.00247	0.000875 U	0.00331	0.00515	0.00303	0.00412	0.0384	0.000873 U	0.00083 U

**Table 3
Summary of Laboratory Analyses Results in Sediment Samples - Maritime Gloucester**

Location ID		A	A	B	C	C	D	D	E	E	MR-8	MR-9	MR-10	C2	C2
Sample Name		A (0-6")	A (2-2.5')	B (0-6")	C (0-6")	C (9-12")	D (0-6")	D (1.5-2')	E (0-6")	E (1.0-1.5')	MR-8-S1	MR-9-S1	MR-10-S1	C2 (3.0'-3.5')	FD020712
Date Collected		6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	6-Feb-12	7-Feb-12	7-Feb-12	7-Feb-12	7-Feb-12	7-Feb-12
Sample Depth (feet)	Units	0.0 - 0.5	2.0 - 2.5	0.0 - 0.5	0.0 - 0.5	0.75 - 1.0	0.0 - 0.5	1.5 - 2.0	0.0 - 0.5	1.0 - 1.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	3.0 - 3.5	Unknown
Miscellaneous															
Solids, Total	%	55.6	51.9	77.4	70.2	36.8	47.7	83.9	50	54.5	36.9	43.6	54.9	83.8	82.5
Total Organic Carbon															
Total Organic Carbon (Rep1)	%	4.58	2.44	2.22	3.92	6.03	2.43	0.127	3.53	5.53	NA	NA	NA	0.096	0.138
Total Organic Carbon (Rep2)	%	4.05	2.33	2.52	4.3	5.88	2.43	0.126	3.61	4.83	NA	NA	NA	0.092	0.139
Metals															
Arsenic, Total	mg/kg	180	7.23	12	11	56.4	21.5	11.3	29.4	20.6	34.2	34.1	31.8	11.2	9.56
Copper, Total	mg/kg	4450	205	2920	1260	4980	378	16.1	792	496	1600	766	983	15.6	14.1
Lead, Total	mg/kg	7910	204	480	184	615	553	12.5	4710	2140	426	808	644	11.3	10.8
Mercury, Total	mg/kg	2.35	0.039	1.14	0.755	2.16	0.892	0.003	1.14	1.46	2.95	1.11	2.03	0.004 U	0.004 U
Zinc, Total	mg/kg	719	92.5	1110	453	2730	488	85.8	1490	1290	831	867	1150	96.5	90.5
Chromium, Hexavalent	mg/kg	1.4 U	1.5 U	1 U	1.1 U	2.2 U	1.7 U	0.95 U	1.6 U	1.5 U	2.2 U	1.8 U	1.4 U	0.95 U	0.97 U


Notes:

- 1) Samples were collected by TG&B Marine Services, Inc. (TG&B) and processed by a representative of Anchor QEA, LLC (Anchor QEA) and Environmental Partners Group, Inc. (EPG) on February 6 and 7, 2012.
- 2) Samples were submitted by EPG to Alpha Analytical Laboratory for analysis on behalf of Maritime Gloucester. A copy of the results were provided to National Grid on March 28, 2012.
- 3) "Total PAHs" was calculated by Anchor QEA as the sum of detected values and one half the detection limit.
- 4) U = Indicates compound was analyzed for, but not detected at or above the reporting limit
- 5) ND = Indicates all compounds were below the reporting limit shown (non-detect).
- 6) NA = Indicates a sample was not submitted for analysis.

Date Start/Finish: February 6, 2012 Drilling Company: TG&B Marine Services, Inc. Driller's Name: C. Perry and L. Perry Drilling Method: Vibracore Penetration: 5.0 ft	Latitude: 42 36.6728 Longitude: -70 39.5128 Water Depth: 9.3 ft Mudline Elevation: -1.1 ft Recovery: 3.4 ft Scientist: B. Thibault	Core ID: A Client: Maritime Gloucester Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
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Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1						
0	-1	0.0 - 0.5	0.0			Silt (OL); little fine sand, organics, and shells; trace wood and medium sand; soft; black; nonplastic; no apparent odor; no apparent sheen or visible oil/tar.
1	-2			0.7		Sand (SM); medium grained; some silt; trace shells; piece of coal at 0.7 ft; very dark grayish brown; no apparent sheen or visible oil/tar.
2	-3			1.1		Silt (OL); homogeneous; some shells from 1.1 - 2.0 ft; little wood from 1.1 - 2.0 ft; trace shells and organics; grain size coarsens with depth - fine grained sandy silt, little to trace medium sand at base of core; soft; dark grayish brown from 1.1 - 2.0 ft, brown from 2.0 - 3.4 ft; nonplastic; no apparent sheen or visible oil/tar.
3	-4	2.3 - 2.6	0.0			
4	-5					
5	-6					
6	-7					
7	-8					
8	-9					
9	-10					
10	-11					

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid Sediment samples collected by Environmental Partners Group, Inc. Sample collected from 0.0 - 0.5 ft and sample collected from 2.3 - 2.6 ft.
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Date Start/Finish: February 6, 2012 Drilling Company: TG&B Marine Services, Inc. Driller's Name: C. Perry and L. Perry Drilling Method: Vibracore Penetration: 2.5 ft	Latitude: 42 36.6780 Longitude: -70 39.5070 Water Depth: 8.9 ft Mudline Elevation: -1.9 ft Recovery: 1.1 ft Scientist: B. Thibault	Core ID: B Client: Maritime Gloucester Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
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Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1	-1					
0	-2	0.0 - 0.5	0.0		•••••	Sand (SW); fine to coarse grained; little shells and organics; thin layer of black silt on surface; black; loose; no apparent sheen or visible oil/tar.
1	-3					Core encountered refusal 2.5 ft below mudline.
2	-4					
3	-5					
4	-6					
5	-7					
6	-8					
7	-9					
8	-10					
9	-11					
10						

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid Sediment samples collected by Environmental Partners Group, Inc. Sample collected from 0.0 - 0.5 ft. Field note: TG&B representatives commented that the sand looked like "black beauty" - sandblasting material.
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Date Start/Finish: February 6, 2012 Drilling Company: TG&B Marine Services, Inc. Driller's Name: C. Perry and L. Perry Drilling Method: Vibracore Penetration: 2.5 ft	Latitude: 42 36.6780 Longitude: -70 39.5070 Water Depth: 8.0 ft Mudline Elevation: -1.0 ft Recovery: 1.0 ft Scientist: B. Thibault	Core ID: B2 Client: Maritime Gloucester Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
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Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1	0					
0	1				•••••	Sand (SW); fine to coarse grained; little shells and organics; black; loose; no apparent sheen or visible oil/tar.
1	2					Core encountered refusal at 2.5 ft below mudline.
2	3					
3	4					
4	5					
5	6					
6	7					
7	8					
8	9					
9	10					
10	11					

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid Field note: TG&B representatives commented that the sand looked like "black beauty" - sandblasting material.
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Date Start/Finish: February 6, 2012 Drilling Company: TG&B Marine Services, Inc. Driller's Name: C. Perry and L. Perry Drilling Method: Vibracore Penetration: 5.0 ft	Latitude: 42 36.6769 Longitude: -70 39.5031 Water Depth: 9.8 ft Mudline Elevation: -2.9 ft Recovery: 1.3 ft Scientist: B. Thibault	Core ID: C Client: Maritime Gloucester Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
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Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1	-2					
0	-3	0.0 - 0.5	0.0	0.8		Sand (SW); fine to coarse grained; some silt; little organics; trace shells, glass, and bone; amount of organics increase toward base of unit; soft; black; hydrogen sulfide odor; no apparent sheen or visible oil/tar.
1	-4	0.75 - 1.0	0.0			Silt and Organics (OL); homogeneous; soft; black; nonplastic; hydrogen sulfide odor; no apparent sheen or visible oil/tar.
2	-5					
3	-6					
4	-7					
5	-8					
6	-9					
7	-10					
8	-11					
9	-12					
10						

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid Sediment samples collected by Environmental Partners Group, Inc. Sample collected from 0.0 - 0.5 ft and sample collected from 0.75 - 1.0 ft. Field note: TG&B representatives commented that the sand looked like "black beauty" - sandblasting material.
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Date Start/Finish: February 7, 2012 Drilling Company: TG&B Marine Services, Inc. Driller's Name: C. Perry and L. Perry Drilling Method: Vibracore Penetration: 8.0 ft	Latitude: 42 36.6766 Longitude: -70 39.5032 Water Depth: 13.1 ft Mudline Elevation: -3.1 ft Recovery: 3.5 ft Scientist: B. Thibault	Core ID: C2 Client: Maritime Gloucester Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
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Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1						
0	-3					Silt (OL); little organics and fine to coarse sand; little to trace shells; pieces of wood from 1.7 - 1.9 ft; soft; black; nonplastic; spot of rainbow sheen at 1.05 ft; no apparent visible oil/tar. Relatively sharp contact with underlying unit.
1	-4					
2	-5					
3	-6			2.5		Clay (CL); homogeneous; trace fine sand; firm; gray; plastic; no apparent odor; no apparent sheen or visible oil/tar.
				2.8		Silty Clay (CL); fine to coarse sand layer at interface; gray inclusions; dragged down line and thin rubber hose; very firm; tan; slight plasticity; no apparent odor; no apparent sheen or visible oil/tar.
4	-7					
5	-8					
6	-9					
7	-10					
8	-11					
9	-12					
10	-13					

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid
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Date Start/Finish: February 6, 2012 Drilling Company: TG&B Marine Services, Inc. Driller's Name: C. Perry and L. Perry Drilling Method: Vibracore Penetration: 4.0 ft	Latitude: 42 36.6677 Longitude: -70 39.4947 Water Depth: 15.1 ft Mudline Elevation: -7.3 ft Recovery: 2.2 ft Scientist: B. Thibault	Core ID: D Client: Maritime Gloucester Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
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Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1						
-7						
0		0.0 - 0.5	0.0	0.25		Silt (OL); some fine to medium sand; trace shells; piece of gravel at 0.2 ft; soft; black; nonplastic; no apparent sheen or visible oil/tar.
-8				0.9		Clay (CL); small inclusions of fine sand; fine to coarse sand at interface with underlying unit; firm; gray; plastic; no apparent sheen or visible oil/tar.
1						Clay (CL); some silt; trace inclusions of gray clay; root-like structures from 1.7 - 2.2 ft; very firm; tan; low plasticity; no apparent sheen or visible oil/tar.
-9		1.5 - 2.0	0.0			
2						
-10						
3						
-11						
4						
-12						
5						
-13						
6						
-14						
7						
-15						
8						
-16						
9						
-17						
10						

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid Sediment samples collected by Environmental Partners Group, Inc. Sample collected from 0.0 - 0.5 ft and sample collected from 1.5 - 2.0 ft.
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Date Start/Finish: February 6, 2012 Drilling Company: TG&B Marine Services, Inc. Driller's Name: C. Perry and L. Perry Drilling Method: Vibracore Penetration: 4.0 ft	Latitude: 42 36.6609 Longitude: -70 39.4886 Water Depth: 13.1 ft Mudline Elevation: -9.4 ft Recovery: 1.7 ft Scientist: B. Thibault	Core ID: E Client: Maritime Gloucester Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
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Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1						
-9						
0		0.0 - 0.5	0.0			Silt (OL); some to little wood, fine to medium gravel, and shells; very soft from 0.0 - 0.2 ft and soft from 0.2 - 1.7 ft; black; nonplastic; trace sheen on core liner; no apparent visible oil/tar.
-10						
1		1.0 - 1.5	1.0			
-11						
2						
-12						
3						
-13						
4						
-14						
5						
-15						
6						
-16						
7						
-17						
8						
-18						
9						
-19						
10						

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid Sediment samples collected by Environmental Partners Group, Inc. Sample collected from 0.0 - 0.5 ft and sample collected from 1.0 - 1.5 ft. Six attempts made at location E2 and penetration ranged from 1.0 - 2.0 ft below mudline due to obstructions. Little to no sediment recovery.
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Date Start/Finish: February 7, 2012 Drilling Company: TG&B Marine Services, Inc. Driller's Name: C. Perry and L. Perry Drilling Method: Vibracore Penetration: 3.5 ft	Latitude: 42 36.6698 Longitude: -70 39.5000 Water Depth: 17.5 ft Mudline Elevation: -8.6 ft Recovery: 0.6 ft Scientist: B. Thibault	Core ID: MR8 Client: National Grid Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
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Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1	-7					
0	-8	MR8-S1	0.0			Silt and Gravel (GM); some fine to medium sand; trace organics and wood; very soft; black; nonplastic; hydrogen sulfide odor; trace spots of sheen; no apparent visible oil/tar.
1	-9					
2	-10					
3	-11					
4	-12					
5	-13					
6	-14					
7	-15					
8	-16					
9	-17					
10						

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid MR8-S1 (0.0 - 0.5 ft) - Analyzed for PAH and TOC.
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Date Start/Finish: February 7, 2012 Drilling Company: TG&B Marine Services, Inc. Driller's Name: C. Perry and L. Perry Drilling Method: Vibracore Penetration: 5.0 ft	Latitude: 42 36.6618 Longitude: -70 39.4920 Water Depth: 16.0 ft Mudline Elevation: -7.8 ft Recovery: 1.2 ft Scientist: B. Thibault	Core ID: MR9 Client: National Grid Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
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Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1	-7					
0	-8	MR9-S1	0.0			Silt and Gravel (GM); some fine to medium sand; little shells at 1.1 ft; trace organics and wood; very soft to soft; black; nonplastic; no apparent sheen or visible oil/tar.
1	-9					
2	-10					
3	-11					
4	-12					
5	-13					
6	-14					
7	-15					
8	-16					
9	-17					
10						

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid MR9-S1 (0.0 - 0.5 ft) - Analyzed for PAH and TOC.
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Date Start/Finish: February 7, 2012	Latitude: 42 36.6575	Core ID: MR10
Drilling Company: TG&B Marine Services, Inc.	Longitude: -70 39.4895	Client: National Grid
Driller's Name: C. Perry and L. Perry	Water Depth: 15.8 ft	Location: Former Gloucester MGP Site
Drilling Method: Vibracore	Mudline Elevation: -9.8 ft	Harbor Loop
Penetration: 2.9 ft	Recovery: 1.0 ft	Gloucester, MA
	Scientist: B. Thibault	

Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1	-9					
0	-10	MR10-S1	0.0			Silt and Gravel (GM); some fine to medium sand; trace organics; piece of slag at 1.0 ft; very soft to soft; black; nonplastic; trace spots of sheen; no apparent visible oil/tar.
1	-11					Core encountered refusal at 2.9 ft below mudline.
2	-12					
3	-13					
4	-14					
5	-15					
6	-16					
7	-17					
8	-18					
9	-19					
10						

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid MR10-S1 (0.0 - 0.5 ft) - Analyzed for PAH and TOC.
--	--

Date Start/Finish: February 7, 2012 Drilling Company: TG&B Marine Services, Inc. Driller's Name: C. Perry and L. Perry Drilling Method: Vibracore Penetration: 5.0 ft	Latitude: 42 36.6501 Longitude: -70 39.4845 Water Depth: 15.9 ft Mudline Elevation: -10.5 ft Recovery: 3.0 ft Scientist: B. Thibault	Core ID: MR11 Client: National Grid Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
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Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1						
-10						
0						
-11		MR11-S1	0.0	1.0		Silt (OL); some to little shells and gravel; little organics; soft; black; nonplastic; trace spots of sheen from 0.6 - 0.9 ft; no apparent visible oil/tar.
-12		MR11-S3	0.0			Silt (OL); homogeneous; some mixing with overlying black silt unit from 1.0 - 1.4 ft; soft; grayish brown; low plasticity; hydrogen sulfide odor; no apparent sheen or visible oil/tar.
-13						
-14						
-15						
-16						
-17						
-18						
-19						
-20						
10						

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid
	MR11-S1 (0.0 - 0.5 ft) - Analyzed for PAH and TOC. MR11-S3 (1.0 - 1.5 ft) - Analyzed for PAH and TOC. MR11-S6 (2.5 - 3.0 ft) - Analyzed for PAH and TOC.

Date Start/Finish: February 6, 2012	Latitude: 42 36.6590	Core ID: MR12
Drilling Company: TG&B Marine Services, Inc.	Longitude: -70 39.5170	Client: National Grid
Driller's Name: C. Perry and L. Perry	Water Depth: 9.9 ft	Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
Drilling Method: Push Core	Mudline Elevation: -0.6 ft	
Penetration: 5.0 ft	Recovery: 3.8 ft	
	Scientist: B. Thibault	

Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1						
0						
-1		MR12-S1	0.0	0.7		Fine Sand (SM); some silt; little to trace shells and fine gravel; black; slight coal tar odor; silver sheen and droplets of NAPL from 0.4 - 0.7 ft.
1						Silt (OL); some wood, glass, pottery, shells, and clinkers; little organics; soft; black to dark grayish brown; nonplastic; coal tar odor; droplets of NAPL from 0.7 - 1.25 ft.
-2						
-3		MR12-S5	6.5	2.2		Silt (OL); trace organics and shells, amount of shells decreases with depth; soft; grayish brown; nonplastic; hydrogen sulfide odor; no apparent sheen or visible oil/tar.
-4		MR12-S7/Dup1	8.2			
-5						
-6						
-7						
-8						
-9						
-10						

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid PAH: polycyclic aromatic hydrocarbons TOC: total organic carbon
	MR12-S1 (0.0 - 0.5 ft) - Analyzed for PAH and TOC. MR12-S5 (2.0 - 2.5 ft) - Analyzed for PAH and TOC. MR12-S7 and Dup1 (3.0 - 3.5 ft) - Analyzed for PAH and TOC.

Date Start/Finish: February 6, 2012	Latitude: 42 36.6540	Core ID: MR13
Drilling Company: TG&B Marine Services, Inc.	Longitude: -70 39.5110	Client: National Grid
Driller's Name: C. Perry and L. Perry	Water Depth: 11.9 ft	Location: Former Gloucester MGP Site Harbor Loop Gloucester, MA
Drilling Method: Push Core	Mudline Elevation: -2.6 ft	
Penetration: 5.0 ft	Recovery: 2.7 ft	
	Scientist: B. Thibault	

Depth (ft)	Elevation (ft)	Sample ID (see Remarks)	Headspace (ppm)	Depth to Interface (ft)	Geologic Column	Stratigraphic Description
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-1						
-2						
0						
-3		MR13-S1	0.0	1.3		Silt (OL); some to little wood; little fine sand; little to trace organics; soft; black; hydrogen sulfide odor; no apparent sheen or visible oil/tar.
-4						Silt (OL); homogeneous; trace organics; soft; grayish brown; nonplastic; hydrogen sulfide odor; droplet of brown NAPL with sheen in liner, no apparent NAPL in sediment.
-5		MR13-S5	0.0			
3						
-6						
-4						
-7						
-5						
-8						
-6						
-9						
-7						
-10						
-8						
-11						
-9						
-12						
10						

	Remarks: ppm: parts per million NAPL: non-aqueous phase liquid PAH: polycyclic aromatic hydrocarbons TOC: total organic carbon
	MR13-S1 (0.0 - 0.5 ft) - Analyzed for PAH and TOC. MR13-S5 (2.0 - 2.5 ft) - Analyzed for PAH and TOC.



ANALYTICAL REPORT

Lab Number:	L1202275
Client:	Anchor QEA, LLC 500 Cummings Center Suite 3470 Beverly, MA 01915
ATTN:	Billie-Jo Thibault
Phone:	(818) 422-4820
Project Name:	GLOUCESTER MGP
Project Number:	GLOUCESTER MGP
Report Date:	03/02/12

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Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

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Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1202275-01	MR-12-S1	GLOUCESTER, MA	02/06/12 11:00
L1202275-02	MR-12-S5	GLOUCESTER, MA	02/06/12 11:00
L1202275-03	MR-12-S7	GLOUCESTER, MA	02/06/12 11:00
L1202275-04	MR-13-S1	GLOUCESTER, MA	02/06/12 11:35
L1202275-05	MR-13-S5	GLOUCESTER, MA	02/06/12 11:35
L1202275-06	MR-14-S1	GLOUCESTER, MA	02/06/12 12:00
L1202275-07	MR-14-S6	GLOUCESTER, MA	02/06/12 12:00
L1202275-08	020612-DUP1	GLOUCESTER, MA	02/06/12 00:00
L1202275-09	MR-11-S1	GLOUCESTER, MA	02/07/12 08:10
L1202275-10	MR-11-S3	GLOUCESTER, MA	02/07/12 08:10
L1202275-11	MR-11-S6	GLOUCESTER, MA	02/07/12 08:10
L1202275-12	MR-10-S1	GLOUCESTER, MA	02/07/12 08:55
L1202275-13	MR-9-S1	GLOUCESTER, MA	02/07/12 09:25
L1202275-14	MR-8-S1	GLOUCESTER, MA	02/07/12 09:50
L1202275-15	RB1	GLOUCESTER, MA	02/07/12 11:57
L1202275-16	SAWC-1	GLOUCESTER, MA	02/06/12 16:30
L1202275-17	TRIP BLANK1	GLOUCESTER, MA	01/24/12 00:00

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

VOC 8260

The continuing calibration standard, associated with L1202275-16,17, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

The initial calibration, associated with L1202275-16,17, did not meet the method required minimum response factors on the lowest calibration standards for 1,4-Dioxane (0.00351), as well as the average response factor for 1,4-Dioxane. In addition, a quadratic fit was utilized for Bromomethane.

The continuing calibration standard, associated with L1202275-16, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Case Narrative (continued)

standard is included as an addendum to this report.

The WG519420-2 LCS/LCSD recoveries, associated with L1202275-16,17, are below the acceptance criteria for Dichlorodifluoromethane (69%); however, they have been identified as "difficult" analytes and are within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG519420-4 LCS/LCSD recoveries, associated with L1202275-16, are below the acceptance criteria for Dichlorodifluoromethane (65%); however, they have been identified as "difficult" analytes and are within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG519420-4 LCS/LCSD recoveries, associated with L1202275-16, are above the individual acceptance criteria for Trichlorofluoromethane (136%), but within the overall method allowances. The results of the associated samples are reported; however, all positive detects are considered to have a potentially high bias for these compounds.

The WG519420-4 LCS recovery, associated with L1202275-16, is above the individual acceptance criteria for Trichlorofluoromethane (136%), but within the overall method allowances. The results of the associated samples are reported; however, all positive detects are considered to have a potentially high bias for this compound.

The WG519420-4/-5 LCS/LCSD recoveries, associated with L1202275-16, are below the acceptance criteria for Dichlorodifluoromethane (65%/62%); however, it has been identified as a "difficult" analyte and is within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

The initial calibration, associated with L1202275-16, did not meet the method required minimum response

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Case Narrative (continued)

factors on the lowest calibration standard for Bromomethane (0.09494), Chloroethane (0.08468), Trichloroethene (0.13458), Bromodichloromethane (0.16993), cis-1,3-Dichloropropene (0.16414), 4-Methyl-2-pentanone (0.09270), and O-xylene (0.29557), as well as the average response factors for Bromomethane, Chloroethane Trichloroethane, Bromodichloromethane, and cis-1,3-Dichloropropene.

L1202275-16: The internal standard (IS) response(s) for 1,4-Dichlorobenzene (27%) were below the acceptance criteria; however, re-analysis achieved similar results 1,4-Dichlorobenzene (47%). The results of both analyses are reported; however, since the IS response was below method criteria (but not <20% of applicable calibration standard area counts), all associated compounds are considered to have a potentially high bias.

The surrogate recoveries for L1202275-16 were above the acceptance criteria for 4-Bromofluorobenzene (162%). All associated compounds are considered to have a potentially high bias.

SVOC 8270C

The WG518904-2 LCS/LCSD recoveries, associated with L1202275-16, are below the individual acceptance criteria for Aniline (34%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG518904-3 LCS/LCSD recoveries, associated with L1202275-16, are below the individual acceptance criteria for Aniline (23%), 4-Chloroaniline (34%), 2,4-dinitrophenol(26%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG518904-3 LCS/LCSD RPD(s), associated with L1202275-16, are above the acceptance criteria for 3,3'-Dichlorobenzidine (33%), Butyl Benzyl Phthalate (32%), Aniline (39%), 4-Chloroaniline (32%), Pentachlorophenol (32%).

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
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Case Narrative (continued)

PAH 8270-SIM

L1202275-02, 04, 06, and 09 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Total Organic Carbon

The WG518237-1 Method Blank, associated with L1202275 , has a concentration above the reporting limit for Total Organic Carbon. Since the associated sample concentrations are greater than 5x the blank concentration for this analyte, no qualification of the results was performed.

WG520732: A laboratory matrix spike could not be performed due to insufficient sample volume available for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Peter Henriksen

Title: Technical Director/Representative

Date: 03/02/12

SEMIVOLATILES

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-01
 Client ID: MR-12-S1
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 02/27/12 22:29
 Analyst: CM
 Percent Solids: 68%

Date Collected: 02/06/12 11:00
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	1100		ug/kg	10.2	--	1
2-Methylnaphthalene	466		ug/kg	10.2	--	1
Acenaphthylene	2950		ug/kg	10.2	--	1
Acenaphthene	528		ug/kg	10.2	--	1
Fluorene	535		ug/kg	10.2	--	1
Phenanthrene	4480		ug/kg	10.2	--	1
Anthracene	1780		ug/kg	10.2	--	1
Fluoranthene	6940		ug/kg	10.2	--	1
Pyrene	9980		ug/kg	10.2	--	1
Benz(a)anthracene	6210		ug/kg	10.2	--	1
Chrysene	4260		ug/kg	10.2	--	1
Benzo(b)fluoranthene	5000		ug/kg	10.2	--	1
Benzo(k)fluoranthene	2820		ug/kg	10.2	--	1
Benzo(a)pyrene	6150		ug/kg	10.2	--	1
Indeno(1,2,3-cd)Pyrene	2860		ug/kg	10.2	--	1
Dibenz(a,h)anthracene	820		ug/kg	10.2	--	1
Benzo(ghi)perylene	2660		ug/kg	10.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	86		30-130
Pyrene-d10	75		30-130
Benzo(b)fluoranthene-d12	79		30-130

Project Name: GLOUCESTER MGP**Lab Number:** L1202275**Project Number:** GLOUCESTER MGP**Report Date:** 03/02/12**SAMPLE RESULTS**

Lab ID: L1202275-02
 Client ID: MR-12-S5
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 03/01/12 13:05
 Analyst: CM
 Percent Solids: 49%

Date Collected: 02/06/12 11:00
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	4000		ug/kg	79.4	--	10
2-Methylnaphthalene	520		ug/kg	79.4	--	10
Acenaphthylene	836		ug/kg	79.4	--	10
Acenaphthene	2620		ug/kg	79.4	--	10
Fluorene	6680		ug/kg	79.4	--	10
Phenanthrene	33500		ug/kg	79.4	--	10
Anthracene	27100		ug/kg	79.4	--	10
Fluoranthene	46200		ug/kg	79.4	--	10
Pyrene	34700		ug/kg	79.4	--	10
Benz(a)anthracene	29400		ug/kg	79.4	--	10
Chrysene	25000		ug/kg	79.4	--	10
Benzo(b)fluoranthene	11300		ug/kg	79.4	--	10
Benzo(k)fluoranthene	15600		ug/kg	79.4	--	10
Benzo(a)pyrene	17800		ug/kg	79.4	--	10
Indeno(1,2,3-cd)Pyrene	6420		ug/kg	79.4	--	10
Dibenz(a,h)anthracene	2350		ug/kg	79.4	--	10
Benzo(ghi)perylene	5190		ug/kg	79.4	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	71		30-130
Pyrene-d10	70		30-130
Benzo(b)fluoranthene-d12	68		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-03
 Client ID: MR-12-S7
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 02/27/12 19:50
 Analyst: CM
 Percent Solids: 57%

Date Collected: 02/06/12 11:00
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	1250		ug/kg	12.3	--	1
2-Methylnaphthalene	16.0		ug/kg	12.3	--	1
Acenaphthylene	18.7		ug/kg	12.3	--	1
Acenaphthene	73.0		ug/kg	12.3	--	1
Fluorene	92.3		ug/kg	12.3	--	1
Phenanthrene	184		ug/kg	12.3	--	1
Anthracene	350		ug/kg	12.3	--	1
Fluoranthene	862		ug/kg	12.3	--	1
Pyrene	688		ug/kg	12.3	--	1
Benz(a)anthracene	541		ug/kg	12.3	--	1
Chrysene	390		ug/kg	12.3	--	1
Benzo(b)fluoranthene	228		ug/kg	12.3	--	1
Benzo(k)fluoranthene	228		ug/kg	12.3	--	1
Benzo(a)pyrene	291		ug/kg	12.3	--	1
Indeno(1,2,3-cd)Pyrene	105		ug/kg	12.3	--	1
Dibenz(a,h)anthracene	42.6		ug/kg	12.3	--	1
Benzo(ghi)perylene	96.8		ug/kg	12.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	81		30-130
Pyrene-d10	75		30-130
Benzo(b)fluoranthene-d12	79		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-04
 Client ID: MR-13-S1
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 03/01/12 14:09
 Analyst: CM
 Percent Solids: 54%

Date Collected: 02/06/12 11:35
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	7520		ug/kg	139	--	10
2-Methylnaphthalene	2550		ug/kg	139	--	10
Acenaphthylene	19100		ug/kg	139	--	10
Acenaphthene	2130		ug/kg	139	--	10
Fluorene	2270		ug/kg	139	--	10
Phenanthrene	7650		ug/kg	139	--	10
Anthracene	16400		ug/kg	139	--	10
Fluoranthene	29900		ug/kg	139	--	10
Pyrene	96800		ug/kg	139	--	10
Benz(a)anthracene	48300		ug/kg	139	--	10
Chrysene	37100		ug/kg	139	--	10
Benzo(b)fluoranthene	21500		ug/kg	139	--	10
Benzo(k)fluoranthene	26600		ug/kg	139	--	10
Benzo(a)pyrene	41600		ug/kg	139	--	10
Indeno(1,2,3-cd)Pyrene	16200		ug/kg	139	--	10
Dibenz(a,h)anthracene	4610		ug/kg	139	--	10
Benzo(ghi)perylene	14600		ug/kg	139	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	81		30-130
Pyrene-d10	84		30-130
Benzo(b)fluoranthene-d12	81		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-05
 Client ID: MR-13-S5
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 02/27/12 20:22
 Analyst: CM
 Percent Solids: 52%

Date Collected: 02/06/12 11:35
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	ND		ug/kg	14.3	--	1
2-Methylnaphthalene	ND		ug/kg	14.3	--	1
Acenaphthylene	ND		ug/kg	14.3	--	1
Acenaphthene	ND		ug/kg	14.3	--	1
Fluorene	ND		ug/kg	14.3	--	1
Phenanthrene	ND		ug/kg	14.3	--	1
Anthracene	ND		ug/kg	14.3	--	1
Fluoranthene	ND		ug/kg	14.3	--	1
Pyrene	ND		ug/kg	14.3	--	1
Benz(a)anthracene	ND		ug/kg	14.3	--	1
Chrysene	ND		ug/kg	14.3	--	1
Benzo(b)fluoranthene	ND		ug/kg	14.3	--	1
Benzo(k)fluoranthene	ND		ug/kg	14.3	--	1
Benzo(a)pyrene	ND		ug/kg	14.3	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	14.3	--	1
Dibenz(a,h)anthracene	ND		ug/kg	14.3	--	1
Benzo(ghi)perylene	ND		ug/kg	14.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	75		30-130
Pyrene-d10	71		30-130
Benzo(b)fluoranthene-d12	76		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-06
 Client ID: MR-14-S1
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 03/01/12 12:00
 Analyst: CM
 Percent Solids: 43%

Date Collected: 02/06/12 12:00
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	983		ug/kg	45.1	--	5
2-Methylnaphthalene	421		ug/kg	45.1	--	5
Acenaphthylene	5180		ug/kg	45.1	--	5
Acenaphthene	388		ug/kg	45.1	--	5
Fluorene	276		ug/kg	45.1	--	5
Phenanthrene	2030		ug/kg	45.1	--	5
Anthracene	2170		ug/kg	45.1	--	5
Fluoranthene	7550		ug/kg	45.1	--	5
Pyrene	15100		ug/kg	45.1	--	5
Benz(a)anthracene	7440		ug/kg	45.1	--	5
Chrysene	7250		ug/kg	45.1	--	5
Benzo(b)fluoranthene	6350		ug/kg	45.1	--	5
Benzo(k)fluoranthene	5840		ug/kg	45.1	--	5
Benzo(a)pyrene	9920		ug/kg	45.1	--	5
Indeno(1,2,3-cd)Pyrene	4350		ug/kg	45.1	--	5
Dibenz(a,h)anthracene	1200		ug/kg	45.1	--	5
Benzo(ghi)perylene	4050		ug/kg	45.1	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	75		30-130
Pyrene-d10	85		30-130
Benzo(b)fluoranthene-d12	82		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-07
 Client ID: MR-14-S6
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 02/27/12 17:11
 Analyst: CM
 Percent Solids: 56%

Date Collected: 02/06/12 12:00
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	2260		ug/kg	12.2	--	1
2-Methylnaphthalene	216		ug/kg	12.2	--	1
Acenaphthylene	ND		ug/kg	12.2	--	1
Acenaphthene	53.3		ug/kg	12.2	--	1
Fluorene	28.9		ug/kg	12.2	--	1
Phenanthrene	36.9		ug/kg	12.2	--	1
Anthracene	20.4		ug/kg	12.2	--	1
Fluoranthene	34.0		ug/kg	12.2	--	1
Pyrene	58.7		ug/kg	12.2	--	1
Benz(a)anthracene	27.6		ug/kg	12.2	--	1
Chrysene	18.6		ug/kg	12.2	--	1
Benzo(b)fluoranthene	16.8		ug/kg	12.2	--	1
Benzo(k)fluoranthene	17.4		ug/kg	12.2	--	1
Benzo(a)pyrene	16.6		ug/kg	12.2	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	12.2	--	1
Dibenz(a,h)anthracene	ND		ug/kg	12.2	--	1
Benzo(ghi)perylene	ND		ug/kg	12.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	79		30-130
Pyrene-d10	74		30-130
Benzo(b)fluoranthene-d12	78		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-08
 Client ID: 020612-DUP1
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 02/27/12 21:26
 Analyst: CM
 Percent Solids: 60%

Date Collected: 02/06/12 00:00
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	1430		ug/kg	11.8	--	1
2-Methylnaphthalene	45.6		ug/kg	11.8	--	1
Acenaphthylene	104		ug/kg	11.8	--	1
Acenaphthene	215		ug/kg	11.8	--	1
Fluorene	172		ug/kg	11.8	--	1
Phenanthrene	1430		ug/kg	11.8	--	1
Anthracene	1070		ug/kg	11.8	--	1
Fluoranthene	2890		ug/kg	11.8	--	1
Pyrene	2200		ug/kg	11.8	--	1
Benz(a)anthracene	1830		ug/kg	11.8	--	1
Chrysene	1280		ug/kg	11.8	--	1
Benzo(b)fluoranthene	961		ug/kg	11.8	--	1
Benzo(k)fluoranthene	756		ug/kg	11.8	--	1
Benzo(a)pyrene	1100		ug/kg	11.8	--	1
Indeno(1,2,3-cd)Pyrene	441		ug/kg	11.8	--	1
Dibenz(a,h)anthracene	174		ug/kg	11.8	--	1
Benzo(ghi)perylene	381		ug/kg	11.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	75		30-130
Pyrene-d10	69		30-130
Benzo(b)fluoranthene-d12	73		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-09
 Client ID: MR-11-S1
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 03/01/12 11:28
 Analyst: CM
 Percent Solids: 45%

Date Collected: 02/07/12 08:10
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	1270		ug/kg	43.0	--	5
2-Methylnaphthalene	576		ug/kg	43.0	--	5
Acenaphthylene	4080		ug/kg	43.0	--	5
Acenaphthene	617		ug/kg	43.0	--	5
Fluorene	774		ug/kg	43.0	--	5
Phenanthrene	5380		ug/kg	43.0	--	5
Anthracene	3960		ug/kg	43.0	--	5
Fluoranthene	10200		ug/kg	43.0	--	5
Pyrene	18000		ug/kg	43.0	--	5
Benz(a)anthracene	8960		ug/kg	43.0	--	5
Chrysene	8590		ug/kg	43.0	--	5
Benzo(b)fluoranthene	6700		ug/kg	43.0	--	5
Benzo(k)fluoranthene	7090		ug/kg	43.0	--	5
Benzo(a)pyrene	10500		ug/kg	43.0	--	5
Indeno(1,2,3-cd)Pyrene	4610		ug/kg	43.0	--	5
Dibenz(a,h)anthracene	1250		ug/kg	43.0	--	5
Benzo(ghi)perylene	4450		ug/kg	43.0	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	87		30-130
Pyrene-d10	88		30-130
Benzo(b)fluoranthene-d12	86		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-10
 Client ID: MR-11-S3
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 02/27/12 21:57
 Analyst: CM
 Percent Solids: 45%

Date Collected: 02/07/12 08:10
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	104		ug/kg	8.68	--	1
2-Methylnaphthalene	49.1		ug/kg	8.68	--	1
Acenaphthylene	532		ug/kg	8.68	--	1
Acenaphthene	34.4		ug/kg	8.68	--	1
Fluorene	27.8		ug/kg	8.68	--	1
Phenanthrene	214		ug/kg	8.68	--	1
Anthracene	272		ug/kg	8.68	--	1
Fluoranthene	622		ug/kg	8.68	--	1
Pyrene	4150		ug/kg	8.68	--	1
Benz(a)anthracene	1560		ug/kg	8.68	--	1
Chrysene	774		ug/kg	8.68	--	1
Benzo(b)fluoranthene	909		ug/kg	8.68	--	1
Benzo(k)fluoranthene	657		ug/kg	8.68	--	1
Benzo(a)pyrene	1380		ug/kg	8.68	--	1
Indeno(1,2,3-cd)Pyrene	487		ug/kg	8.68	--	1
Dibenz(a,h)anthracene	156		ug/kg	8.68	--	1
Benzo(ghi)perylene	461		ug/kg	8.68	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	81		30-130
Pyrene-d10	72		30-130
Benzo(b)fluoranthene-d12	75		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-11
 Client ID: MR-11-S6
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 02/27/12 20:54
 Analyst: CM
 Percent Solids: 47%

Date Collected: 02/07/12 08:10
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	ND		ug/kg	8.25	--	1
2-Methylnaphthalene	ND		ug/kg	8.25	--	1
Acenaphthylene	ND		ug/kg	8.25	--	1
Acenaphthene	ND		ug/kg	8.25	--	1
Fluorene	ND		ug/kg	8.25	--	1
Phenanthrene	ND		ug/kg	8.25	--	1
Anthracene	ND		ug/kg	8.25	--	1
Fluoranthene	ND		ug/kg	8.25	--	1
Pyrene	ND		ug/kg	8.25	--	1
Benz(a)anthracene	ND		ug/kg	8.25	--	1
Chrysene	ND		ug/kg	8.25	--	1
Benzo(b)fluoranthene	ND		ug/kg	8.25	--	1
Benzo(k)fluoranthene	ND		ug/kg	8.25	--	1
Benzo(a)pyrene	ND		ug/kg	8.25	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	8.25	--	1
Dibenz(a,h)anthracene	ND		ug/kg	8.25	--	1
Benzo(ghi)perylene	ND		ug/kg	8.25	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	81		30-130
Pyrene-d10	77		30-130
Benzo(b)fluoranthene-d12	77		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-12
 Client ID: MR-10-S1
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 03/01/12 14:41
 Analyst: CM
 Percent Solids: 49%

Date Collected: 02/07/12 08:55
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	468		ug/kg	7.52	--	1
2-Methylnaphthalene	228		ug/kg	7.52	--	1
Acenaphthylene	1270		ug/kg	7.52	--	1
Acenaphthene	157		ug/kg	7.52	--	1
Fluorene	236		ug/kg	7.52	--	1
Phenanthrene	2000		ug/kg	7.52	--	1
Anthracene	922		ug/kg	7.52	--	1
Fluoranthene	3510		ug/kg	7.52	--	1
Pyrene	4170		ug/kg	7.52	--	1
Benz(a)anthracene	2530		ug/kg	7.52	--	1
Chrysene	2440		ug/kg	7.52	--	1
Benzo(b)fluoranthene	1940		ug/kg	7.52	--	1
Benzo(k)fluoranthene	1970		ug/kg	7.52	--	1
Benzo(a)pyrene	2870		ug/kg	7.52	--	1
Indeno(1,2,3-cd)Pyrene	1420		ug/kg	7.52	--	1
Dibenz(a,h)anthracene	393		ug/kg	7.52	--	1
Benzo(ghi)perylene	1330		ug/kg	7.52	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	80		30-130
Pyrene-d10	78		30-130
Benzo(b)fluoranthene-d12	78		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-13
 Client ID: MR-9-S1
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 03/01/12 15:14
 Analyst: CM
 Percent Solids: 43%

Date Collected: 02/07/12 09:25
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	621		ug/kg	8.99	--	1
2-Methylnaphthalene	283		ug/kg	8.99	--	1
Acenaphthylene	2390		ug/kg	8.99	--	1
Acenaphthene	245		ug/kg	8.99	--	1
Fluorene	350		ug/kg	8.99	--	1
Phenanthrene	2140		ug/kg	8.99	--	1
Anthracene	1640		ug/kg	8.99	--	1
Fluoranthene	5050		ug/kg	8.99	--	1
Pyrene	7710		ug/kg	8.99	--	1
Benz(a)anthracene	4670		ug/kg	8.99	--	1
Chrysene	4520		ug/kg	8.99	--	1
Benzo(b)fluoranthene	3210		ug/kg	8.99	--	1
Benzo(k)fluoranthene	3210		ug/kg	8.99	--	1
Benzo(a)pyrene	4910		ug/kg	8.99	--	1
Indeno(1,2,3-cd)Pyrene	2330		ug/kg	8.99	--	1
Dibenz(a,h)anthracene	693		ug/kg	8.99	--	1
Benzo(ghi)perylene	2170		ug/kg	8.99	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	71		30-130
Pyrene-d10	83		30-130
Benzo(b)fluoranthene-d12	77		30-130

Project Name: GLOUCESTER MGP**Lab Number:** L1202275**Project Number:** GLOUCESTER MGP**Report Date:** 03/02/12**SAMPLE RESULTS**

Lab ID: L1202275-14
 Client ID: MR-8-S1
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 03/01/12 15:46
 Analyst: CM
 Percent Solids: 35%

Date Collected: 02/07/12 09:50
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3570
 Extraction Date: 02/15/12 15:45
 Cleanup Method1: EPA 3630
 Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	590		ug/kg	11.1	--	1
2-Methylnaphthalene	297		ug/kg	11.1	--	1
Acenaphthylene	3740		ug/kg	11.1	--	1
Acenaphthene	365		ug/kg	11.1	--	1
Fluorene	374		ug/kg	11.1	--	1
Phenanthrene	2530		ug/kg	11.1	--	1
Anthracene	2130		ug/kg	11.1	--	1
Fluoranthene	6930		ug/kg	11.1	--	1
Pyrene	9810		ug/kg	11.1	--	1
Benz(a)anthracene	6850		ug/kg	11.1	--	1
Chrysene	6420		ug/kg	11.1	--	1
Benzo(b)fluoranthene	5180		ug/kg	11.1	--	1
Benzo(k)fluoranthene	4040		ug/kg	11.1	--	1
Benzo(a)pyrene	7060		ug/kg	11.1	--	1
Indeno(1,2,3-cd)Pyrene	3630		ug/kg	11.1	--	1
Dibenz(a,h)anthracene	935		ug/kg	11.1	--	1
Benzo(ghi)perylene	3340		ug/kg	11.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	72		30-130
Pyrene-d10	72		30-130
Benzo(b)fluoranthene-d12	69		30-130

Project Name: GLOUCESTER MGP**Lab Number:** L1202275**Project Number:** GLOUCESTER MGP**Report Date:** 03/02/12**SAMPLE RESULTS**

Lab ID: L1202275-15
 Client ID: RB1
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment
 Analytical Method: 97,8270C-SIM
 Analytical Date: 02/16/12 20:28
 Analyst: CM

Date Collected: 02/07/12 11:57
 Date Received: 02/08/12
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 02/14/12 08:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP PAHs by GC/MS-SIM - Mansfield Lab						
Naphthalene	ND		ng/l	10.0	--	1
2-Methylnaphthalene	ND		ng/l	10.0	--	1
Acenaphthylene	ND		ng/l	10.0	--	1
Acenaphthene	ND		ng/l	10.0	--	1
Fluorene	ND		ng/l	10.0	--	1
Phenanthrene	ND		ng/l	10.0	--	1
Anthracene	ND		ng/l	10.0	--	1
Fluoranthene	ND		ng/l	10.0	--	1
Pyrene	ND		ng/l	10.0	--	1
Benz(a)anthracene	ND		ng/l	10.0	--	1
Chrysene	ND		ng/l	10.0	--	1
Benzo(b)fluoranthene	ND		ng/l	10.0	--	1
Benzo(k)fluoranthene	ND		ng/l	10.0	--	1
Benzo(a)pyrene	ND		ng/l	10.0	--	1
Indeno(1,2,3-cd)Pyrene	ND		ng/l	10.0	--	1
Dibenz(a,h)anthracene	ND		ng/l	10.0	--	1
Benzo(ghi)perylene	ND		ng/l	10.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	83		30-130
Pyrene-d10	91		30-130
Benzo(b)fluoranthene-d12	95		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270C-SIM
Analytical Date: 02/16/12 18:20
Analyst: CM

Extraction Method: EPA 3510C
Extraction Date: 02/14/12 08:18

Parameter	Result	Qualifier	Units	RL	MDL
MCP PAHs by GC/MS-SIM - Mansfield Lab for sample(s): 15 Batch: WG518342-1					
Naphthalene	ND		ng/l	10.0	--
2-Methylnaphthalene	ND		ng/l	10.0	--
Acenaphthylene	ND		ng/l	10.0	--
Acenaphthene	ND		ng/l	10.0	--
Fluorene	ND		ng/l	10.0	--
Phenanthrene	ND		ng/l	10.0	--
Anthracene	ND		ng/l	10.0	--
Fluoranthene	ND		ng/l	10.0	--
Pyrene	ND		ng/l	10.0	--
Benz(a)anthracene	ND		ng/l	10.0	--
Chrysene	ND		ng/l	10.0	--
Benzo(b)fluoranthene	ND		ng/l	10.0	--
Benzo(k)fluoranthene	ND		ng/l	10.0	--
Benzo(a)pyrene	ND		ng/l	10.0	--
Indeno(1,2,3-cd)Pyrene	ND		ng/l	10.0	--
Dibenz(a,h)anthracene	ND		ng/l	10.0	--
Benzo(ghi)perylene	ND		ng/l	10.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	86		30-130
Pyrene-d10	97		30-130
Benzo(b)fluoranthene-d12	98		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270C-SIM
Analytical Date: 02/27/12 15:35
Analyst: CM

Extraction Method: EPA 3570
Extraction Date: 02/15/12 15:45
Cleanup Method1: EPA 3630
Cleanup Date1: 02/23/12

Parameter	Result	Qualifier	Units	RL	MDL
MCP PAHs by GC/MS-SIM - Mansfield Lab for sample(s): 01-14 Batch: WG518645-1					
Naphthalene	ND		ug/kg	8.00	--
2-Methylnaphthalene	ND		ug/kg	8.00	--
Acenaphthylene	ND		ug/kg	8.00	--
Acenaphthene	ND		ug/kg	8.00	--
Fluorene	ND		ug/kg	8.00	--
Phenanthrene	ND		ug/kg	8.00	--
Anthracene	ND		ug/kg	8.00	--
Fluoranthene	ND		ug/kg	8.00	--
Pyrene	ND		ug/kg	8.00	--
Benz(a)anthracene	ND		ug/kg	8.00	--
Chrysene	ND		ug/kg	8.00	--
Benzo(b)fluoranthene	ND		ug/kg	8.00	--
Benzo(k)fluoranthene	ND		ug/kg	8.00	--
Benzo(a)pyrene	ND		ug/kg	8.00	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	8.00	--
Dibenz(a,h)anthracene	ND		ug/kg	8.00	--
Benzo(ghi)perylene	ND		ug/kg	8.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	72		30-130
Pyrene-d10	69		30-130
Benzo(b)fluoranthene-d12	75		30-130

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270C
Analytical Date: 02/24/12 19:02
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/16/12 18:13

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 16 Batch: WG518904-1					
Acenaphthene	ND		ug/kg	260	--
1,2,4-Trichlorobenzene	ND		ug/kg	330	--
Hexachlorobenzene	ND		ug/kg	200	--
Bis(2-chloroethyl)ether	ND		ug/kg	300	--
2-Chloronaphthalene	ND		ug/kg	330	--
1,2-Dichlorobenzene	ND		ug/kg	330	--
1,3-Dichlorobenzene	ND		ug/kg	330	--
1,4-Dichlorobenzene	ND		ug/kg	330	--
3,3'-Dichlorobenzidine	ND		ug/kg	330	--
2,4-Dinitrotoluene	ND		ug/kg	330	--
2,6-Dinitrotoluene	ND		ug/kg	330	--
Azobenzene	ND		ug/kg	330	--
Fluoranthene	ND		ug/kg	200	--
4-Bromophenyl phenyl ether	ND		ug/kg	330	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	390	--
Bis(2-chloroethoxy)methane	ND		ug/kg	360	--
Hexachlorobutadiene	ND		ug/kg	330	--
Hexachloroethane	ND		ug/kg	260	--
Isophorone	ND		ug/kg	300	--
Naphthalene	ND		ug/kg	330	--
Nitrobenzene	ND		ug/kg	300	--
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	330	--
Butyl benzyl phthalate	ND		ug/kg	330	--
Di-n-butylphthalate	ND		ug/kg	330	--
Di-n-octylphthalate	ND		ug/kg	330	--
Diethyl phthalate	ND		ug/kg	330	--
Dimethyl phthalate	ND		ug/kg	330	--
Benzo(a)anthracene	ND		ug/kg	200	--
Benzo(a)pyrene	ND		ug/kg	260	--
Benzo(b)fluoranthene	ND		ug/kg	200	--
Benzo(k)fluoranthene	ND		ug/kg	200	--

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270C
Analytical Date: 02/24/12 19:02
Analyst: JB

Extraction Method: EPA 3546
Extraction Date: 02/16/12 18:13

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 16 Batch: WG518904-1					
Chrysene	ND		ug/kg	200	--
Acenaphthylene	ND		ug/kg	260	--
Anthracene	ND		ug/kg	200	--
Benzo(ghi)perylene	ND		ug/kg	260	--
Fluorene	ND		ug/kg	330	--
Phenanthrene	ND		ug/kg	200	--
Dibenzo(a,h)anthracene	ND		ug/kg	200	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	260	--
Pyrene	ND		ug/kg	200	--
Aniline	ND		ug/kg	390	--
4-Chloroaniline	ND		ug/kg	330	--
Dibenzofuran	ND		ug/kg	330	--
2-Methylnaphthalene	ND		ug/kg	390	--
Acetophenone	ND		ug/kg	330	--
2,4,6-Trichlorophenol	ND		ug/kg	200	--
2-Chlorophenol	ND		ug/kg	330	--
2,4-Dichlorophenol	ND		ug/kg	300	--
2,4-Dimethylphenol	ND		ug/kg	330	--
2-Nitrophenol	ND		ug/kg	710	--
4-Nitrophenol	ND		ug/kg	460	--
2,4-Dinitrophenol	ND		ug/kg	1600	--
Pentachlorophenol	ND		ug/kg	660	--
Phenol	ND		ug/kg	330	--
2-Methylphenol	ND		ug/kg	330	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	470	--
2,4,5-Trichlorophenol	ND		ug/kg	330	--

Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270C
 Analytical Date: 02/24/12 19:02
 Analyst: JB

Extraction Method: EPA 3546
 Extraction Date: 02/16/12 18:13

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 16 Batch: WG518904-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		30-130
Phenol-d6	78		30-130
Nitrobenzene-d5	75		30-130
2-Fluorobiphenyl	74		30-130
2,4,6-Tribromophenol	82		30-130
4-Terphenyl-d14	80		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP PAHs by GC/MS-SIM - Mansfield Lab Associated sample(s): 15 Batch: WG518342-2 WG518342-3								
Naphthalene	97		97		40-140	0		20
2-Methylnaphthalene	99		99		40-140	0		20
Acenaphthylene	93		93		40-140	0		20
Acenaphthene	99		100		40-140	1		20
Fluorene	101		101		40-140	0		20
Phenanthrene	104		101		40-140	3		20
Anthracene	96		96		40-140	0		20
Fluoranthene	108		106		40-140	2		20
Pyrene	106		106		40-140	0		20
Benz(a)anthracene	110		108		40-140	2		20
Chrysene	105		106		40-140	1		20
Benzo(b)fluoranthene	116		109		40-140	6		20
Benzo(k)fluoranthene	111		114		40-140	3		20
Benzo(a)pyrene	114		113		40-140	1		20
Indeno(1,2,3-cd)Pyrene	116		115		40-140	1		20
Dibenz(a,h)anthracene	111		109		40-140	2		20
Benzo(ghi)perylene	110		107		40-140	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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MCP PAHs by GC/MS-SIM - Mansfield Lab Associated sample(s): 15 Batch: WG518342-2 WG518342-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Methylnaphthalene-d10	87		89		30-130
Pyrene-d10	94		94		30-130
Benzo(b)fluoranthene-d12	97		97		30-130

MCP PAHs by GC/MS-SIM - Mansfield Lab Associated sample(s): 01-14 Batch: WG518645-2 WG518645-3

Naphthalene	78		72		40-140	8		30
2-Methylnaphthalene	77		72		40-140	7		30
Acenaphthylene	71		65		40-140	9		30
Acenaphthene	77		71		40-140	8		30
Fluorene	78		71		40-140	9		30
Phenanthrene	76		72		40-140	5		30
Anthracene	71		63		40-140	12		30
Fluoranthene	83		74		40-140	11		30
Pyrene	78		68		40-140	14		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP PAHs by GC/MS-SIM - Mansfield Lab Associated sample(s): 01-14 Batch: WG518645-2 WG518645-3								
Benz(a)anthracene	82		73		40-140	12		30
Chrysene	78		69		40-140	12		30
Benzo(b)fluoranthene	88		79		40-140	11		30
Benzo(k)fluoranthene	78		67		40-140	15		30
Benzo(a)pyrene	84		74		40-140	13		30
Indeno(1,2,3-cd)Pyrene	88		78		40-140	12		30
Dibenz(a,h)anthracene	85		74		40-140	14		30
Benzo(ghi)perylene	82		72		40-140	13		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Methylnaphthalene-d10	67		62		30-130
Pyrene-d10	66		58		30-130
Benzo(b)fluoranthene-d12	72		63		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 16 Batch: WG518904-2 WG518904-3								
Acenaphthene	73		58		40-140	23		30
1,2,4-Trichlorobenzene	68		55		40-140	21		30
Hexachlorobenzene	80		60		40-140	29		30
Bis(2-chloroethyl)ether	70		56		40-140	22		30
2-Chloronaphthalene	85		66		40-140	25		30
1,2-Dichlorobenzene	67		56		40-140	18		30
1,3-Dichlorobenzene	68		54		40-140	23		30
1,4-Dichlorobenzene	67		55		40-140	20		30
3,3'-Dichlorobenzidine	60		43		40-140	33	Q	30
2,4-Dinitrotoluene	87		65		40-140	29		30
2,6-Dinitrotoluene	81		66		40-140	20		30
Azobenzene	85		64		40-140	28		30
Fluoranthene	82		63		40-140	26		30
4-Bromophenyl phenyl ether	84		64		40-140	27		30
Bis(2-chloroisopropyl)ether	69		56		40-140	21		30
Bis(2-chloroethoxy)methane	71		58		40-140	20		30
Hexachlorobutadiene	73		58		40-140	23		30
Hexachloroethane	66		54		40-140	20		30
Isophorone	73		60		40-140	20		30
Naphthalene	71		57		40-140	22		30
Nitrobenzene	74		60		40-140	21		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 16 Batch: WG518904-2 WG518904-3								
Bis(2-Ethylhexyl)phthalate	85		66		40-140	25		30
Butyl benzyl phthalate	87		63		40-140	32	Q	30
Di-n-butylphthalate	84		64		40-140	27		30
Di-n-octylphthalate	88		69		40-140	24		30
Diethyl phthalate	84		62		40-140	30		30
Dimethyl phthalate	80		61		40-140	27		30
Benzo(a)anthracene	80		63		40-140	24		30
Benzo(a)pyrene	76		59		40-140	25		30
Benzo(b)fluoranthene	87		68		40-140	25		30
Benzo(k)fluoranthene	79		61		40-140	26		30
Chrysene	82		63		40-140	26		30
Acenaphthylene	78		62		40-140	23		30
Anthracene	80		61		40-140	27		30
Benzo(ghi)perylene	82		63		40-140	26		30
Fluorene	79		60		40-140	27		30
Phenanthrene	78		61		40-140	24		30
Dibenzo(a,h)anthracene	80		62		40-140	25		30
Indeno(1,2,3-cd)Pyrene	78		60		40-140	26		30
Pyrene	82		62		40-140	28		30
Aniline	34	Q	23	Q	40-140	39	Q	30
4-Chloroaniline	47		34	Q	40-140	32	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GLOUCESTER MGP

Project Number: GLOUCESTER MGP

Lab Number: L1202275

Report Date: 03/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 16 Batch: WG518904-2 WG518904-3								
Dibenzofuran	78		60		40-140	26		30
2-Methylnaphthalene	72		57		40-140	23		30
Acetophenone	77		62		40-140	22		30
2,4,6-Trichlorophenol	86		69		30-130	22		30
2-Chlorophenol	76		64		30-130	17		30
2,4-Dichlorophenol	80		67		30-130	18		30
2,4-Dimethylphenol	74		57		30-130	26		30
2-Nitrophenol	78		65		30-130	18		30
4-Nitrophenol	103		76		30-130	30		30
2,4-Dinitrophenol	34		26	Q	30-130	27		30
Pentachlorophenol	98		71		30-130	32	Q	30
Phenol	74		61		30-130	19		30
2-Methylphenol	75		62		30-130	19		30
3-Methylphenol/4-Methylphenol	77		65		30-130	17		30
2,4,5-Trichlorophenol	90		70		30-130	25		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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MCP Semivolatile Organics - Westborough Lab Associated sample(s): 16 Batch: WG518904-2 WG518904-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		60		30-130
Phenol-d6	80		64		30-130
Nitrobenzene-d5	74		59		30-130
2-Fluorobiphenyl	74		60		30-130
2,4,6-Tribromophenol	91		70		30-130
4-Terphenyl-d14	81		60		30-130

Matrix Spike Analysis Batch Quality Control

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP PAHs by GC/MS-SIM - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG518645-4 WG518645-5 QC Sample: L1202275-07 Client ID: MR-14-S6												
Naphthalene	2260	1590	4140	118		3920	105		40-140	5		30
2-Methylnaphthalene	216	1590	1740	96		1660	92		40-140	5		30
Acenaphthylene	ND	1590	1340	84		1340	85		40-140	0		30
Acenaphthene	53.3	1590	1500	91		1480	90		40-140	1		30
Fluorene	28.9	1590	1520	94		1500	93		40-140	1		30
Phenanthrene	36.9	1590	1660	102		1760	109		40-140	6		30
Anthracene	20.4	1590	1200	74		1100	68		40-140	9		30
Fluoranthene	34.0	1590	1670	103		1430	89		40-140	15		30
Pyrene	58.7	1590	1500	91		1550	95		40-140	3		30
Benz(a)anthracene	27.6	1590	1670	103		1740	109		40-140	4		30
Chrysene	18.6	1590	1290	80		1260	79		40-140	2		30
Benzo(b)fluoranthene	16.8	1590	1700	106		1610	101		40-140	5		30
Benzo(k)fluoranthene	17.4	1590	1280	80		1360	85		40-140	6		30
Benzo(a)pyrene	16.6	1590	1560	97		1530	96		40-140	2		30
Indeno(1,2,3-cd)Pyrene	ND	1590	1600	101		1550	98		40-140	3		30
Dibenz(a,h)anthracene	ND	1590	1500	94		1480	94		40-140	1		30
Benzo(ghi)perylene	ND	1590	1460	92		1420	90		40-140	3		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	83		84		30-130



Matrix Spike Analysis

Batch Quality Control

Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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MCP PAHs by GC/MS-SIM - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG518645-4 WG518645-5 QC Sample: L1202275-07 Client ID: MR-14-S6

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
Benzo(b)fluoranthene-d12	84		83		30-130
Pyrene-d10	79		81		30-130

INORGANICS & MISCELLANEOUS

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-01
Client ID: MR-12-S1
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/06/12 11:00
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	3.46		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	3.36		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	68.1		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-02
Client ID: MR-12-S5
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/06/12 11:00
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	4.06		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	3.38		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	48.7		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-03
Client ID: MR-12-S7
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/06/12 11:00
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.85		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	1.80		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	57.2		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-04
Client ID: MR-13-S1
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/06/12 11:35
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	3.08		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	3.14		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	53.5		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-05
Client ID: MR-13-S5
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/06/12 11:35
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	2.33		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	2.16		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	51.8		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-06
Client ID: MR-14-S1
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/06/12 12:00
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	3.02		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	2.87		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	42.9		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-07
Client ID: MR-14-S6
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/06/12 12:00
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	2.14		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	1.99		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	56.3		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-08
Client ID: 020612-DUP1
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/06/12 00:00
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	1.74		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	1.73		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	60.4		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-09
Client ID: MR-11-S1
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/07/12 08:10
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	3.33		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	3.49		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	45.2		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-10
Client ID: MR-11-S3
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/07/12 08:10
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	3.21		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	3.12		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	44.8		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-11
Client ID: MR-11-S6
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/07/12 08:10
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	2.70		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	2.56		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	47.0		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-12
Client ID: MR-10-S1
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/07/12 08:55
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	3.48		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	2.81		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	49.4		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-13
Client ID: MR-9-S1
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/07/12 09:25
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	3.13		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	3.03		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	42.8		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-14
Client ID: MR-8-S1
Sample Location: GLOUCESTER, MA
Matrix: Sediment

Date Collected: 02/07/12 09:50
Date Received: 02/08/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	4.56		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	4.19		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Mansfield Lab										
Solids, Total	35.0		%	0.100	--	1	-	02/10/12 11:30	30,2540G	KB



Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

SAMPLE RESULTS

Lab ID: L1202275-15
 Client ID: RB1
 Sample Location: GLOUCESTER, MA
 Matrix: Sediment

Date Collected: 02/07/12 11:57
 Date Received: 02/08/12
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	ND		mg/l	0.50	--	1	-	02/29/12 08:19	1,9060	DW



Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab for sample(s): 01-14 Batch: WG518237-1										
Total Organic Carbon (Rep1)	0.010		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
Total Organic Carbon (Rep2)	ND		%	0.010	--	1	-	02/20/12 05:45	1,9060	JA
General Chemistry - Westborough Lab for sample(s): 16 Batch: WG519303-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	02/20/12 15:20	02/20/12 17:13	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 16 Batch: WG519305-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	02/20/12 15:20	02/20/12 17:24	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 15 Batch: WG520732-1										
Total Organic Carbon	ND		mg/l	0.50	--	1	-	02/29/12 08:19	1,9060	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: GLOUCESTER MGP

Project Number: GLOUCESTER MGP

Lab Number: L1202275

Report Date: 03/02/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 16 Batch: WG518915-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 16 Batch: WG519303-2								
Cyanide, Reactive	64		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 16 Batch: WG519305-2								
Sulfide, Reactive	106		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 15 Batch: WG520732-2								
Total Organic Carbon	103		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: GLOUCESTER MGP

Lab Number: L1202275

Project Number: GLOUCESTER MGP

Report Date: 03/02/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG518237-4 QC Sample: L1202275-07 Client ID: MR-14-S6												
Total Organic Carbon (Rep1)	2.14	2.51	4.26	84		-	-		75-125	-		25
Total Organic Carbon (Rep2)	1.99	2.86	4.70	90		-	-		75-125	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGI

Lab Number: L1202275
Report Date: 03/02/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG517868-1 QC Sample: L1202275-07 Client ID: MR-14-S6						
Solids, Total	56.3	56.1	%	0		20
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-14 QC Batch ID: WG518237-3 QC Sample: L1202275-07 Client ID: MR-14-S6						
Total Organic Carbon (Rep1)	2.14	1.93	%	10		25
Total Organic Carbon (Rep2)	1.99	2.03	%	2		25
General Chemistry - Westborough Lab Associated sample(s): 16 QC Batch ID: WG518915-2 QC Sample: L1202737-01 Client ID: DUP Sample						
pH	7.5	7.6	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 16 QC Batch ID: WG519303-3 QC Sample: L1202686-04 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 16 QC Batch ID: WG519305-3 QC Sample: L1202686-04 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 16 QC Batch ID: WG519566-1 QC Sample: L1202462-01 Client ID: DUP Sample						
Solids, Total	27	26	%	4		20
General Chemistry - Westborough Lab Associated sample(s): 15 QC Batch ID: WG520732-4 QC Sample: L1202275-15 Client ID: RB1						
Total Organic Carbon	ND	ND	mg/l	NC		20

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG518237-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	108		75-125
Total Organic Carbon (Rep2)	108		75-125

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 02/08/2012 20:10

Cooler Information Custody Seal Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1202275-01A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-02A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-03A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-04A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-05A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-06A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-07A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-07B	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-08A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-09A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-10A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-11A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-12A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)

*Values in parentheses indicate holding time in days



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1202275-13A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-14A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(14),A2-TS(7),A2-TOC-9060-2REPS(28)
L1202275-15A	Glass 1000ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(7)
L1202275-15B	Glass 1000ml unpreserved	A	N/A	2.6	Y	Absent	A2-MCPPAH-8270SIM-10(7)
L1202275-15C	Vial H2SO4 preserved	A	N/A	2.6	Y	Absent	TOC-9060(28)
L1202275-15D	Vial H2SO4 preserved	A	N/A	2.6	Y	Absent	TOC-9060(28)
L1202275-16A	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	MCP-8082-10(365),TS(7)
L1202275-16B	Vial water preserved	A	N/A	2.6	Y	Absent	MCP-8260HLW-10(14)
L1202275-16C	Vial water preserved	A	N/A	2.6	Y	Absent	MCP-8260HLW-10(14)
L1202275-16D	Vial MeOH preserved	A	N/A	2.6	Y	Absent	MCP-8260HLW-10(14)
L1202275-16E	Glass 250ml unpreserved	A	N/A	2.6	Y	Absent	IGNIT-1030(14),MCP-CR-6010T-10(180),REACTS(14),MCP-8270-10(14),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),PH-9045(1),MCP-SE-6010T-10(180),PAINTF(),MCP-BA-6010T-10(180),REACTCN(14),TPH-DRO-D(14),MCP-PB-6010T-10(180)
L1202275-17B	Vial water preserved	A	N/A	2.6	Y	Absent	MCP-8260HLW-10(14)
L1202275-17C	Vial water preserved	A	N/A	2.6	Y	Absent	MCP-8260HLW-10(14)
L1202275-17D	Vial MeOH preserved	A	N/A	2.6	Y	Absent	MCP-8260HLW-10(14)

Container Comments

L1202275-16D

L1202275-17D

*Values in parentheses indicate holding time in days



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- | | |
|-----------|---|
| A | - Spectra identified as "Aldol Condensation Product". |
| B | - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. |
| C | - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses. |
| D | - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte. |
| E | - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument. |
| G | - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated. |
| H | - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection. |
| I | - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference. |
| M | - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte. |
| NJ | - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search. |

Report Format: Data Usability Report



Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

Data Qualifiers

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: GLOUCESTER MGP
Project Number: GLOUCESTER MGP

Lab Number: L1202275
Report Date: 03/02/12

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised January 30, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 245.7, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081B, 8082A, 8260B, 8270C, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, SM2320B, SM2540D, 2540G, EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020, 9050A. Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 7474, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Certificate/Lab ID: 68-02089 **NELAP Accredited**

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474. Organic Parameters: EPA 3050B, 3540C, 3630C, 8270C, 8081B, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. **NELAP Accredited via LA-DEQ.**

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. **NELAP Accredited.**

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460194. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 3020A, 6020A, 245.7, 9040B, SM4500H-B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A, 7470A, 7471B, 9040B, 9045C, 3050B, 3051. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015D.)

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl. **TO-15**: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. **NELAP Accredited.**
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE.
Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. **NELAP Accredited via NY-DOH.**
 Refer to MA-DEP Certificate for Potable and Non-Potable Water.
 Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix, SO₄ in a soil matrix.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab:

ALPHA Job #: L1202275

Project Information

Project Name: Gloucester MGP
Project Location: Gloucester, MA
Project #: Gloucester MGP
Project Manager: M. Mahoney
ALPHA Quote #:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: Anchor QEA
Address: 500 Cummings Ctr #3470
Beverly, MA 01915
Phone: 978-338-5830
Fax: NA
Email: bthibault@anchorgea.com

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: Time:

Regulatory Requirements/Report Limits

State /Fed Program MA Criteria MCP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

Yes No Are MCP Analytical Methods Required?
 Yes No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples).
Please archive the sample remaining after analysis

ANALYSIS PAH (8270) TOC											TOTAL # BOTTLES										
											SAMPLE HANDLING										
											Filtration _____										
											<input type="checkbox"/> Done										
											<input checked="" type="checkbox"/> Not needed										
											<input type="checkbox"/> Lab to do										
											Preservation										
											<input type="checkbox"/> Lab to do										
											(Please specify below)										
											Sample Specific Comments										

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											Sample Specific Comments							
		Date	Time																				
1	MR-12-S1	2/6/12	11:00	B	BULT	X	X																1
2	MR-12-S5		11:00	B		X	X																1
3	MR-12-S7		11:00	B		X	X																1
4	MR-13-S1		11:35	B		X	X																1
5	MR-13-S5		11:35	B		X	X																1
6	MR-14-S1		12:00	B		X	X																1
7	MR-14-S6	↓	12:00	B	↓	X	X															MS/MSD	2
8	020612-DUP1	2/6/12	—	B	BULT	X	X																1
9	MR-11-S1	2/7/12	08:10	B		X	X																1
10	MR-11-S3	2/7/12	08:10	B	↓	X	X																1

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type A A
Preservative A A

Relinquished By:

Date/Time

Billy Jo Thibault 2/9/12 1100
Stewart 2/8/12 1710
Pet Cole 2/9/12 841

Received By:

Date/Time

Stewart 2/8/12 1100
Pet Cole 2/9/12 720
L. Hane 2/9/12 0845

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



CHAIN OF CUSTODY

PAGE 2 OF 3

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Project Information

Project Name: Gloucester MGP
Project Location: Gloucester, MA
Project #: Gloucester MGP
Project Manager: M. Mahoney
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: _____ Time: _____

Date Rec'd in Lab:

ALPHA Job #:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: Anchor QEA
Address: 500 Cummings Ctr # 3470
Beverly, MA 01915
Phone: 978-338-5830
Fax: NA
Email: bthibault@anchorqea.com

Regulatory Requirements/Report Limits

State /Fed Program MA Criteria MCP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

Yes No Are MCP Analytical Methods Required?
 Yes No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)
please archive the sample remaining after analysis

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials					TOTAL # BOTTLES
		Date	Time							
11	MR-11-SG	2/7/12	08:10	B	BJLT	X	X			1
12	MR-10-S1		08:55	B	BJLT	X	X			1
13	MR-9-S1		09:25	B	BJLT	X	X			1
14	MR-8-S1		09:50	B	BJLT	X	X			1
15	RB1		11:57	Water	BJLT	X	X			4
/										

ANALYSIS

PAH (8270)

TOC

SAMPLE HANDLING

Filtration _____

Done

Not needed

Lab to do Preservation

Lab to do

(Please specify below)

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type A A
Preservative A A

Relinquished By:

Date/Time

Received By:

Date/Time

Billie Jo Thibault 2/8/12 1100 [Signature] 2/8/12 1100
[Signature] 2/8/12 1710 Pet Cole 2/9/12 720
Pet Cole 2/9/12 720 [Signature] 2/9/12 0845

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



CHAIN OF CUSTODY

PAGE 3 OF 3

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Anchor QEA
Address: 500 Cummings Ctr #3470
Beverly, MA 01915
Phone: 978-338-5830
Fax: NA
Email: bthibault@anchorqea.com
 These samples have been previously analyzed by Alpha

Project Information

Project Name: Gloucester MGP
Project Location: Gloucester, MA
Project #: Gloucester MGP
Project Manager: M. Mahoney
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: _____ Time: _____

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)
for PCBs please use Soxhlet extraction.
Please archive sample remaining after analysis.

Date Rec'd in Lab:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

ALPHA Job #: L1202275

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program MA Criteria MCP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

Yes No Are MCP Analytical Methods Required?
 Yes No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS	VOCs	SVOCs	TPH	PCBs (Soxhlet)	RCRA 8 Metals	Paint filter	Ignitability	Reactivity	Composivity	Toxicity (SvOC, VOC, Pest, PCB)	SAMPLE HANDLING
											Filtration _____ <input type="checkbox"/> Done <input checked="" type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below)
											Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
-16	SAWC-1	2/6/12	1630	B	BJLT
-17	Trip Blank 1	1/24/12	—	lab H2O	lab
/					
/					
/					
/					
/					
/					

TOTAL # BOTTLES
5
3
BOLT 2/7/12

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type V A A A A A A A A A
Preservative F/A A A A A A A A A

Relinquished By: Billie Jo Thibault Date/Time: 2/8/12 1100
Stull 2/8/12 1710
Received By: Pat Cude Date/Time: 2/8/12 1100
Pat Cude 2/9/12 0845

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.