

Table 4. Physical properties of sampling locations and chemical analyses of groundwater samples collected from temporary drive points below the pond bottom, Ashumet Pond, Cape Cod, Massachusetts, June 29–July 2, 2004.

[Easting and Northing: State plane coordinates are for North American Datum of 1983 (NAD83). Latitude and longitude in degrees (°), minutes (′), and seconds (″). Altitude refers to distance above or below the National Geodetic Vertical Datum of 1929. Source of nitrogen data: Richard L. Smith, U.S. Geological Survey, National Research Program, Boulder, Colorado. ft, foot; m, meter; μS/cm, microsiemens per centimeter at 25 degrees Celsius; <, actual value less than value shown; >, actual value greater than value shown; --, no data. Pond stage on 6/29/2004 was 44.30 ft. Locations of sites shown in figure 5]

Site identifier	Date sampled	Easting (m)	Northing (m)	Latitude (° ′ ″)	Longitude (° ′ ″)	Distance from shore (ft)	Water depth (ft)	Drive depth (ft)	Altitude of bottom of drive point (ft)
01-00	6/29/04	280031.560	820965.933	41 38 05.16	70 32 24.06	0	0.0	3.0	41.3
01-08	6/29/04	280034.369	820964.705	41 38 05.12	70 32 23.94	8	0.5	3.0	40.8
01-16	6/29/04	280036.304	820963.762	41 38 05.08	70 32 23.86	16	1.2	3.0	40.1
01-24	6/29/04	280038.567	820962.851	41 38 05.05	70 32 23.76	24	1.5	3.0	39.8
01-32	6/29/04	280040.713	820961.939	41 38 05.02	70 32 23.67	32	1.9	3.0	39.4
01-40	6/29/04	280042.844	820960.887	41 38 04.99	70 32 23.58	40	2.4	3.0	38.9
01-50	6/29/04	280045.233	820958.198	41 38 04.90	70 32 23.48	50	3.0	3.0	38.3
01-60	6/29/04	280048.219	820957.678	41 38 04.88	70 32 23.35	60	3.6	3.0	37.7
02-00	6/29/04	280037.027	820969.126	41 38 05.26	70 32 23.83	0	0.0	3.0	41.3
02-08	6/29/04	280039.218	820968.237	41 38 05.23	70 32 23.73	8	0.5	3.0	40.8
02-16	6/29/04	280041.612	820967.250	41 38 05.20	70 32 23.63	16	1.1	3.0	40.2
02-24	6/29/04	280043.836	820966.903	41 38 05.18	70 32 23.53	24	1.7	3.0	39.6
02-32	6/29/04	280046.169	820966.134	41 38 05.16	70 32 23.43	32	2.1	3.0	39.2
02-40	6/29/04	280048.368	820965.103	41 38 05.12	70 32 23.34	40	2.6	3.0	38.7
02-50	6/29/04	280050.988	820963.511	41 38 05.07	70 32 23.23	50	3.2	3.0	38.1
02-60	6/29/04	280053.917	820962.302	41 38 05.03	70 32 23.10	60	4.0	3.0	37.3
03-00	6/29/04	280042.083	820973.687	41 38 05.40	70 32 23.61	0	0.0	3.0	41.3
03-08	6/29/04	280044.459	820972.572	41 38 05.37	70 32 23.50	8	0.6	3.0	40.7
03-16	6/29/04	280046.814	820971.698	41 38 05.34	70 32 23.40	16	1.3	3.0	40.0
03-24	6/29/04	280048.869	820970.616	41 38 05.30	70 32 23.31	24	1.7	3.0	39.6
03-32	6/29/04	280051.055	820969.737	41 38 05.27	70 32 23.22	32	2.2	3.0	39.1
03-40	6/29/04	280053.234	820968.834	41 38 05.24	70 32 23.13	40	2.7	3.0	38.6
03-50	6/29/04	280056.391	820967.845	41 38 05.21	70 32 22.99	50	3.4	3.0	37.9
03-60	6/29/04	280059.026	820966.840	41 38 05.18	70 32 22.88	60	3.9	3.0	37.4
04-00	6/30/04	280047.104	820978.081	41 38 05.54	70 32 23.39	0	0.0	3.0	41.3
04-08	6/30/04	280049.376	820977.366	41 38 05.52	70 32 23.29	8	0.6	3.0	40.7
04-16	6/30/04	280051.823	820976.908	41 38 05.51	70 32 23.18	16	1.4	3.0	39.9
04-24	6/30/04	280054.128	820976.421	41 38 05.49	70 32 23.08	24	1.6	3.0	39.7
04-32	6/30/04	280056.333	820975.889	41 38 05.47	70 32 22.99	32	2.1	3.0	39.2
04-40	6/30/04	280058.733	820975.438	41 38 05.46	70 32 22.89	40	2.7	3.0	38.6
04-50	6/30/04	280061.682	820974.856	41 38 05.44	70 32 22.76	50	3.4	3.0	37.9
04-60	6/30/04	280064.694	820974.111	41 38 05.41	70 32 22.63	60	4.0	3.0	37.3
05-00	6/30/04	280051.524	820984.420	41 38 05.75	70 32 23.19	0	0.0	3.0	41.3
05-08	6/30/04	280054.176	820983.558	41 38 05.72	70 32 23.08	8	0.6	3.0	40.7
05-16	6/30/04	280056.472	820982.944	41 38 05.70	70 32 22.98	16	1.3	3.0	40.0
05-24	6/30/04	280059.684	820982.322	41 38 05.68	70 32 22.84	24	1.7	3.0	39.6
05-32	6/30/04	280061.571	820981.932	41 38 05.66	70 32 22.76	32	2.1	3.0	39.2
05-40	6/30/04	280063.788	820981.494	41 38 05.65	70 32 22.66	40	2.7	3.0	38.6
05-50	6/30/04	280066.894	820980.841	41 38 05.63	70 32 22.53	50	3.4	3.0	37.9
05-60	6/30/04	280070.206	820980.072	41 38 05.60	70 32 22.39	60	4.2	3.0	37.1
06-00	6/30/04	280057.353	820989.964	41 38 05.93	70 32 22.94	0	0.0	3.0	41.3
06-08	6/30/04	280060.001	820989.353	41 38 05.91	70 32 22.82	8	0.7	3.0	40.6
06-16	6/30/04	280062.183	820988.928	41 38 05.89	70 32 22.73	16	1.3	3.0	40.0
06-24	6/30/04	280064.433	820988.778	41 38 05.89	70 32 22.63	24	1.7	3.0	39.6
06-32	6/30/04	280066.849	820988.577	41 38 05.88	70 32 22.53	32	2.2	3.0	39.1
06-40	6/30/04	280069.110	820988.292	41 38 05.87	70 32 22.43	40	2.7	3.0	38.6
06-50	6/30/04	280072.024	820988.041	41 38 05.86	70 32 22.31	50	3.4	3.0	37.9
06-60	6/30/04	280075.231	820987.667	41 38 05.85	70 32 22.17	60	4.1	3.0	37.2
07-00	6/30/04	280060.944	820996.721	41 38 06.14	70 32 22.78	0	0.0	3.0	41.3
07-08	6/30/04	280063.775	820996.226	41 38 06.13	70 32 22.66	8	0.6	3.0	40.7
07-16	6/30/04	280066.006	820995.773	41 38 06.11	70 32 22.56	16	1.4	3.0	39.9
07-24	6/30/04	280068.499	820995.481	41 38 06.10	70 32 22.45	24	1.8	3.0	39.5
07-32	6/30/04	280070.894	820995.084	41 38 06.09	70 32 22.35	32	2.3	3.0	39.0
07-40	6/30/04	280073.478	820994.623	41 38 06.07	70 32 22.24	40	2.8	3.0	38.5

Table 4. Physical properties of sampling locations and chemical analyses of groundwater samples collected from temporary drive points below the pond bottom, Ashumet Pond, Cape Cod, Massachusetts, June 29–July 2, 2004—continued

[Easting and Northing: State plane coordinates are for North American Datum of 1983 (NAD83). Latitude and longitude in degrees (°), minutes (′), and seconds (″). Altitude refers to distance above or below the National Geodetic Vertical Datum of 1929. Source of nitrogen data: Richard L. Smith, U.S. Geological Survey, National Research Program, Boulder, Colorado, ft. foot; m, meter; $\mu\text{S}/\text{cm}$, microsiemens per centimeter at 25 degrees Celsius; <, actual value less than value shown; >, actual value greater than value shown; --, no data. Pond stage on 6/29/2004 was 44.30 ft. Locations of sites shown in figure 5]

Site identifier	Measured in field, unfiltered			Measured in laboratory, filtered		
	Specific conductance ($\mu\text{S}/\text{cm}$)	Oxygen, dissolved (mg/L)	Orthophosphate (mg/L as P)	Nitrate (mg/L as N)	Nitrite (mg/L as N)	Ammonia (mg/L as N)
01-00	67.2	>2.000	<0.098	0.118	<0.010	<0.070
01-08	205	>2.	1.52	1.75	.021	<0.070
01-16	144	>2.	.950	.075	<0.010	.277
01-24	146	.500	.750	<0.070	<0.010	.320
01-32	188	.215	.110	<0.070	<0.010	--
01-40	214	.300	.540	<0.070	<0.010	.209
01-50	221	.075	.460	<0.070	<0.010	1.07
01-60	204	.100	<.098	.579	<0.010	.415
02-00	104	>2.	.150	1.71	<0.010	<0.070
02-08	147	.055	1.55	<0.070	<0.010	<0.070
02-16	133	.185	1.04	<0.070	<0.010	.273
02-24	163	>2.	.770	<0.070	<0.010	.357
02-32	196	.025	.770	<0.070	<0.010	.618
02-40	214	.150	.690	<0.070	<0.010	1.12
02-50	189	.275	.650	.909	<0.010	.787
02-60	180	.250	.540	1.38	<0.010	.894
03-00	109	>2.	.900	2.13	<0.010	<0.070
03-08	148	.470	.520	.076	<0.010	<0.070
03-16	141	.240	1.17	<0.070	<0.010	.485
03-24	174	.430	.900	<0.070	<0.010	.553
03-32	208	>2.	.720	<0.070	<0.010	.989
03-40	178	.395	.690	.450	<0.010	.880
03-50	192	.575	.470	.606	<0.010	.934
03-60	177	.125	.550	1.65	<0.010	2.64
04-00	141	>2.	.990	2.32	<0.010	<0.070
04-08	153	.410	1.83	.175	<0.010	<0.070
04-16	152	.120	.490	<0.070	<0.010	.763
04-24	155	.110	.690	<0.070	<0.010	.720
04-32	163	.170	.980	.335	<0.010	.821
04-40	182	.105	.330	1.29	<0.010	.977
04-50	177	.100	.669	1.58	<0.010	1.04
04-60	110	.165	.390	1.78	<0.010	1.78
05-00	77.0	>2.	.460	.556	<0.010	<0.070
05-08	191	.150	.340	.367	.006	<0.070
05-16	152	>2.	1.89	<0.070	<0.010	<0.070
05-24	126	>2.	1.94	<0.070	<0.010	1.09
05-32	157	>2.	1.37	.155	<0.010	1.01
05-40	129	>2.	1.08	.738	<0.010	.692
05-50	118	.250	.280	1.09	<0.010	.519
05-60	107	.330	.950	1.87	<0.010	.532
06-00	66.0	>2.	.100	.149	<0.010	<0.070
06-08	178	.335	1.22	.159	<0.010	<0.070
06-16	144	.200	1.55	<0.070	<0.010	<0.070
06-24	131	.160	3.20	.142	<0.010	.804
06-32	138	.340	2.12	<0.070	<0.010	1.11
06-40	160	.435	1.03	.864	<0.010	.810
06-50	126	.185	1.17	1.14	<0.010	.380
06-60	97.0	.350	1.11	1.68	<0.010	--
07-00	65.1	>2.	.100	.214	<0.010	<0.070
07-08	169	.700	.640	.142	<0.010	<0.070
07-16	156	.250	1.96	<0.070	<0.010	.360
07-24	179	>2.	1.81	<0.070	<0.010	1.18
07-32	134	.060	1.09	.212	<0.010	.945
07-40	117	.450	.160	.964	<0.010	.500

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Site identifier	Date sampled	Easting (m)	Northing (m)	Latitude (° ' ")	Longitude (° ' ")	Distance from shore (ft)	Water depth (ft)	Drive depth (ft)	Altitude of bottom of drive point (ft)
07–50	6/30/04	280076.957	820994.144	41 38 06.05	70 32 22.09	50	3.5	3.0	37.8
07–60	6/30/04	280079.378	820993.809	41 38 06.04	70 32 21.98	60	4.0	3.0	37.3
08–00	7/1/04	280065.793	821000.238	41 38 06.26	70 32 22.57	0	0.0	3.0	41.3
08–08	7/1/04	280067.758	821000.433	41 38 06.26	70 32 22.48	8	0.6	3.0	40.7
08–16	7/1/04	280070.102	821000.406	41 38 06.26	70 32 22.38	16	1.2	3.0	40.1
08–24	7/1/04	280072.491	821000.242	41 38 06.25	70 32 22.28	24	1.7	3.0	39.6
08–32	7/1/04	280074.985	820999.943	41 38 06.24	70 32 22.17	32	2.3	3.0	39.0
08–40	7/1/04	280077.555	820999.672	41 38 06.23	70 32 22.06	40	2.9	3.0	38.4
08–50	7/1/04	280080.618	820999.446	41 38 06.23	70 32 21.93	50	3.5	3.0	37.8
08–60	7/1/04	280083.631	820998.945	41 38 06.21	70 32 21.80	60	4.0	3.0	37.3
09–00	7/1/04	280069.665	821007.061	41 38 06.48	70 32 22.40	0	0.0	3.0	41.3
09–08	7/1/04	280072.123	821006.803	41 38 06.47	70 32 22.29	8	0.7	3.0	40.6
09–16	7/1/04	280074.496	821006.537	41 38 06.46	70 32 22.19	16	1.3	3.0	40.0
09–24	7/1/04	280076.671	821006.498	41 38 06.46	70 32 22.10	24	1.7	3.0	39.6
09–32	7/1/04	280079.196	821005.927	41 38 06.44	70 32 21.99	32	2.4	3.0	38.9
09–40	7/1/04	280081.581	821005.782	41 38 06.43	70 32 21.88	40	2.9	3.0	38.4
09–50	7/1/04	280084.640	821005.504	41 38 06.42	70 32 21.75	50	3.6	2.5	38.2
09–60	7/1/04	280087.650	821004.985	41 38 06.40	70 32 21.62	60	4.1	3.0	37.2
10–00	7/1/04	280073.027	821013.714	41 38 06.69	70 32 22.25	0	0.0	3.0	41.3
10–08	7/1/04	280075.768	821012.781	41 38 06.66	70 32 22.13	8	0.7	3.0	40.6
10–16	7/1/04	280077.933	821012.497	41 38 06.65	70 32 22.04	16	1.3	3.0	40.0
10–24	7/1/04	280080.511	821013.915	41 38 06.69	70 32 21.93	24	1.7	3.0	39.6
10–32	7/1/04	280082.813	821013.178	41 38 06.67	70 32 21.83	32	2.2	3.0	39.1
10–40	7/1/04	280085.315	821012.682	41 38 06.65	70 32 21.72	40	2.8	3.0	38.5
10–50	7/1/04	280088.266	821012.201	41 38 06.64	70 32 21.59	50	3.3	3.0	38.0
10–60	7/1/04	280091.531	821011.980	41 38 06.63	70 32 21.45	60	4.1	3.0	37.2
11–00	7/1/04	280077.346	821019.074	41 38 06.86	70 32 22.06	0	0.0	3.0	41.3
11–08	7/1/04	280079.559	821019.182	41 38 06.87	70 32 21.96	8	0.6	3.0	40.7
11–16	7/1/04	280081.355	821020.151	41 38 06.90	70 32 21.89	16	1.4	3.0	39.9
11–24	7/1/04	280083.854	821020.350	41 38 06.90	70 32 21.78	24	1.6	3.0	39.7
11–32	7/1/04	280086.141	821020.581	41 38 06.91	70 32 21.68	32	2.1	3.0	39.2
11–40	7/1/04	280088.669	821020.580	41 38 06.91	70 32 21.57	40	2.7	3.0	38.6
11–50	7/1/04	280092.000	821020.271	41 38 06.90	70 32 21.43	50	3.3	3.0	38.0
11–60	7/1/04	280094.944	821020.689	41 38 06.91	70 32 21.30	60	3.9	3.0	37.4
12–00	7/1/04	280080.257	821025.370	41 38 07.07	70 32 21.93	0	0.0	3.0	41.3
12–08	7/1/04	280082.231	821025.524	41 38 07.07	70 32 21.85	8	0.6	3.0	40.7
12–16	7/1/04	280084.287	821025.748	41 38 07.08	70 32 21.76	16	1.3	3.0	40.0
12–24	7/1/04	280086.690	821026.042	41 38 07.08	70 32 21.65	24	1.8	3.0	39.5
12–32	7/1/04	280089.095	821025.951	41 38 07.08	70 32 21.55	32	2.2	3.0	39.1
12–40	7/1/04	280091.458	821026.491	41 38 07.10	70 32 21.45	40	2.8	3.0	38.5
12–50	7/1/04	280094.446	821026.791	41 38 07.11	70 32 21.32	50	3.3	3.0	38.0
12–60	7/1/04	280097.495	821026.944	41 38 07.11	70 32 21.19	60	4.0	3.0	37.3
13–00	7/2/04	280081.339	821031.397	41 38 07.26	70 32 21.88	0	0.0	3.0	41.3
13–08	7/2/04	280083.654	821030.939	41 38 07.24	70 32 21.78	8	0.8	3.0	40.5
13–16	7/2/04	280086.752	821030.675	41 38 07.24	70 32 21.65	16	1.4	3.0	39.9
13–24	7/2/04	280089.362	821030.591	41 38 07.23	70 32 21.54	24	1.9	3.0	39.4
13–32	7/2/04	280091.554	821030.576	41 38 07.23	70 32 21.44	32	2.5	3.0	38.8
13–40	7/2/04	280094.246	821030.538	41 38 07.23	70 32 21.32	40	3.0	3.0	38.3
13–50	7/2/04	280097.388	821030.374	41 38 07.22	70 32 21.19	50	3.7	3.0	37.6
13–60	7/2/04	280100.631	821030.259	41 38 07.22	70 32 21.05	60	4.4	2.5	37.4
14–00	7/2/04	280087.172	821037.429	41 38 07.45	70 32 21.63	0	0.0	3.5	40.8
14–08	7/2/04	280087.424	821037.973	41 38 07.47	70 32 21.62	8	0.7	3.0	40.6
14–16	7/2/04	280089.741	821037.960	41 38 07.47	70 32 21.52	16	1.5	3.0	39.8
14–24	7/2/04	280092.312	821038.020	41 38 07.47	70 32 21.40	24	1.8	3.0	39.5
14–32	7/2/04	280094.880	821037.534	41 38 07.45	70 32 21.29	32	2.5	3.0	38.8
14–40	7/2/04	280096.884	821037.377	41 38 07.45	70 32 21.21	40	3.0	3.0	38.3
14–50	7/2/04	280100.009	821037.551	41 38 07.45	70 32 21.07	50	3.7	3.0	37.6
14–60	7/2/04	280103.066	821037.306	41 38 07.44	70 32 20.94	60	4.5	3.0	36.8
15–00	7/2/04	280089.266	821043.640	41 38 07.65	70 32 21.53	0	0.0	3.0	41.3

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Site identifier	Measured in field, unfiltered			Measured in laboratory, filtered		
	Specific conductance ($\mu\text{S}/\text{cm}$)	Oxygen, dissolved (mg/L)	Orthophosphate (mg/L as P)	Nitrate (mg/L as N)	Nitrite (mg/L as N)	Ammonia (mg/L as N)
07-50	91.7	0.155	0.950	0.941	<0.010	0.056
07-60	89.4	>2.	.620	1.49	.050	<.070
08-00	63.6	>2.	.130	.131	<.010	<.070
08-08	134	>2.	.490	<.070	<.010	<.070
08-16	173	>2.	2.48	<.070	<.010	.494
08-24	161	.720	1.88	<.070	<.010	.992
08-32	124	.915	1.96	.318	<.010	.535
08-40	109	>2.	1.44	.743	<.010	.245
08-50	82.0	>2.	.650	.660	<.010	<.070
08-60	89.6	>2.	.290	1.08	<.010	<.070
09-00	206	>2.	.620	.322	<.010	<.070
09-08	134	>2.	1.29	<.070	<.010	<.070
09-16	216	.125	1.99	<.070	<.010	1.30
09-24	191	.245	1.11	<.070	<.010	1.06
09-32	107	.695	.830	.513	<.010	<.070
09-40	82.5	>2.	.780	.524	<.010	<.070
09-50	84.0	>2.	.690	.570	<.010	<.070
09-60	85.8	>2.	.460	.583	<.010	<.070
10-00	101	>2.	.700	1.06	<.010	<.070
10-08	148	.625	1.94	<.070	<.010	.025
10-16	213	.095	1.86	<.070	<.010	1.19
10-24	121	.355	1.81	.535	<.010	.563
10-32	71.8	>2.	.730	.386	<.010	<.070
10-40	77.6	>2.	.900	.500	<.010	<.070
10-50	73.6	>2.	.210	.587	<.010	<.070
10-60	90.7	>2.	.420	.517	<.010	<.070
11-00	80.0	>2.	.180	.613	<.010	<.070
11-08	153	>2.	.240	.638	<.010	.317
11-16	134	>2.	.830	.492	<.010	<.070
11-24	68.5	>2.	.910	.467	<.010	<.070
11-32	75.5	>2.	.980	.504	<.010	<.070
11-40	76.2	>2.	.520	.577	<.010	<.070
11-50	92.2	>2.	.390	.491	<.010	<.070
11-60	88.6	>2.	<.098	.473	<.010	<.070
12-00	108	>2.	.160	1.77	<.010	<.070
12-08	159	2.15	.980	.783	<.010	<.070
12-16	99.2	>2.	<.098	.389	<.010	<.070
12-24	75.9	>2.	.460	.499	<.010	<.070
12-32	72.7	>2.	.550	.589	<.010	<.070
12-40	88.2	>2.	.290	.524	<.010	<.070
12-50	88.0	>2.	<.098	.475	<.010	<.070
12-60	91.7	>2.	<.098	.457	<.010	<.070
13-00	101	>2.	.160	.328	<.010	<.070
13-08	164	2.36	.690	.793	<.010	<.070
13-16	74.8	>2.	.570	.378	<.010	<.070
13-24	70.6	>2.	.490	.553	<.010	<.070
13-32	88.3	>2.	.130	.520	<.010	<.070
13-40	87.6	>2.	.200	.493	<.010	<.070
13-50	88.8	>2.	<.098	.453	<.010	<.070
13-60	91.7	>2.	.110	.594	<.010	<.070
14-00	91.3	>2.	.230	.279	<.010	<.070
14-08	176	>2.	.440	.770	<.010	<.070
14-16	67.5	>2.	.410	.357	<.010	<.070
14-24	68.8	>2.	.360	.524	<.010	<.070
14-32	87.4	>2.	.200	.504	<.010	<.070
14-40	91.7	>2.	.150	.533	<.010	<.070
14-50	91.4	>2.	<.098	.506	<.010	<.070
14-60	93.4	>2.	.110	.470	<.010	<.070
15-00	86.0	>2.	<.098	.080	<.010	<.070

Table 4. Physical properties of sampling locations and chemical analyses of groundwater samples collected from temporary drive points below the pond bottom, Ashumet Pond, Cape Cod, Massachusetts, June 29–July 2, 2004—continued

[Easting and Northing: State plane coordinates are for North American Datum of 1983 (NAD83). Latitude and longitude in degrees (°), minutes (′), and seconds (″). Altitude refers to distance above or below the National Geodetic Vertical Datum of 1929. Source of nitrogen data: Richard L. Smith, U.S. Geological Survey, National Research Program, Boulder, Colorado. ft, foot; m, meter; μS/cm, microsiemens per centimeter at 25 degrees Celsius; <, actual value less than value shown; >, actual value greater than value shown; --, no data. Pond stage on 6/29/2004 was 44.30 ft. Locations of sites shown in figure 5]

Site identifier	Date sampled	Easting (m)	Northing (m)	Latitude (° ′ ″)	Longitude (° ′ ″)	Distance from shore (ft)	Water depth (ft)	Drive depth (ft)	Altitude of bottom of drive point (ft)
15–08	7/2/04	280090.941	821044.189	41 38 07.67	70 32 21.46	8	0.8	3.0	40.5
15–16	7/2/04	280093.083	821043.388	41 38 07.64	70 32 21.37	16	1.5	3.0	39.8
15–24	7/2/04	280095.251	821043.585	41 38 07.65	70 32 21.27	24	2.0	3.0	39.3
15–32	7/2/04	280097.468	821045.393	41 38 07.71	70 32 21.18	32	2.5	3.0	38.8
15–40	7/2/04	280099.973	821044.466	41 38 07.68	70 32 21.07	40	3.1	3.0	38.2
15–50	7/2/04	280103.425	821044.267	41 38 07.67	70 32 20.92	50	3.9	3.0	37.4
15–60	7/2/04	280106.350	821044.122	41 38 07.66	70 32 20.79	60	4.2	3.0	37.1

Table 4. Physical properties of sampling locations and chemical analyses of groundwater samples collected from temporary drive points below the pond bottom, Ashumet Pond, Cape Cod, Massachusetts, June 29–July 2, 2004—continued

[Easting and Northing: State plane coordinates are for North American Datum of 1983 (NAD83). Latitude and longitude in degrees (°), minutes (′), and seconds (″). Altitude refers to distance above or below the National Geodetic Vertical Datum of 1929. Source of nitrogen data: Richard L. Smith, U.S. Geological Survey, National Research Program, Boulder, Colorado. ft, foot; m, meter; $\mu\text{S}/\text{cm}$, microsiemens per centimeter at 25 degrees Celsius; <, actual value less than value shown; >, actual value greater than value shown; --, no data. Pond stage on 6/29/2004 was 44.30 ft. Locations of sites shown in figure 5]

Site identifier	Measured in field, unfiltered			Measured in laboratory, filtered		
	Specific conductance ($\mu\text{S}/\text{cm}$)	Oxygen, dissolved (mg/L)	Orthophosphate (mg/L as P)	Nitrate (mg/L as N)	Nitrite (mg/L as N)	Ammonia (mg/L as N)
15-08	185	>2.000	0.230	0.854	<0.010	<0.070
15-16	77.6	>2.	.160	.308	<.010	<.070
15-24	66.7	>2.	<.098	.433	<.010	<.070
15-32	93.2	>2.	.200	.498	<.010	<.070
15-40	80.0	>2.	<.098	.491	<.010	<.070
15-50	99.5	>2.	<.098	.471	<.010	<.070
15-60	92.8	>2.	--	.494	<.010	<.070