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New Hampshire Continental Shelf Geophysical Database: 2016-2017 Field Campaign – Seafloor and Sample Photographs and Sediment Data

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Recommended Citation

Ward, L.G., Morrison, R.C., and McAvoy, Z.S., 2021, New Hampshire Continental Shelf Geophysical Database: 2016-2017 Field Campaign – Seafloor and Sample Photographs and Sediment Data. University of New Hampshire Center for Coastal and Ocean Mapping/Joint Hydrographic Center (CCOM/JHC), 24 Colovos Road, Durham 03824.

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New Hampshire Continental Shelf Geophysical Database: 2016-2017 Field Campaign – Seafloor and Sample Photographs and Sediment Data

Citation:

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Database Description:

The "New Hampshire Continental Shelf Geophysical Database: 2016-2017 Field Campaign - Seafloor and Sample Photographs and Sediment Data " contains photographs of the seafloor from sampling locations, photographs of the sediment samples, and grain size data from a major field campaign conducted in 2016-2017 and from the UNH Ocean Engineering 972 Hydrographic Field Course classes in 2012, 2014, and 2018. In total, sixteen one-day cruises provided 150 samples for grain size analysis. The database provides complete descriptions for each sample including identification, station and sample characteristics, sediment classifications, grain size statistics, and grain size distribution. The grain size data is grouped by survey or location and the year when high-resolution multibeam echosounder bathymetry was run in that area. The Station IDs indicate the type of survey (e.g., SH stands for Summer Hydro) and/or location (NSBE), the year of the bathymetry survey (i.e., 06, 07, etc.), and the station number (e.g., T03, T04, etc. or S01, S02, etc.). Each sample has a "Reliability Ranking for Positioning" which gives an estimate of the uncertainty of the location of the sample classified from 1 to 4. Explanation of uncertainty and the numbering system is given in Ward et al. (2021). Briefly, the uncertainty is as follows: category 1 is <30m; category 2 is 30 to 50m; category 3 is 185 to 463m; and category 4 is 250 to 1000

The stations sampled during the New Hampshire Continental Shelf 2016-2017 Field Campaign were targeted at locations where there was high-resolution bathymetry available. The bathymetry includes MBES surveys conducted by the UNH CCOM/JHC Hydrographic Field Course (Ocean Engineering 972) (all GSH or SH), NOS surveys (NSBE), and lidar surveys by the USGS (Shoals) (see Ward et al., 2021). In this database the stations are grouped by survey or location and year the bathymetry survey was run. The Station IDs indicate the type of survey (e.g., SH, GSH, Shoals) and/or location (NSBE), the year of the bathymetry survey (i.e., 06, 07, etc.), and the station number (e.g., T03, T04, etc. or S01, S02, etc.). In total, sixteen one-day cruises provided 150 samples for grain size analysis.

Presented here are tables with the station locations and types of data available followed by single sample summaries for each sample collected and analyzed. Included in each summary are location information, seafloor photographs, photographs of the sample (in field and laboratory) where available, collection information, sediment classifications, grain size statistics, and grain size distribution. Samples were analyzed with standard sieve and pipette analyses after Folk (1980). The sediment grain size classifications include: CMECS (Coastal and Marine Ecological Classification Standard; FGDC, 2012); Gradistat (Blot and Pye, 2001); and Wentworth (Wentworth, 1922; described in Folk, 1954, 1980). Statistics are based on the phi scale and include the graphic mean, sorting, skewness, and kurtosis (Folk, 1980).

Acknowledgements:

The development of this database and an associated report “Surficial Geology of the Continental Shelf off New Hampshire, USA: Morphologic Features and Surficial Sediments” was supported by the University of New Hampshire/National Oceanic and Atmospheric Administration Joint Hydrographic Center Award Number NA15NOS4000200 and the Bureau of Ocean Energy Management Award Number M14AC00010.

References:

Blott, S.J. and Pye, K., 2001, Gradistat: A grain size distribution and statistics package for the analysis of unconsolidated sediments: *Earth Surface Processes and Landforms*, v. 26, no. 11, pp. 1237–1248. DOI: 10.1002/esp.261, Accessed March 1, 2020: <http://www.kpal.co.uk/gradistat.html>

FGDC (Federal Geographic Data Committee, Marine and Coastal Spatial Data Subcommittee), 2012, Coastal and Marine Ecological Classification Standard: FGDC-STD-018-2012, Washington, DC, 343 pp., https://www.fgdc.gov/standards/projects/cmecs-folder/CMECS_Version_06-2012_FINAL.pdf

Folk, R.L., 1954, The distinction between grain size and mineral composition in sedimentary-rock nomenclature: *The Journal of Geology*, vol. 62, number 4, pp. 344-359. DOI: 10.1086/626171

Folk, R.L., 1980, *Petrology of sedimentary rocks*: Hemphill Publishing Company, Austin, TX. 182 pp. Accessed May 2019, available online at <https://repositories.lib.utexas.edu/handle/2152/22930>

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Wentworth, C., 1922, A scale of grade and class terms for clastic sediments: *The Journal of Geology*, v. 30, no. 5, pp. 377–392. Accessed May 2019, available online at <https://www.jstor.org/stable/30063207>

Station Locations and Sampling History

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
GSH06_T03	43.066875	-70.670733	11.0	8/1/2017	Y	Y	Y
GSH06_T04	43.071793	-70.660163	15.2	8/1/2017	Y	Y	Y
GSH06_T06	43.078768	-70.656497	10.0	8/1/2017	Y		
GSH06_T07	43.088600	-70.653268	8.5	8/1/2017	Y	Y	Y
Shoals07_S01	42.872299	-70.805992	9.4	10/13/2016	Y		
Shoals07_S02	42.868036	-70.810027	8.5	10/13/2016	Y	Y	Y
Shoals07_S03	42.868160	-70.803958	9.1	10/13/2016	Y		
Shoals07_S04	42.864090	-70.806587	14.6	10/13/2016	Y		
Shoals07_S05	42.861377	-70.806588	9.1	10/13/2016	Y		
Shoals07_S06	42.858927	-70.806217	15.8	10/13/2016	Y		
Shoals07_S07	42.855850	-70.807233	13.4	10/13/2016	Y	Y	Y
Shoals07_S08	42.855847	-70.803396	16.8	10/13/2016	Y	Y	Y
Shoals07_S09	42.854926	-70.805300	12.0	10/6/2016	Y	Y	Y
Shoals07_S09-2	42.854691	-70.805010	11.9	10/13/2016	Y		
Shoals07_S11	42.849072	-70.805784	13.4	10/6/2016	Y	Y	Y
Shoals07_S11-2	42.849118	-70.805506	12.2	10/13/2016	Y		
Shoals07_S12	42.846389	-70.805687	11.3	10/6/2016	Y		
Shoals07_S13	42.843429	-70.801355	15.2	10/6/2016	Y	Y	Y
Shoals07_S13-2	42.843243	-70.801207	14.0	10/13/2016	Y		
Shoals07_S14	42.829714	-70.805199	8.8	10/6/2016	Y	Y	Y
Shoals07_S14-3	42.829303	-70.805617	7.6	10/13/2016	Y		
GSH12_T01	43.061225	-70.665870	20.1	8/1/2017	Y		
GSH12_T02	43.065934	-70.661847	16.8	8/1/2017	Y		
GSH12_T03	43.062239	-70.659768	14.9	8/1/2017	Y		
GSH12_T05	43.054176	-70.655580	18.9	8/1/2017	Y		
GSH12_T06	43.050548	-70.655044	29.9	8/1/2017	Y	Y	Y
GSH12_T08	43.065093	-70.650458	12.8	8/1/2017	Y		
GSH12_T09	43.060070	-70.648875	20.7	7/19/2017	Y		
GSH12_T10	43.053340	-70.643997	26.8	7/19/2017	Y	Y	Y
GSH12_T11	43.047794	-70.642528	29.0	7/19/2017	Y		
GSH12_T12	43.044385	-70.635119	32.0	7/19/2017	Y	Y	Y

Station Locations and Sampling History: Continued

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
GSH12_T13	43.074722	-70.651201	10.7	7/19/2017	Y		
GSH12_T14	43.068737	-70.643519	16.8	8/1/2017	Y		
GSH12_T15	43.063468	-70.640147	14.6	8/1/2017	Y		
GSH12_T16	43.050815	-70.631221	20.4	7/19/2017	Y		
GSH12_T17	43.062383	-70.631459	26.5	7/19/2017	Y	Y	Y
GSH12_T18	43.078743	-70.645144	15.2	8/1/2017	Y	Y	Y
GSH12_T19	43.082730	-70.646555	10.1	8/1/2017	Y		
GSH12_T20	43.082758	-70.650398	14.3	8/1/2017	Y	Y	Y
GSH12_T21	43.088377	-70.645729	18.3	8/1/2017	Y	Y	Y
GSH12_T22	43.091586	-70.650512	9.4	7/19/2017	Y	Y	Y
GSH12_T23	43.095915	-70.645111	12.2	7/19/2017	Y	Y	Y
GSH12_T24	43.089942	-70.655696	7.3	8/1/2017	Y	Y	Y
GSH12_T50	43.055388	-70.628376	30.5	7/19/2017	Y		
GSH12_T51	43.055253	-70.623333	33.2	7/19/2017	Y	Y	Y
GSH12_T52	43.056485	-70.632533	18.3	7/19/2017	Y		
SH12-01-A	43.048528	-70.649317	27.1	6/28/2012	Y	Y	
SH12-02	43.053003	-70.644819	23.5	6/28/2012	Y	Y	Y
SH12-03-A	43.052022	-70.641728	17.1	6/28/2012	Y		
SH12-03-B	43.051731	-70.641808	17.1	6/28/2012	Y		
SH12-03-C	43.052122	-70.641561	N/A	6/28/2012	Y		
SH12-04	43.048156	-70.639286	24.4	6/28/2012	Y	Y	Y
SH12-05	43.043894	-70.634703	32.6	6/28/2012	Y	Y	Y
SH12-06-A	43.050539	-70.632264	21.6	6/28/2012	Y		
SH12-06-B	43.050553	-70.632428	N/A	6/28/2012	Y		
SH12-07	43.050233	-70.629839	N/A	6/28/2012	Y		
SH12-08	43.052706	-70.624306	33.2	6/28/2012	Y	Y	
SH12-09	43.055544	-70.623825	33.5	6/28/2012	Y	Y	Y
SH12-10	43.061981	-70.649350	N/A	6/28/2012	Y	Y	
SH12-11	43.057017	-70.650367	N/A	6/28/2012	Y	Y	Y
SH12-12	43.094919	-70.639372	N/A	6/28/2012	Y	Y	Y
SH12-13	43.097294	-70.648036	10.1	6/28/2012	Y	Y	Y
SH12-14	43.096169	-70.646881	11.3	6/28/2012	Y	Y	Y
SH12-15-A	43.093869	-70.648525	8.2	6/28/2012	Y		
SH12-15-B	43.093020	-70.647627	13.7	6/28/2012	Y	Y	Y
SH12-16	43.091936	-70.651581	8.8	6/28/2012	Y	Y	Y
SH12-17	43.063233	-70.663283	22.6	6/28/2012	Y	Y	Y

Station Locations and Sampling History: Continued

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
GSH13-T10	43.026381	-70.714468	11.0	7/17/2017	Y		
GSH13-T11	43.024318	-70.713641	13.4	7/17/2017	Y	Y	Y
GSH13-T13	43.022075	-70.719898	11.0	7/17/2017	Y	Y	Y
GSH13-T14	43.020354	-70.722841	9.4	7/17/2017	Y	Y	Y
GSH13-T15	43.017187	-70.719325	15.5	7/17/2017	Y	Y	Y
GSH13-T16	43.014625	-70.722427	13.4	7/17/2017	Y		
GSH13-T17	43.014386	-70.726680	8.5	7/17/2017	Y	Y	Y
GSH14_T12	42.992188	-70.726966	17.1	7/18/2017	Y		
GSH14_T14	42.983649	-70.738158	15.8	7/18/2017	Y	Y	Y
GSH14_T15	42.982267	-70.736127	18.9	7/18/2017	Y	Y	Y
GSH14_T16	42.978441	-70.736979	19.8	7/18/2017	Y	Y	Y
GSH14_T17	42.977165	-70.740457	19.5	11/1/2016	Y	Y	Y
GSH14_T18	42.974451	-70.743121	17.4	11/1/2016	Y		
GSH14_T19	42.972294	-70.745278	16.2	11/1/2016	Y		
GSH14_T20	42.974777	-70.749365	17.4	11/1/2016	Y	Y	Y
GSH14_T21	42.974018	-70.750086	15.8	7/18/2017	Y		
GSH14_T23	42.978113	-70.746629	15.8	11/1/2016	Y		
GSH14_T24	42.979850	-70.745290	14.9	7/18/2017	Y	Y	Y
GSH14_T25	42.981999	-70.745452	15.2	11/1/2016	Y		
GSH14_T27	42.986960	-70.743435	12.2	7/18/2017	Y		
GSH14_T35	42.979467	-70.742292	16.5	7/18/2017	Y	Y	Y
GSH14_T36	42.979925	-70.752487	8.2	7/18/2017	Y	Y	Y
SH14_BS-01A	42.972965	-70.743245	15.8	6/30/2014	Y		
SH14_BS-02	42.979475	-70.741855	18.3	6/30/2014	Y	Y	Y
SH14_BS-Extra	42.983121	-70.752974	8.1	6/30/2014	Y	Y	
SH14_BS-03A	42.983972	-70.736481	20.3	6/30/2014	Y	Y	Y
SH14_BS-03B	42.983936	-70.736288	20.9	6/30/2014	Y	Y	Y
SH14_BS-04A	42.990993	-70.731050	16.9	6/30/2014	Y	Y	
SH14_BS-04B	42.991207	-70.731278	16.8	6/30/2014	Y		
SH14_BS-05	42.996231	-70.740064	10.6	6/30/2014	Y	Y	Y
SH14_BS-06	42.995856	-70.728489	17.7	7/1/2014	Y	Y	Y
SH14_BS-07	43.000470	-70.727247	16.5	7/1/2014	Y	Y	Y
SH14_BS-08	43.000737	-70.722898	19.8	7/1/2014	Y	Y	Y
SH14_BS-09	43.006318	-70.720523	8.8	7/1/2014	Y	Y	Y
SH14_BS-10	43.008803	-70.714451	20.7	7/1/2014	Y	Y	Y
SH14_BS-11	42.996592	-70.727623	17.4	7/1/2014	Y	Y	
GSH15_T01	42.930871	-70.790805	7.6	11/1/2016	Y	Y	Y

Station Locations and Sampling History: Continued

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
GSH15_T02	42.926577	-70.790042	8.8	11/1/2016	Y	Y	Y
GSH15_T04	42.943020	-70.777881	14.3	11/1/2016	Y		
GSH15_T05	42.947430	-70.775635	13.1	11/1/2016	Y	Y	Y
GSH15_T06	42.941297	-70.771655	15.2	11/1/2016	Y		
GSH15_T07	42.935006	-70.767757	21.9	10/6/2016	Y	Y	Y
GSH15_T08	42.932906	-70.773033	20.1	11/1/2016	Y	Y	Y
GSH15_T09	42.927505	-70.777355	18.3	11/1/2016	Y		
GSH15_T10	42.922464	-70.780157	15.8	10/6/2016	Y	Y	Y
GSH15_T12	42.924009	-70.786317	12.2	11/1/2016	Y		
GSH15_T14	42.944763	-70.761670	23.5	11/1/2016	Y	Y	Y
GSH15_T15	42.941103	-70.762389	82.0	11/1/2016	Y	Y	Y
GSH15_T17	42.951865	-70.764080	14.3	11/1/2016	Y		
GSH15_T18	42.957298	-70.767873	9.8	11/1/2016	Y		
GSH15_T19	42.955194	-70.761460	12.8	11/1/2016	Y		
GSH16-T01	43.045297	-70.697871	16.8	7/10/2017	Y	Y	Y
GSH16-T02	43.042899	-70.697748	17.1	7/10/2017	Y	Y	Y
GSH16-T03	43.041998	-70.694267	16.2	7/10/2017	Y	Y	Y
GSH16-T04	43.039079	-70.686425	21.3	7/10/2017	Y	Y	Y
GSH16-T05	43.035313	-70.683228	25.9	7/10/2017	Y	Y	Y
GSH16-T06	43.031908	-70.682273	27.7	7/10/2017	Y	Y	Y
GSH16-T07	43.026767	-70.677968	25.9	7/11/2017	Y	Y	Y
GSH16-T08	43.022048	-70.682323	23.5	7/11/2017	Y		
GSH16-T09	43.018776	-70.687632	18.3	7/11/2017	Y		
GSH16-T10	43.021826	-70.702667	8.8	7/11/2017	Y		
GSH16-T11	43.024464	-70.704939	18.9	7/11/2017	Y	Y	Y
GSH16-T12	43.025693	-70.710856	15.8	7/11/2017	Y	Y	Y
GSH16-T13	43.030201	-70.708662	16.5	7/11/2017	Y		
GSH16-T14	43.030153	-70.702878	17.7	7/11/2017	Y	Y	Y
GSH16-T15	43.031050	-70.698484	17.7	7/11/2017	Y	Y	Y
GSH16-T16	43.033065	-70.698736	16.8	7/11/2017	Y		
GSH16-T17	43.033956	-70.693845	18.3	7/11/2017	Y	Y	Y
GSH16-T18	43.036400	-70.695581	16.8	7/11/2017	Y	Y	Y
GSH16-TS06	42.855997	-70.794752	18.0	10/13/2016	Y	Y	Y
GSH16-TS09	42.857124	-70.799412	16.5	10/13/2016	Y	Y	Y
GSH16-TS10	42.853463	-70.799742	17.4	10/13/2016	Y	Y	Y
SH18-T01	43.110880	70.621355	25.0	7/9/2018	Y	Y	Y
SH18-T02	43.111675	70.624758	18.2	7/9/2018	Y	Y	

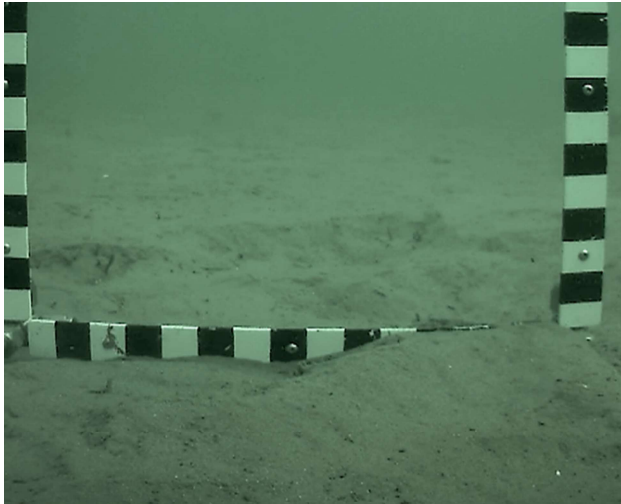
Station Locations and Sampling History: Continued

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
SH18-T03	43.112021	70.617811	22.5	7/9/2018	Y	Y	
SH18-T04	43.115655	70.625815	13.6	7/9/2018	Y	Y	
SH18-T05	43.097957	70.635421	14.7	7/9/2018	Y	Y	
SH18-T06	43.098228	70.630833	14.7	7/9/2018	Y	Y	
SH18-T07	43.100331	70.629278	21.3	7/9/2018	Y	Y	Y
SH18-T08	43.098002	70.625083	22.3	7/9/2018	Y		
SH18-T09	43.095290	70.627049	20.0	7/9/2018	Y	Y	Y
SH18-T10	43.085579	70.636676	27.1	7/9/2018	Y	Y	Y
SH18-T11	43.078903	70.640364	13.9	7/9/2018	Y	Y	
SH18-T12	43.075575	70.638538	10.3	7/9/2018	Y		
NSBE-T01	42.968322	-70.660788	43.6	8/8/2017	Y	Y	Y
NSBE-T02	42.971764	-70.653901	40.5	8/8/2017	Y	Y	Y
NSBE-T03	42.976383	-70.643870	35.7	8/7/2017	Y	Y	Y
NSBE-T04	42.990159	-70.638573	20.7	8/7/2017	Y	Y	Y
NSBE-T05	42.986699	-70.645589	24.4	8/7/2017	Y	Y	Y
NSBE-T06	42.981125	-70.655257	26.8	8/7/2017	Y		
NSBE-T06a	42.980573	-70.655550	27.1	8/7/2017	Y	Y	Y
NSBE-T07	42.977264	-70.669788	24.7	8/7/2017	Y		
NSBE-T08	42.980381	-70.672999	21.0	8/7/2017	Y		
NSBE-T09a	42.981201	-70.677443	21.9	8/7/2017	Y		
NSBE-T10	42.976370	-70.678328	37.5	8/7/2017	Y	Y	Y
NSBE-T11	42.981649	-70.686066	30.8	8/8/2017	Y		
NSBE-T12	42.984786	-70.685358	32.3	8/8/2017	Y	Y	Y
NSBE-T13	42.987658	-70.660873	30.5	8/8/2017	Y	Y	Y
NSBE-T14	42.990282	-70.668139	26.8	8/8/2017	Y	Y	Y
NSBE-T15	42.991793	-70.674793	29.9	8/8/2017	Y	Y	Y
NSBE-T16	42.996550	-70.670892	33.5	8/8/2017	Y		
NSBE-T17	42.991445	-70.689473	19.5	8/16/2017	Y		
NSBE-T18	42.990468	-70.695505	17.4	8/16/2017	Y		
NSBE-T19	42.989167	-70.699695	21.3	8/8/2017	Y		
NSBE-T20	42.987371	-70.694519	25.3	8/8/2017	Y	Y	Y
NSBE-T21a	42.991405	-70.702695	27.4	8/8/2017	Y	Y	Y
NSBE-T22	43.001453	-70.657417	19.2	8/15/2017	Y		
NSBE-T23	43.005541	-70.668076	17.1	8/15/2017	Y		
NSBE-T24	43.011734	-70.676721	18.9	8/16/2017	Y		
NSBE-T25	43.009708	-70.664556	27.7	8/15/2017	Y		
NSBE-T26	43.003448	-70.672623	26.8	8/15/2017	Y		
NSBE-T27	43.015685	-70.676396	27.4	8/16/2017	Y		

Station Locations and Sampling History: Continued

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
NSBE-T28	42.978978	-70.674840	19.8	8/15/2017	Y		
NSBE-T29	42.979621	-70.679554	26.5	8/15/2017	Y	Y	Y
NSBE-T30	42.985811	-70.671644	26.2	8/15/2017	Y	Y	Y
NSBE-T31	42.987403	-70.669282	33.5	8/15/2017	Y		
NSBE-T32	42.985106	-70.663309	34.7	8/15/2017	Y	Y	Y
NSBE-T33	42.984001	-70.673906	20.1	8/15/2017	Y		
NSBE-T34	42.982058	-70.702832	18.9	8/16/2017	Y		
NSBE-T35	42.990936	-70.712882	13.7	8/16/2017	Y		
NSBE-T36	42.995784	-70.710278	25.6	8/16/2017	Y	Y	Y
NSBE-T37	42.997882	-70.688657	14.3	8/16/2017	Y		
NSBE-T38	43.000245	-70.701154	14.6	8/16/2017	Y		
NSBE-T39	43.005076	-70.694332	23.5	8/16/2017	Y	Y	Y
NSBE-T40	42.973863	-70.698420	32.9	8/16/2017	Y	Y	Y
NSBE-T41	42.983621	-70.710607	16.8	8/16/2017	Y		
NSBE-T42	42.971760	-70.670194	37.2	8/16/2017	Y	Y	Y
NSBE-T43	43.007699	-70.664900	27.4	8/15/2017	Y		
NSBE-T45	43.026969	-70.648673	33.5	8/16/2017	Y	Y	Y
NSBE-T47	43.006194	-70.679682	26.8	8/16/2017	Y		
NSBE-T52	43.022767	-70.666995	21.6	8/16/2017	Y		
NSBE-T59	42.998502	-70.648205	27.4	8/15/2017	Y		
NSBE-T60	42.995995	-70.652881	21.9	8/15/2017	Y		
NSBE-T61	42.992317	-70.659907	30.2	8/16/2017	Y	Y	Y
NSBE-T62	42.985456	-70.653036	23.8	8/15/2017	Y	Y	Y
NSBE-T64	42.978964	-70.663495	25.6	8/15/2017	Y	Y	Y

GSH06-T03



Sample 1

Station Information

Latitude, Longitude:	42.930871	-70.670733
Water Depth (m):	11.0	
Sample Weight (g):	79.8	
Date Collected, Analyzed:	8/1/2017	2/12/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Very Fine Sand

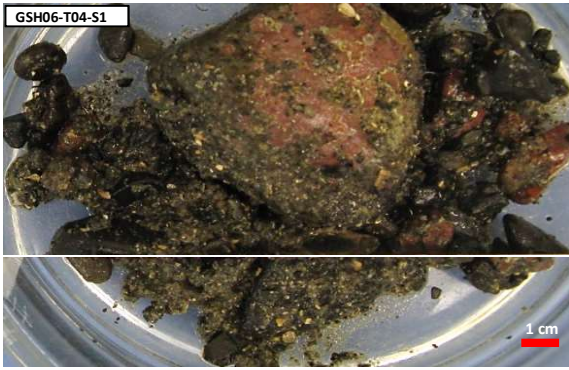
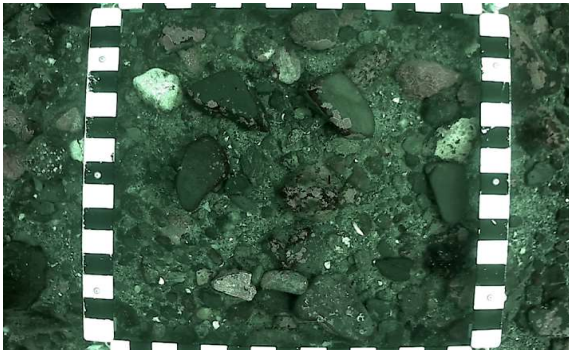
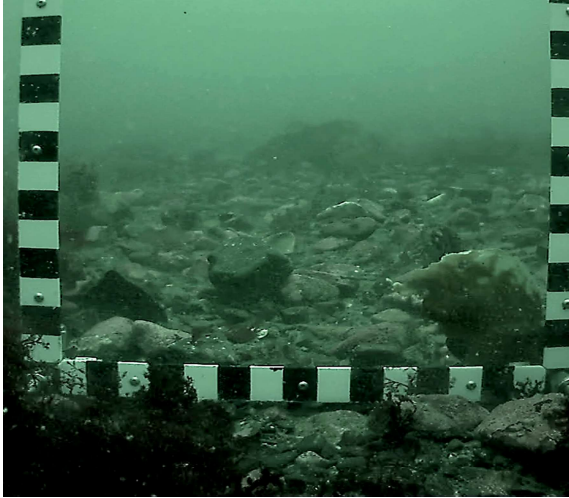
Statistics

Gravel %:	0.1
Pebble %:	0.0
Granule %:	0.1
Sand %:	96.3
Mud %:	3.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.31
Mean size (mm):	0.10
Sorting (phi):	0.405
Skewness (phi):	0.060
Kurtosis (phi):	1.204
D ₁₀ (phi):	2.74
D ₁₀ (mm):	0.15
D ₅₀ (phi):	3.28
D ₅₀ (mm):	0.10
LOI % (450°C):	0.5

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.03
-1	0.04
-0.5	0.01
0	0.01
0.5	0.02
1	0.08
1.5	0.22
2	0.39
2.5	0.96
3	16.09
3.5	54.43
4	24.05
>4	3.68
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH06-T04



Station Information

Latitude, Longitude:	43.071793	-70.660163	43.071747	-70.660160
Water Depth (m):	15.2		15.2	
Sample Weight (g):	495.7		334.8	
Date Collected, Analyzed:	8/1/2017	5/23/2018	8/1/2017	2/12/2018

Sample 1

Sample 2

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate	Coarse Unconsol. Substrate
Group:	Gravel	Gravel
Subgroup:	Pebble Gravel	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel	Gravel
Textural Group (SZC):	N/A	N/A
Sediment Name:	Very Coarse Gravel	Medium Gravel
Mean Size:	Coarse Gravel	Fine Gravel
Sorting:	Poorly Sorted	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel	Pebble Gravel
Mean Size:	Pebble Gravel	Pebble Gravel

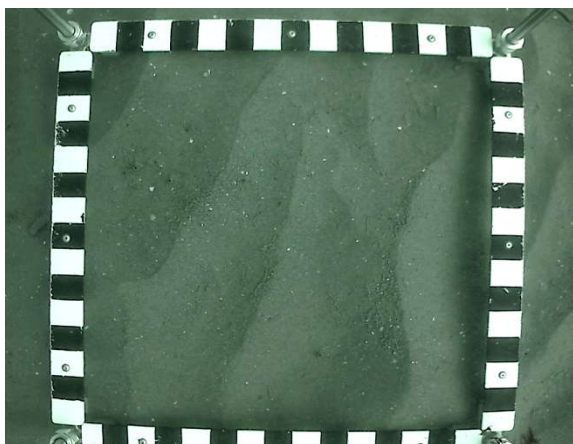
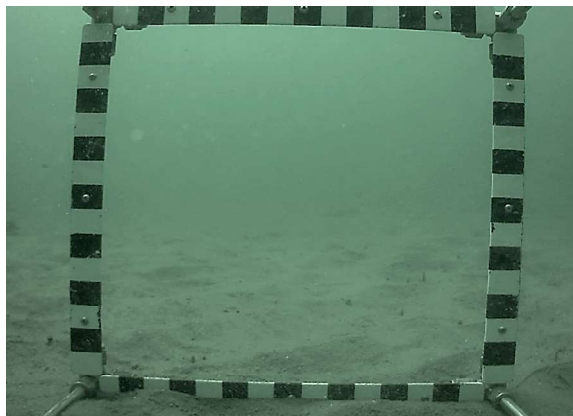
Statistics

Gravel %:	90.5	80.4
Pebble %:	88.6	67.2
Granule %:	2.0	13.2
Sand %:	9.1	18.9
Mud %:	0.4	0.7
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	N/A	N/A
Mode 1 (phi):	N/A	N/A
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	-4.74	-2.70
Mean size (mm):	26.78	6.48
Sorting (phi):	1.749	1.987
Skewness (phi):	0.823	0.381
Kurtosis (phi):	1.207	1.184
D ₁₀ (phi):	-5.88	-4.66
D ₁₀ (mm):	58.93	25.25
D ₅₀ (phi):	-5.50	-3.04
D ₅₀ (mm):	45.10	8.23
LOI % (450°C):	N/A	0.5

Size Distribution (phi)

(phi)	(%)	(%)
-5.5	50.31	0.00
-5	0.00	0.00
-4.5	15.16	15.42
-4	0.00	3.46
-3.5	8.86	16.37
-3	9.05	16.12
-2.5	3.52	9.37
-2	1.64	6.45
-1.5	1.18	6.93
-1	0.79	6.24
-0.5	0.78	5.24
0	0.95	2.93
0.5	1.54	1.81
1	1.96	1.62
1.5	1.58	1.41
2	0.85	1.42
2.5	0.38	1.15
3	0.38	1.25
3.5	0.46	1.41
4	0.19	0.70
>4	0.40	0.71
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

GSH06-T07



Station Information

Latitude, Longitude:	43.088600	-70.653268	43.088606	-70.653326
Water Depth (m):	8.5		8.5	
Sample Weight (g):	135.4		98.3	
Date Collected, Analyzed:	8/1/2017	5/23/2018	8/1/2017	2/12/2018

Sample 1

Sample 2

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Pebbly	Slightly Granuley
Subgroup:	Slightly Pebbly Fine Sand	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand	Fine Sand
Sorting:	Well Sorted	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand	Slightly Granular Fine Sand
Mean Size:	Fine Sand	Fine Sand

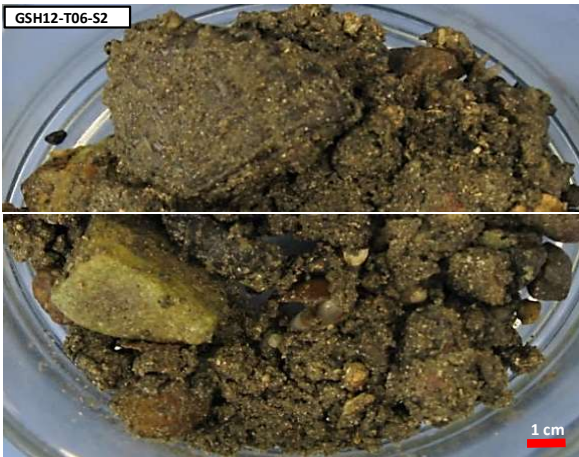
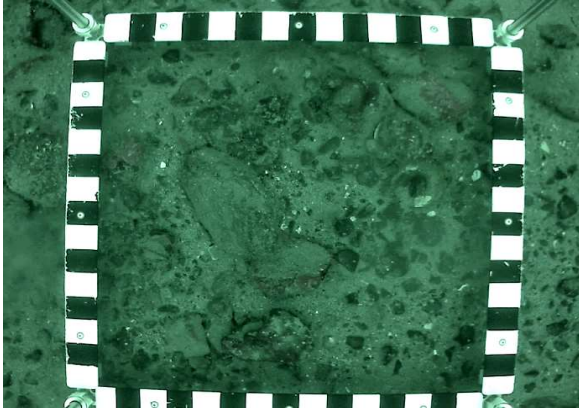
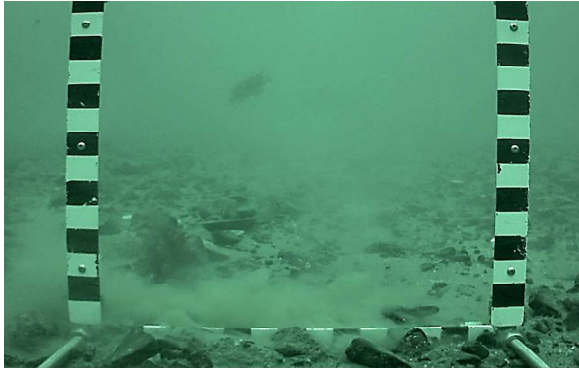
Statistics

Gravel %:	0.7	0.5
Pebble %:	0.7	0.2
Granule %:	0.0	0.3
Sand %:	98.8	98.9
Mud %:	0.5	0.6
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	2.74	2.74
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	2.87	2.90
Mean size (mm):	0.14	0.13
Sorting (phi):	0.378	0.391
Skewness (phi):	0.058	0.037
Kurtosis (phi):	1.102	0.992
D ₁₀ (phi):	2.46	2.48
D ₁₀ (mm):	0.18	0.18
D ₅₀ (phi):	2.82	2.86
D ₅₀ (mm):	0.14	0.14
LOI % (450°C):	0.4	0.3

Size Distribution (phi)

(phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.69	0.00
-2.5	0.00	0.00
-2	0.00	0.19
-1.5	0.00	0.26
-1	0.00	0.05
-0.5	0.01	0.03
0	0.07	0.06
0.5	0.09	0.10
1	0.22	0.28
1.5	0.47	0.55
2	1.33	1.09
2.5	7.37	7.31
3	59.67	54.51
3.5	26.99	30.80
4	2.61	4.17
>4	0.48	0.62
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

GSH12-T06



Sample 1

Sample 2

Station Information

Latitude, Longitude:	43.050548	-70.655044
Water Depth (m):	29.9	
Sample Weight (g):	1071.1	
Date Collected, Analyzed:	8/7/2017	2/12/2018

Latitude, Longitude:	43.050665	-70.654846
Water Depth (m):	29.3	
Sample Weight (g):	861.1	
Date Collected, Analyzed:	8/7/2017	5/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravel
Mean Size:	Fine Gravel
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Very Coarse Gravel
Mean Size:	Medium Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

Statistics

Gravel %:	80.1
Pebble %:	77.1
Granule %:	3.0
Sand %:	17.9
Mud %:	2.0
Silt %:	1.3
Clay %:	0.8
Modes:	Bimodal
Mode 1 (phi):	-4.73
Mode 2 (phi):	2.24
Mode 3 (phi):	N/A
Mean size (phi):	-2.69
Mean size (mm):	6.47
Sorting (phi):	2.552
Skewness (phi):	0.581
Kurtosis (phi):	1.411
D ₁₀ (phi):	-5.09
D ₁₀ (mm):	34.13
D ₅₀ (phi):	-3.72
D ₅₀ (mm):	13.15
LOI % (450°C):	N/A

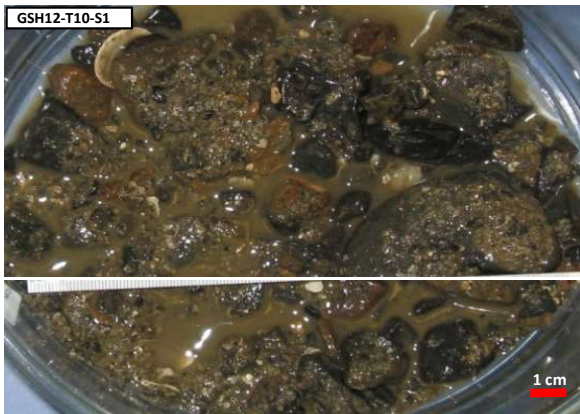
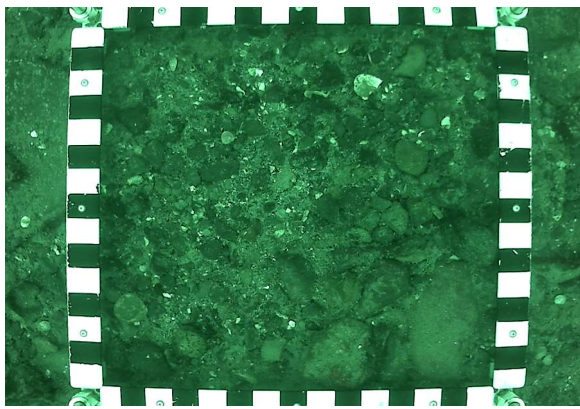
Gravel %:	84.8
Pebble %:	83.4
Granule %:	1.4
Sand %:	13.6
Mud %:	1.6
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-5.38
Mode 2 (phi):	2.24
Mode 3 (phi):	N/A
Mean size (phi):	-3.74
Mean size (mm):	13.34
Sorting (phi):	2.259
Skewness (phi):	0.402
Kurtosis (phi):	1.634
D ₁₀ (phi):	-5.74
D ₁₀ (mm):	53.52
D ₅₀ (phi):	-4.06
D ₅₀ (mm):	16.71
LOI % (450°C):	0.9

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	12.91
-4.5	21.45
-4	4.27
-3.5	20.70
-3	10.25
-2.5	5.09
-2	2.41
-1.5	1.73
-1	1.31
-0.5	1.29
0	1.09
0.5	1.29
1	2.24
1.5	2.65
2	2.87
2.5	3.11
3	2.26
3.5	0.66
4	0.39
>4	N/A
5	0.60
6	0.31
7	0.19
8	0.17
9	0.16
10	0.14
Smaller than 10	0.47

(phi)	(%)
-5.5	20.63
-5	7.13
-4.5	10.70
-4	13.26
-3.5	13.91
-3	12.22
-2.5	4.38
-2	1.15
-1.5	0.72
-1	0.72
-0.5	0.77
0	0.67
0.5	0.79
1	1.28
1.5	1.91
2	2.68
2.5	2.71
3	1.92
3.5	0.58
4	0.27
>4	1.60
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH12-T10



Station Information

Latitude, Longitude:	43.053340	-70.643997
Water Depth (m):	26.8	
Sample Weight (g):	301.2	
Date Collected, Analyzed:	7/19/2017	2/5/2018

Sample 1

Sample 2

Latitude, Longitude:	43.053312	-70.643906
Water Depth (m):	26.5	
Sample Weight (g):	381.8	
Date Collected, Analyzed:	7/19/2017	2/5/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravel
Mean Size:	Fine Gravel
Sorting:	Poorly Sorted

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravel
Mean Size:	Medium Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel	Pebble Gravel
Mean Size:	Pebble Gravel	Pebble Gravel

Statistics

Gravel %:	84.3
Pebble %:	83.8
Granule %:	0.6
Sand %:	15.1
Mud %:	0.6
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	-3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-2.80
Mean size (mm):	6.97
Sorting (phi):	1.310
Skewness (phi):	0.537
Kurtosis (phi):	2.578
D ₁₀ (phi):	-3.24
D ₁₀ (mm):	9.47
D ₅₀ (phi):	-3.06
D ₅₀ (mm):	8.32
LOI % (450°C):	0.7

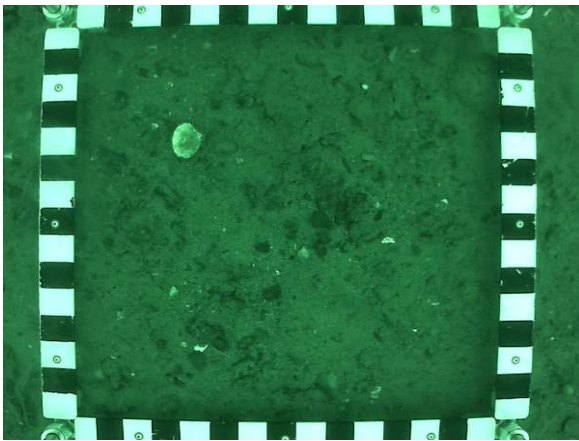
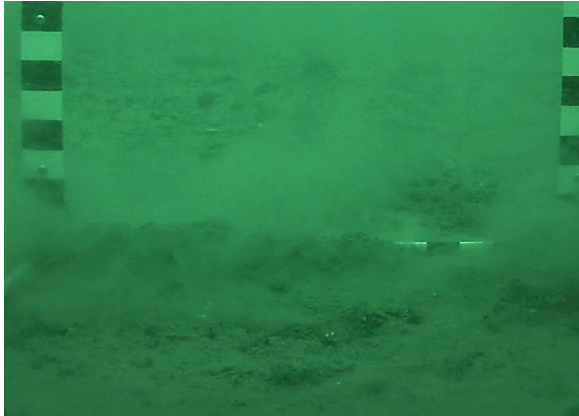
Gravel %:	83.17
Pebble %:	77.7
Granule %:	5.5
Sand %:	16.33
Mud %:	0.5
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-5.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	-3.14
Mean size (mm):	8.80
Sorting (phi):	2.111
Skewness (phi):	0.296
Kurtosis (phi):	1.036
D ₁₀ (phi):	-5.29
D ₁₀ (mm):	39.23
D ₅₀ (phi):	-3.40
D ₅₀ (mm):	10.54
LOI % (450°C):	0.5

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	2.75
-3.5	18.89
-3	32.10
-2.5	25.29
-2	4.72
-1.5	0.44
-1	0.13
-0.5	1.64
0	2.36
0.5	2.38
1	2.17
1.5	2.04
2	2.24
2.5	1.50
3	0.53
3.5	0.11
4	0.11
>4	0.60
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(phi)	(%)
-5.5	0.00
-5	25.95
-4.5	5.99
-4	2.55
-3.5	12.14
-3	18.63
-2.5	8.21
-2	4.23
-1.5	2.94
-1	2.51
-0.5	2.69
0	2.59
0.5	2.56
1	2.32
1.5	2.10
2	2.36
2.5	1.20
3	0.39
3.5	0.06
4	0.05
>4	0.50
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH12-T12



Station Information

Latitude, Longitude:	43.044385	-70.635119
Water Depth (m):	32.0	
Sample Weight (g):	259.0	
Date Collected, Analyzed:	7/19/2017	2/12/2018

Sample 1

Latitude, Longitude:	43.044385	-70.635119
Water Depth (m):	32.0	
Sample Weight (g):	259.0	
Date Collected, Analyzed:	7/19/2017	2/12/2018

Sample 2

Latitude, Longitude:	43.044436	-70.635434
Water Depth (m):	32.0	
Sample Weight (g):	361.0	
Date Collected, Analyzed:	7/19/2017	2/12/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Pebble Gravel

Statistics

Gravel %:	45.1
Pebble %:	39.6
Granule %:	5.4
Sand %:	51.7
Mud %:	3.2
Silt %:	1.5
Clay %:	1.6
Modes:	Bimodal
Mode 1 (phi):	-3.24
Mode 2 (phi):	1.75
Mode 3 (phi):	N/A
Mean size (phi):	-0.42
Mean size (mm):	1.34
Sorting (phi):	2.483
Skewness (phi):	-0.082
Kurtosis (phi):	0.568
D ₁₀ (phi):	-3.62
D ₁₀ (mm):	12.26
D ₅₀ (phi):	-0.20
D ₅₀ (mm):	1.15
LOI % (450°C):	0.6

Gravel %:	45.1
Pebble %:	39.6
Granule %:	5.4
Sand %:	51.7
Mud %:	3.2
Silt %:	1.5
Clay %:	1.6
Modes:	Bimodal
Mode 1 (phi):	-3.24
Mode 2 (phi):	1.75
Mode 3 (phi):	N/A
Mean size (phi):	-0.42
Mean size (mm):	1.34
Sorting (phi):	2.483
Skewness (phi):	-0.082
Kurtosis (phi):	0.568
D ₁₀ (phi):	-3.62
D ₁₀ (mm):	12.26
D ₅₀ (phi):	-0.20
D ₅₀ (mm):	1.15
LOI % (450°C):	0.6

Gravel %:	74.7
Pebble %:	70.2
Granule %:	4.6
Sand %:	24.0
Mud %:	1.3
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	2.24
Mode 3 (phi):	N/A
Mean size (phi):	-2.05
Mean size (mm):	4.14
Sorting (phi):	2.382
Skewness (phi):	0.631
Kurtosis (phi):	1.010
D ₁₀ (phi):	-4.33
D ₁₀ (mm):	20.11
D ₅₀ (phi):	-3.18
D ₅₀ (mm):	9.09
LOI % (450°C):	0.6

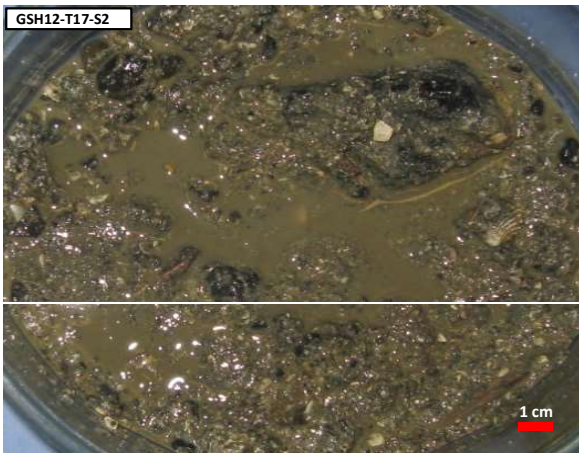
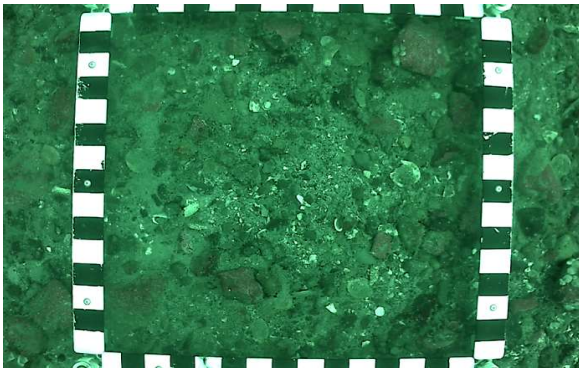
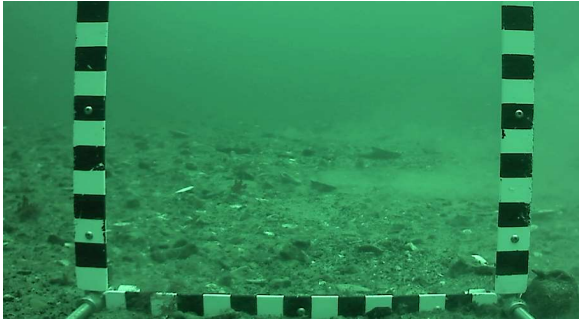
Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	13.41
-3	16.07
-2.5	7.05
-2	3.17
-1.5	3.09
-1	2.31
-0.5	2.94
0	3.29
0.5	4.16
1	5.85
1.5	6.90
2	9.50
2.5	8.90
3	7.97
3.5	1.75
4	0.49
>4	N/A
5	0.60
6	0.30
7	0.32
8	0.30
9	0.29
10	0.73
Smaller than 10	0.63

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	13.41
-3	16.07
-2.5	7.05
-2	3.17
-1.5	3.09
-1	2.31
-0.5	2.94
0	3.29
0.5	4.16
1	5.85
1.5	6.90
2	9.50
2.5	8.90
3	7.97
3.5	1.75
4	0.49
>4	N/A
5	0.60
6	0.30
7	0.32
8	0.30
9	0.29
10	0.73
Smaller than 10	0.63

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	6.08
-4	12.25
-3.5	20.17
-3	18.49
-2.5	9.11
-2	4.05
-1.5	2.36
-1	2.22
-0.5	2.26
0	1.67
0.5	1.74
1	2.76
1.5	3.31
2	4.16
2.5	3.92
3	3.31
3.5	0.66
4	0.21
>4	1.26
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH12-T17



Station Information

Latitude, Longitude:	43.062383	-70.631459
Water Depth (m):	26.5	
Sample Weight (g):	307.1	
Date Collected, Analyzed:	7/19/2017	2/8/2018

Sample 1

Latitude, Longitude:	43.062383	-70.631459
Water Depth (m):	26.5	
Sample Weight (g):	307.1	
Date Collected, Analyzed:	7/19/2017	2/8/2018

Sample 2

Latitude, Longitude:	43.062393	-70.631335
Water Depth (m):	26.8	
Sample Weight (g):	249.5	
Date Collected, Analyzed:	7/19/2017	2/5/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Fine Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Granule Gravel

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Granule Gravel

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Statistics

Gravel %:	60.6
Pebble %:	51.3
Granule %:	9.3
Sand %:	38.3
Mud %:	1.1
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	0.75
Mode 3 (phi):	N/A
Mean size (phi):	-1.67
Mean size (mm):	3.18
Sorting (phi):	2.190
Skewness (phi):	0.300
Kurtosis (phi):	0.664
D ₁₀ (phi):	-4.10
D ₁₀ (mm):	17.14
D ₅₀ (phi):	-2.13
D ₅₀ (mm):	4.36
LOI % (450°C):	0.5

Gravel %:	60.6
Pebble %:	51.3
Granule %:	9.3
Sand %:	38.3
Mud %:	1.1
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	0.75
Mode 3 (phi):	N/A
Mean size (phi):	-1.67
Mean size (mm):	3.18
Sorting (phi):	2.190
Skewness (phi):	0.300
Kurtosis (phi):	0.664
D ₁₀ (phi):	-4.10
D ₁₀ (mm):	17.14
D ₅₀ (phi):	-2.13
D ₅₀ (mm):	4.36
LOI % (450°C):	0.5

Gravel %:	34.5
Pebble %:	24.2
Granule %:	10.3
Sand %:	62.7
Mud %:	2.8
Silt %:	1.4
Clay %:	1.3
Modes:	Bimodal
Mode 1 (phi):	0.75
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	-0.37
Mean size (mm):	1.29
Sorting (phi):	2.141
Skewness (phi):	-0.222
Kurtosis (phi):	0.874
D ₁₀ (phi):	-3.27
D ₁₀ (mm):	9.67
D ₅₀ (phi):	-0.01
D ₅₀ (mm):	1.01
LOI % (450°C):	0.8

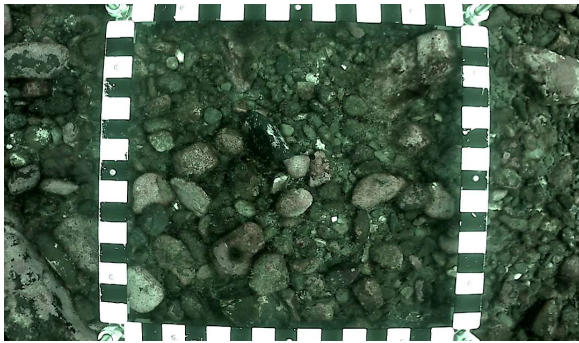
Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	12.56
-3.5	16.29
-3	12.71
-2.5	4.74
-2	5.00
-1.5	4.89
-1	4.44
-0.5	5.38
0	5.17
0.5	5.84
1	6.87
1.5	5.49
2	5.14
2.5	3.11
3	0.92
3.5	0.23
4	0.16
>4	1.07
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	12.56
-3.5	16.29
-3	12.71
-2.5	4.74
-2	5.00
-1.5	4.89
-1	4.44
-0.5	5.38
0	5.17
0.5	5.84
1	6.87
1.5	5.49
2	5.14
2.5	3.11
3	0.92
3.5	0.23
4	0.16
>4	1.07
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	5.47
-3.5	1.59
-3	6.73
-2.5	5.89
-2	4.50
-1.5	4.92
-1	5.41
-0.5	7.46
0	8.28
0.5	9.71
1	11.20
1.5	9.07
2	8.59
2.5	5.61
3	2.05
3.5	0.46
4	0.31
>4	N/A
5	0.43
6	0.35
7	0.34
8	0.31
9	0.32
10	0.36
Smaller than 10	0.64

GSH12-T18



Station Information

Latitude, Longitude:	43.078743	-70.645144
Water Depth (m):	15.2	
Sample Weight (g):	336.7	
Date Collected, Analyzed:	8/1/2017	2/5/2018

Sample 1

Sample 2

Latitude, Longitude:	43.078727	-70.645136
Water Depth (m):	15.2	
Sample Weight (g):	598.9	
Date Collected, Analyzed:	8/1/2017	2/5/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Coarse Gravel
Mean Size:	Medium Gravel
Sorting:	Moderately Sorted

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Coarse Gravel
Mean Size:	Medium Gravel
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

Statistics

Gravel %:	99.0
Pebble %:	98.5
Granule %:	0.6
Sand %:	0.6
Mud %:	0.4
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-4.73
Mode 2 (phi):	-2.74
Mode 3 (phi):	N/A
Mean size (phi):	-3.59
Mean size (mm):	12.06
Sorting (phi):	0.900
Skewness (phi):	-0.191
Kurtosis (phi):	0.642
D ₁₀ (phi):	-4.80
D ₁₀ (mm):	27.80
D ₅₀ (phi):	-3.42
D ₅₀ (mm):	10.70
LOI % (450°C):	N/A

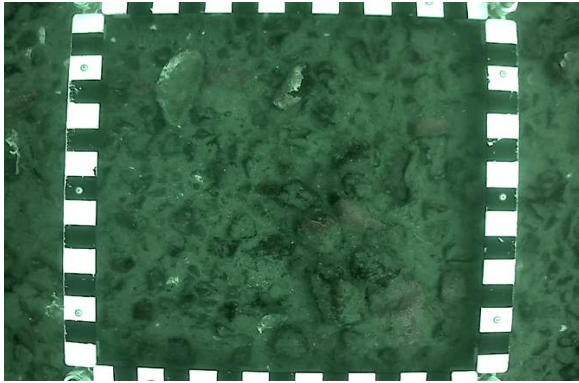
Gravel %:	98.0
Pebble %:	94.8
Granule %:	3.2
Sand %:	1.7
Mud %:	0.3
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	-4.73
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-3.87
Mean size (mm):	14.65
Sorting (phi):	0.858
Skewness (phi):	0.256
Kurtosis (phi):	1.034
D ₁₀ (phi):	-4.78
D ₁₀ (mm):	27.46
D ₅₀ (phi):	-3.95
D ₅₀ (mm):	15.48
LOI % (450°C):	N/A

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	27.35
-4	12.92
-3.5	6.82
-3	21.61
-2.5	23.76
-2	6.03
-1.5	0.49
-1	0.06
-0.5	0.01
0	0.02
0.5	0.02
1	0.02
1.5	0.02
2	0.03
2.5	0.03
3	0.07
3.5	0.14
4	0.22
>4	0.38
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	24.78
-4	23.14
-3.5	22.26
-3	14.02
-2.5	7.87
-2	2.76
-1.5	1.62
-1	1.54
-0.5	0.85
0	0.22
0.5	0.12
1	0.08
1.5	0.06
2	0.06
2.5	0.07
3	0.06
3.5	0.07
4	0.10
>4	0.32
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH12-T21



Station Information

Latitude, Longitude:	43.088377	-70.645729
Water Depth (m):	18.3	
Sample Weight (g):	458.9	
Date Collected, Analyzed:	8/1/2017	12/9/2017

Sample 1

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravel
Mean Size:	Medium Gravel
Sorting:	Very Poorly Sorted

Sample 2

Latitude, Longitude:	43.088509	-70.645753
Water Depth (m):	18.3	
Sample Weight (g):	1068.9	
Date Collected, Analyzed:	8/1/2017	12/9/2017

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravel
Mean Size:	Medium Gravel
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel	Pebble Gravel
Mean Size:	Pebble Gravel	Pebble Gravel

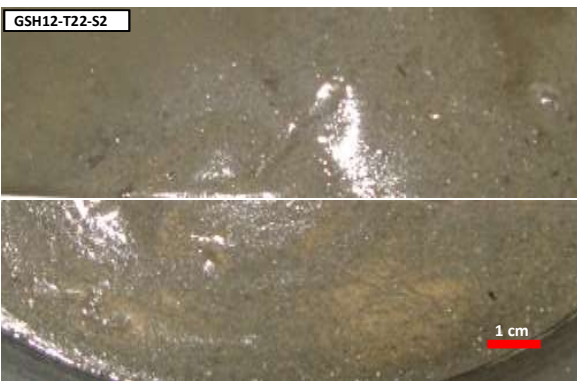
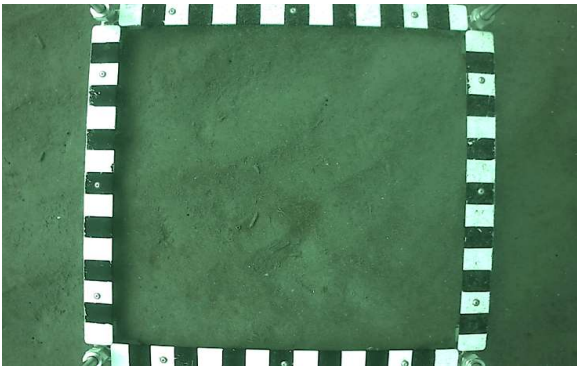
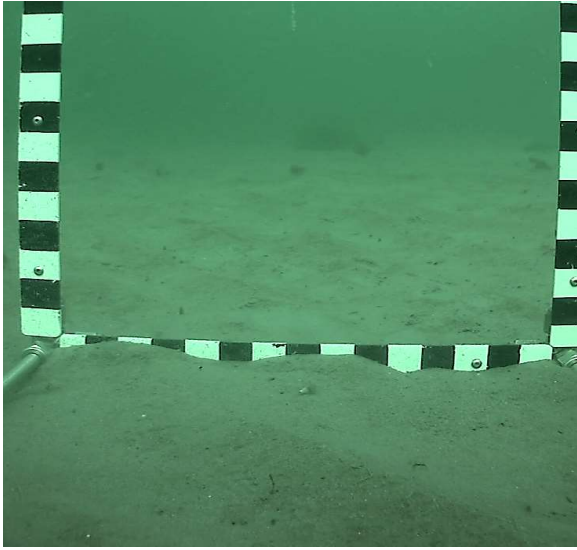
Statistics

Gravel %:	85.6	85.7
Pebble %:	82.2	83.8
Granule %:	3.3	1.9
Sand %:	13.0	13.0
Mud %:	1.5	1.3
Silt %:	N/A	1.0
Clay %:	N/A	0.3
Modes:	Bimodal	Bimodal
Mode 1 (phi):	-3.74	-3.74
Mode 2 (phi):	-5.24	-4.73
Mode 3 (phi):	N/A	N/A
Mean size (phi):	-3.38	-3.44
Mean size (mm):	10.44	10.82
Sorting (phi):	2.101	1.905
Skewness (phi):	0.383	0.449
Kurtosis (phi):	2.217	2.263
D ₁₀ (phi):	-5.17	-4.87
D ₁₀ (mm):	36.08	29.32
D ₅₀ (phi):	-3.60	-3.67
D ₅₀ (mm):	12.11	12.70
LOI % (450°C):	0.7	N/A

Size Distribution (phi)

(phi)	(%)	(%)
-5.5	0.00	0.00
-5	16.15	5.98
-4.5	7.66	19.09
-4	5.39	9.71
-3.5	26.61	23.52
-3	17.60	18.47
-2.5	5.64	4.72
-2	3.21	2.34
-1.5	2.12	1.13
-1	1.22	0.78
-0.5	0.78	0.63
0	0.38	0.39
0.5	0.37	0.35
1	0.55	0.64
1.5	0.98	1.11
2	2.17	2.18
2.5	2.47	2.40
3	2.06	1.96
3.5	2.07	2.17
4	1.11	1.12
>4	1.47	N/A
5	N/A	0.63
6	N/A	0.16
7	N/A	0.10
8	N/A	0.08
9	N/A	0.13
10	N/A	0.09
Smaller than 10	N/A	0.11

GSH12-T22



Sample 1

Sample 2

Station Information

Latitude, Longitude:	43.091586	-70.650512
Water Depth (m):	9.4	
Sample Weight (g):	95.7	
Date Collected, Analyzed:	7/19/2017	12/9/2017

Latitude, Longitude:	43.091839	-70.651043
Water Depth (m):	9.4	
Sample Weight (g):	89.3	
Date Collected, Analyzed:	7/19/2017	12/9/2017

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand

Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.4
Mud %:	1.6
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.08
Mean size (mm):	0.12
Sorting (phi):	0.398
Skewness (phi):	-0.025
Kurtosis (phi):	0.980
D ₁₀ (phi):	2.58
D ₁₀ (mm):	0.17
D ₅₀ (phi):	3.12
D ₅₀ (mm):	0.12
LOI % (450°C):	0.5

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	96.9
Mud %:	3.1
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.09
Mean size (mm):	0.12
Sorting (phi):	0.409
Skewness (phi):	-0.010
Kurtosis (phi):	1.016
D ₁₀ (phi):	2.58
D ₁₀ (mm):	0.17
D ₅₀ (phi):	3.12
D ₅₀ (mm):	0.11
LOI % (450°C):	0.8

Size Distribution (phi)

(phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.00	0.00
-2	0.00	0.00
-1.5	0.01	0.00
-1	0.00	0.01
-0.5	0.01	0.01
0	0.02	0.00
0.5	0.02	0.01
1	0.03	0.03
1.5	0.08	0.09
2	0.29	0.30
2.5	2.32	2.28
3	35.50	34.94
3.5	47.95	47.48
4	12.20	11.77
>4	1.59	3.08
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

GSH12-T23



Station Information

Latitude, Longitude:	43.095915	-70.645111
Water Depth (m):	12.2	
Sample Weight (g):	105.9	
Date Collected, Analyzed:	7/19/2017	12/9/2017

Sample 1

Sample 2

Latitude, Longitude:	43.095915	-70.645111
Water Depth (m):	12.2	
Sample Weight (g):	105.9	
Date Collected, Analyzed:	7/19/2017	12/9/2017

Latitude, Longitude:	43.096115	-70.645381
Water Depth (m):	12.2	
Sample Weight (g):	89.4	
Date Collected, Analyzed:	7/19/2017	12/9/2017

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Textural Group (GSM):	Sand
Textural Group (SZC):	Sand
Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand

Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand

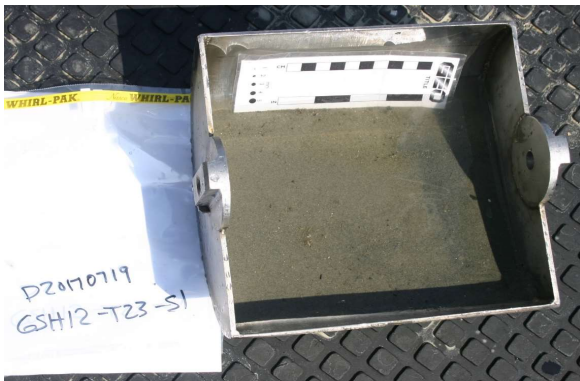
Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	97.2
Mud %:	2.9
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.16
Mean size (mm):	0.11
Sorting (phi):	0.430
Skewness (phi):	-0.006
Kurtosis (phi):	1.077
D ₁₀ (phi):	2.64
D ₁₀ (mm):	0.16
D ₅₀ (phi):	3.18
D ₅₀ (mm):	0.11
LOI % (450°C):	0.6

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	94.2
Mud %:	5.8
Silt %:	4.7
Clay %:	1.2
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.25
Mean size (mm):	0.11
Sorting (phi):	0.488
Skewness (phi):	0.087
Kurtosis (phi):	1.338
D ₁₀ (phi):	2.48
D ₁₀ (mm):	0.18
D ₅₀ (phi):	3.24
D ₅₀ (mm):	0.11
LOI % (450°C):	0.7

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	94.2
Mud %:	5.8
Silt %:	4.7
Clay %:	1.2
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.25
Mean size (mm):	0.11
Sorting (phi):	0.488
Skewness (phi):	0.087
Kurtosis (phi):	1.338
D ₁₀ (phi):	2.48
D ₁₀ (mm):	0.18
D ₅₀ (phi):	3.24
D ₅₀ (mm):	0.11
LOI % (450°C):	0.7



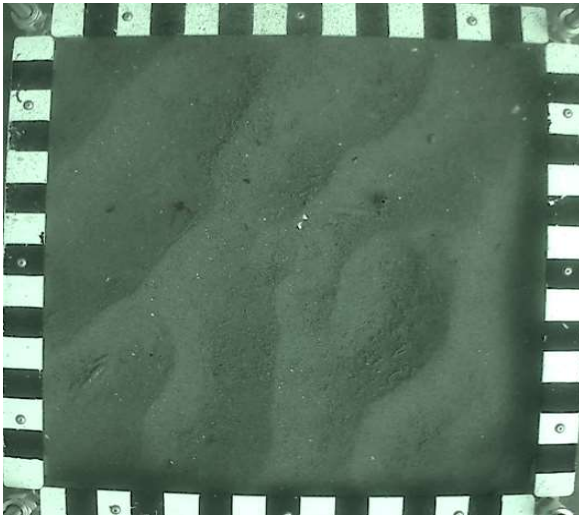
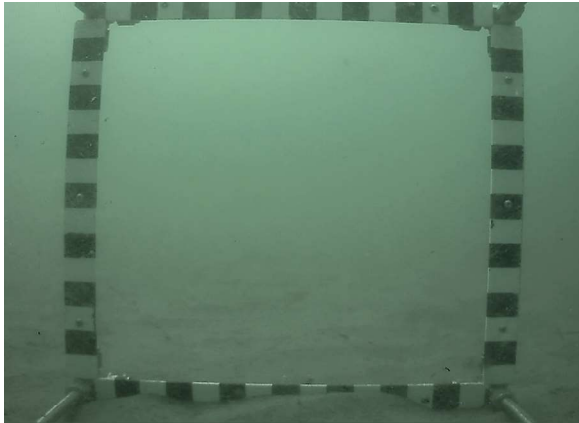
Size Distribution (phi)

-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.02
0	0.05
0.5	0.05
1	0.06
1.5	0.09
2	0.40
2.5	2.02
3	28.30
3.5	49.21
4	16.94
>4	2.85
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.02	
0.05	
0.05	
0.06	
0.09	
0.40	
2.02	
28.30	
49.21	
16.94	
2.85	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	

(%)	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.06	
0.04	
0.07	
0.12	
0.19	
0.42	
1.79	
22.99	
48.63	
19.86	
N/A	
4.30	
0.18	
0.08	
0.10	
0.13	
0.21	
0.82	

GSH12-T24



Sample 1

Sample 2

Station Information

Latitude, Longitude:	43.089942	-70.655696	43.089975	-70.655647
Water Depth (m):	7.3		7.3	
Sample Weight (g):	87.0		111.2	
Date Collected, Analyzed:	8/1/2017	12/9/2017	8/1/2017	12/9/2017

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Granuley	Sand
Subgroup:	Slightly Granuley Fine Sand	Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand	Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand	Fine Sand
Mean Size:	Fine Sand	Fine Sand
Sorting:	Well Sorted	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand	Fine Sand
Mean Size:	Fine Sand	Fine Sand

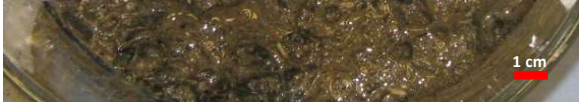
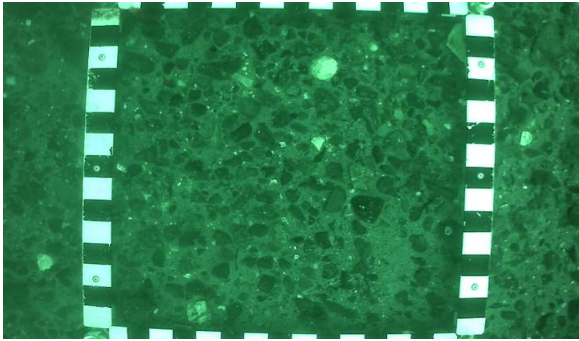
Statistics

Gravel %:	0.1	0.0
Pebble %:	0.0	0.0
Granule %:	0.1	0.0
Sand %:	99.1	99.1
Mud %:	0.8	0.9
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	2.74	2.74
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	2.86	2.90
Mean size (mm):	0.14	0.13
Sorting (phi):	0.371	0.350
Skewness (phi):	0.083	0.129
Kurtosis (phi):	1.108	0.908
D ₁₀ (phi):	2.48	2.5
D ₁₀ (mm):	0.18	0.18
D ₅₀ (phi):	2.82	2.86
D ₅₀ (mm):	0.14	0.14
LOI % (450°C):	0.4	0.4

Size Distribution (phi)

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.00	0.00
-2	0.00	0.00
-1.5	0.11	0.00
-1	0.04	0.04
-0.5	0.03	0.00
0	0.02	0.02
0.5	0.04	0.03
1	0.12	0.09
1.5	0.25	0.19
2	1.73	0.44
2.5	7.17	5.76
3	61.30	59.76
3.5	25.63	29.56
4	2.80	3.23
>4	0.75	0.88
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

GSH12-T51



Station Information

Latitude, Longitude:	43.055253	-70.623333
Water Depth (m):	33.2	
Sample Weight (g):	549.6	
Date Collected, Analyzed:	7/19/2017	12/9/2017

Sample 1

Latitude, Longitude:	43.055253	-70.623333
Water Depth (m):	33.2	
Sample Weight (g):	549.6	
Date Collected, Analyzed:	7/19/2017	12/9/2017

Sample 2

Latitude, Longitude:	43.055192	-70.623168
Water Depth (m):	33.5	
Sample Weight (g):	411.4	
Date Collected, Analyzed:	7/19/2017	12/9/2017

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Muddy Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Muddy Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Muddy Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Muddy Sandy Fine Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Muddy Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Muddy Sandy Fine Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Muddy Sandy Pebble Gravel
Mean Size:	Granule Gravel

Sediment Name:	Muddy Sandy Pebble Gravel
Mean Size:	Granule Gravel

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Granule Gravel

Statistics

Gravel %:	69.5
Pebble %:	52.4
Granule %:	17.1
Sand %:	27.2
Mud %:	3.3
Silt %:	1.9
Clay %:	1.4
Modes:	Unimodal
Mode 1 (phi):	-3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-1.51
Mean size (mm):	2.86
Sorting (phi):	2.053
Skewness (phi):	0.450
Kurtosis (phi):	1.052
D ₁₀ (phi):	-3.49
D ₁₀ (mm):	11.27
D ₅₀ (phi):	-2.11
D ₅₀ (mm):	4.32
LOI % (450°C):	0.7

Gravel %:	69.5
Pebble %:	52.4
Granule %:	17.1
Sand %:	27.2
Mud %:	3.3
Silt %:	1.9
Clay %:	1.4
Modes:	Unimodal
Mode 1 (phi):	-3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-1.51
Mean size (mm):	2.86
Sorting (phi):	2.053
Skewness (phi):	0.450
Kurtosis (phi):	1.052
D ₁₀ (phi):	-3.49
D ₁₀ (mm):	11.27
D ₅₀ (phi):	-2.11
D ₅₀ (mm):	4.32
LOI % (450°C):	0.7

Gravel %:	57.9
Pebble %:	43.1
Granule %:	14.8
Sand %:	38.6
Mud %:	3.5
Silt %:	2.0
Clay %:	1.5
Modes:	Unimodal
Mode 1 (phi):	-2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-1.10
Mean size (mm):	2.15
Sorting (phi):	2.324
Skewness (phi):	0.276
Kurtosis (phi):	0.790
D ₁₀ (phi):	-3.75
D ₁₀ (mm):	13.42
D ₅₀ (phi):	-1.57
D ₅₀ (mm):	2.97
LOI % (450°C):	0.4

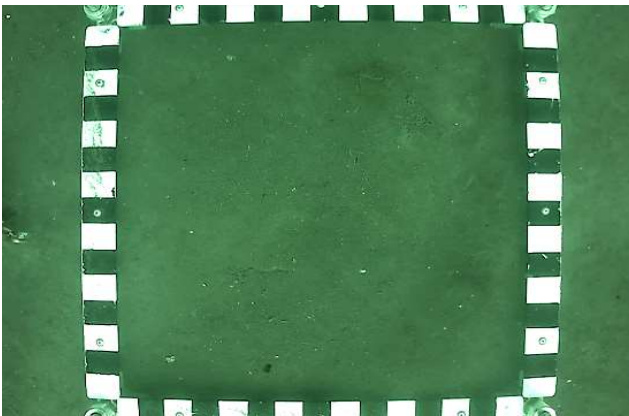
Size Distribution (phi)

-5.5	0.00
-5	0.00
-4.5	0.00
-4	2.80
-3.5	7.33
-3	17.43
-2.5	14.29
-2	10.59
-1.5	9.97
-1	7.14
-0.5	5.62
0	3.43
0.5	2.98
1	3.09
1.5	2.25
2	2.91
2.5	4.13
3	1.98
3.5	0.47
4	0.32
>4	N/A
5	0.75
6	0.49
7	0.32
8	0.28
9	0.28
10	0.70
Smaller than 10	0.45

(%)	0.00
(%)	0.00
(%)	0.00
(%)	6.63
(%)	6.83
(%)	13.24
(%)	8.31
(%)	8.07
(%)	8.33
(%)	6.47
(%)	6.53
(%)	5.06
(%)	4.81
(%)	4.86
(%)	3.50
(%)	4.20
(%)	6.13
(%)	2.64
(%)	0.53
(%)	0.34
(%)	N/A
(%)	0.80
(%)	0.63
(%)	0.33
(%)	0.27
(%)	0.28
(%)	0.61
(%)	0.61

(%)	0.00
(%)	0.00
(%)	0.00
(%)	6.63
(%)	6.83
(%)	13.24
(%)	8.31
(%)	8.07
(%)	8.33
(%)	6.47
(%)	6.53
(%)	5.06
(%)	4.81
(%)	4.86
(%)	3.50
(%)	4.20
(%)	6.13
(%)	2.64
(%)	0.53
(%)	0.34
(%)	N/A
(%)	0.80
(%)	0.63
(%)	0.33
(%)	0.27
(%)	0.28
(%)	0.61
(%)	0.61

GSH13-T11



Sample 1

Station Information

Latitude, Longitude:	43.024318	-70.713641
Water Depth (m):	13.4	
Sample Weight (g):	123.7	
Date Collected, Analyzed:	7/17/2017	5/2/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Very Fine Sand

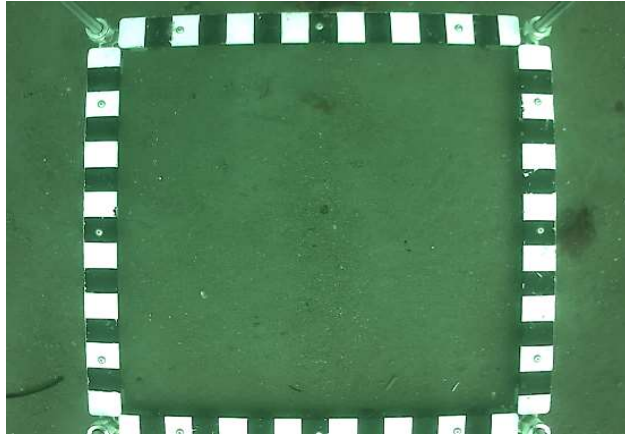
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	97.6
Mud %:	2.4
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.03
Mean size (mm):	0.12
Sorting (phi):	0.408
Skewness (phi):	-0.065
Kurtosis (phi):	1.003
D ₁₀ (phi):	2.53
D ₁₀ (mm):	0.17
D ₅₀ (phi):	3.06
D ₅₀ (mm):	0.12
LOI % (450°C):	0.7

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.01
-0.5	0.08
0	0.14
0.5	0.16
1	0.24
1.5	0.42
2	0.90
2.5	3.88
3	37.82
3.5	47.81
4	6.19
>4	2.35
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH13-T13



Sample 1

Station Information

Latitude, Longitude:	43.022075	-70.719898
Water Depth (m):	11.0	
Sample Weight (g):	144.4	
Date Collected, Analyzed:	7/17/2017	5/2/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	97.2
Mud %:	2.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.99
Mean size (mm):	0.13
Sorting (phi):	0.500
Skewness (phi):	-0.094
Kurtosis (phi):	1.114
D ₁₀ (phi):	2.32
D ₁₀ (mm):	0.20
D ₅₀ (phi):	3.03
D ₅₀ (mm):	0.12
LOI % (450°C):	0.6

GSH13-T13-S1



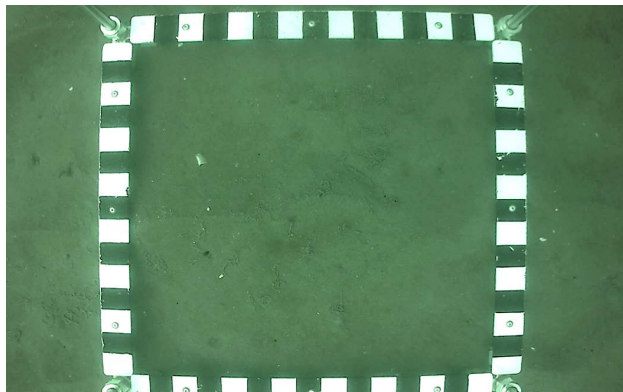
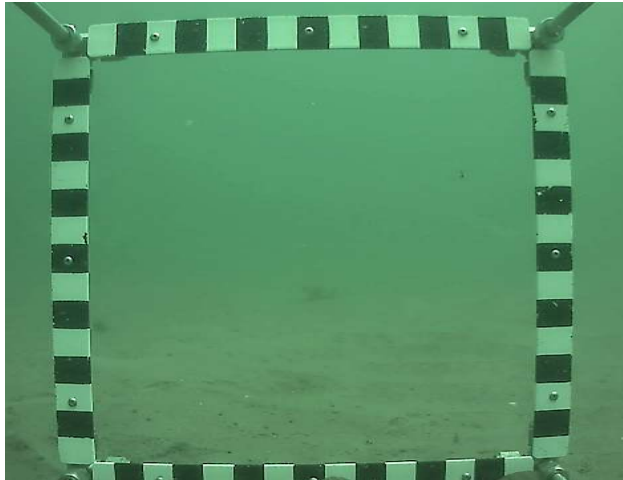
GSH13-T13-S1



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.03
-0.5	0.01
0	0.04
0.5	0.07
1	0.23
1.5	0.69
2	2.85
2.5	9.05
3	34.92
3.5	40.26
4	9.09
>4	2.76
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH13-T14



Sample 1

Station Information

Latitude, Longitude:	43.020354	-70.722841
Water Depth (m):	9.4	
Sample Weight (g):	123.9	
Date Collected, Analyzed:	7/17/2017	5/2/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Fine Sand

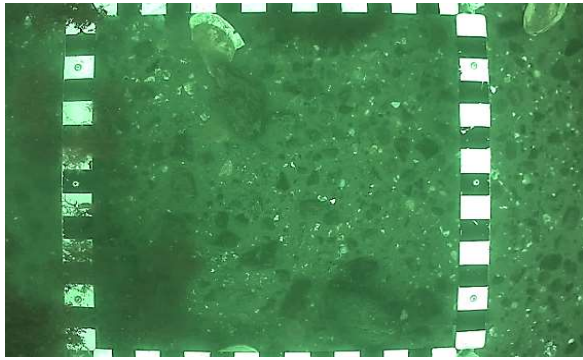
Statistics

Gravel %:	0.1
Pebble %:	0.0
Granule %:	0.1
Sand %:	98.0
Mud %:	1.9
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.99
Mean size (mm):	0.13
Sorting (phi):	0.490
Skewness (phi):	-0.138
Kurtosis (phi):	1.104
D ₁₀ (phi):	2.32
D ₁₀ (mm):	0.20
D ₅₀ (phi):	3.04
D ₅₀ (mm):	0.12
LOI % (450°C):	0.6

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.06
-1	0.01
-0.5	0.03
0	0.08
0.5	0.13
1	0.42
1.5	0.72
2	2.67
2.5	8.86
3	33.80
3.5	42.50
4	8.82
>4	1.90
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH13-T15



Station Information

Latitude, Longitude:	43.017187	-70.719325
Water Depth (m):	15.5	
Sample Weight (g):	281.5	
Date Collected, Analyzed:	7/17/2017	5/2/2018

Sample 1

Latitude, Longitude:	43.017187	-70.719325
Water Depth (m):	15.5	
Sample Weight (g):	281.5	
Date Collected, Analyzed:	7/17/2017	5/2/2018

Sample 2

Latitude, Longitude:	43.017226	-70.719428
Water Depth (m):	15.5	
Sample Weight (g):	421.3	
Date Collected, Analyzed:	7/17/2017	5/2/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Coarse Gravel
Mean Size:	Medium Gravel
Sorting:	Poorly Sorted

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Coarse Gravel
Mean Size:	Medium Gravel
Sorting:	Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Pebble Gravel

Statistics

Gravel %:	92.0
Pebble %:	90.1
Granule %:	1.9
Sand %:	7.4
Mud %:	0.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	-4.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-3.78
Mean size (mm):	13.75
Sorting (phi):	1.349
Skewness (phi):	0.537
Kurtosis (phi):	2.070
D ₁₀ (phi):	-4.72
D ₁₀ (mm):	26.32
D ₅₀ (phi):	-3.99
D ₅₀ (mm):	15.93
LOI % (450°C):	N/A

Gravel %:	92.0
Pebble %:	90.1
Granule %:	1.9
Sand %:	7.4
Mud %:	0.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	-4.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-3.78
Mean size (mm):	13.75
Sorting (phi):	1.349
Skewness (phi):	0.537
Kurtosis (phi):	2.070
D ₁₀ (phi):	-4.72
D ₁₀ (mm):	26.32
D ₅₀ (phi):	-3.99
D ₅₀ (mm):	15.93
LOI % (450°C):	N/A

Gravel %:	65.5
Pebble %:	57.71
Granule %:	7.74
Sand %:	33.1
Mud %:	1.4
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-4.73
Mode 2 (phi):	2.74
Mode 3 (phi):	N/A
Mean size (phi):	-1.54
Mean size (mm):	2.91
Sorting (phi):	2.952
Skewness (phi):	0.498
Kurtosis (phi):	0.664
D ₁₀ (phi):	-4.64
D ₁₀ (mm):	24.93
D ₅₀ (phi):	-2.72
D ₅₀ (mm):	6.58
LOI % (450°C):	0.4

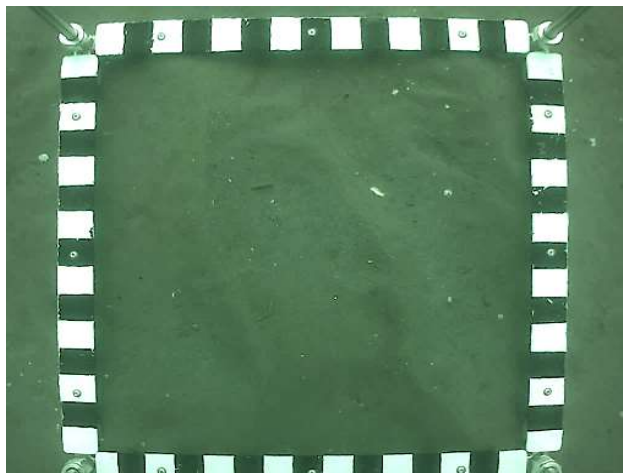
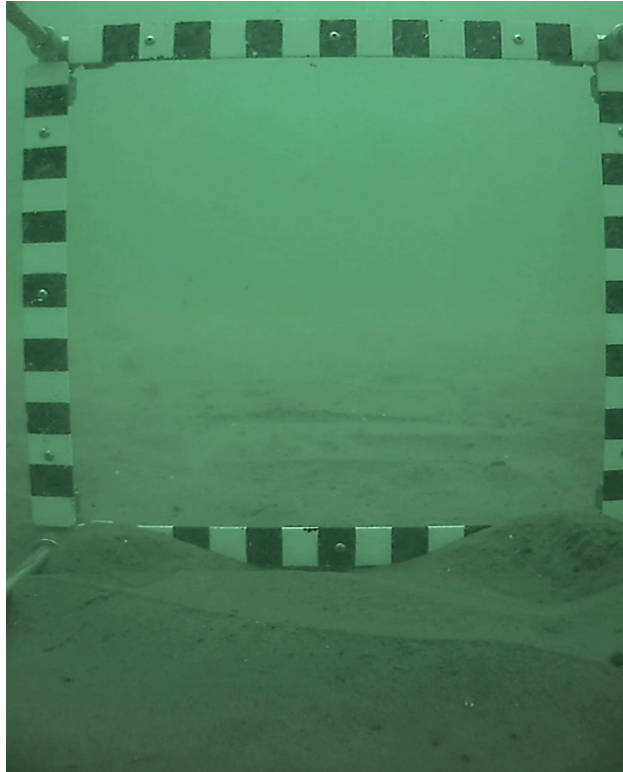
Size Distribution (phi)

-5.5	0.00
-5	0.00
-4.5	18.96
-4	30.84
-3.5	16.69
-3	14.88
-2.5	6.33
-2	2.35
-1.5	0.96
-1	0.93
-0.5	0.73
0	0.70
0.5	0.68
1	0.76
1.5	0.69
2	0.82
2.5	0.63
3	1.02
3.5	0.97
4	0.36
>4	0.67
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

-5.5	0.00
-5	0.00
-4.5	18.96
-4	30.84
-3.5	16.69
-3	14.88
-2.5	6.33
-2	2.35
-1.5	0.96
-1	0.93
-0.5	0.73
0	0.70
0.5	0.68
1	0.76
1.5	0.69
2	0.82
2.5	0.63
3	1.02
3.5	0.97
4	0.36
>4	0.67
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

-5.5	0.00
-5	0.00
-4.5	14.59
-4	7.81
-3.5	13.53
-3	10.86
-2.5	5.83
-2	5.09
-1.5	4.06
-1	3.69
-0.5	3.16
0	1.99
0.5	1.88
1	2.05
1.5	2.08
2	3.58
2.5	3.58
3	7.32
3.5	5.95
4	1.52
>4	1.44
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH13-T17



Sample 1

Station Information

Latitude, Longitude:	43.014386	-70.726680
Water Depth (m):	8.5	
Sample Weight (g):	89.5	
Date Analyzed:	7/17/2017	5/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

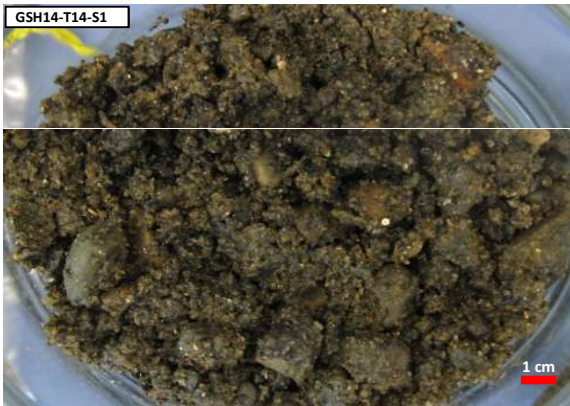
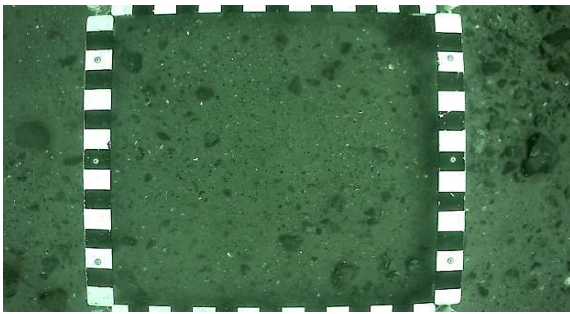
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.6
Mud %:	1.3
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.95
Mean size (mm):	0.13
Sorting (phi):	0.434
Skewness (phi):	0.011
Kurtosis (phi):	1.034
D ₁₀ (phi):	2.48
D ₁₀ (mm):	0.18
D ₅₀ (phi):	2.94
D ₅₀ (mm):	0.13
LOI % (450°C):	0.4

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.04
-0.5	0.04
0	0.09
0.5	0.20
1	0.46
1.5	0.44
2	1.25
2.5	7.26
3	45.84
3.5	37.04
4	6.00
>4	1.34
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH14-T14



Sample 1

Sample 2

Station Information

Latitude, Longitude:	42.983649	-70.738158
Water Depth (m):	15.8	
Sample Weight (g):	581.6	
Date Collected, Analyzed:	7/18/2017	5/16/2018

Latitude, Longitude:	42.983600	-70.738090
Water Depth (m):	15.8	
Sample Weight (g):	357.8	
Date Collected, Analyzed:	7/18/2017	5/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Fine Gravel
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Pebble Gravel

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Pebble Gravel

Statistics

Gravel %:	60.1
Pebble %:	53.6
Granule %:	6.5
Sand %:	38.5
Mud %:	1.4
Silt %:	N/A
Clay %:	N/A
Modes:	Trimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	-0.24
Mode 3 (phi):	3.24
Mean size (phi):	-1.83
Mean size (mm):	3.57
Sorting (phi):	2.364
Skewness (phi):	0.412
Kurtosis (phi):	0.823
D ₁₀ (phi):	-4.20
D ₁₀ (mm):	18.39
D ₅₀ (phi):	-2.40
D ₅₀ (mm):	5.26
LOI % (450°C):	0.6

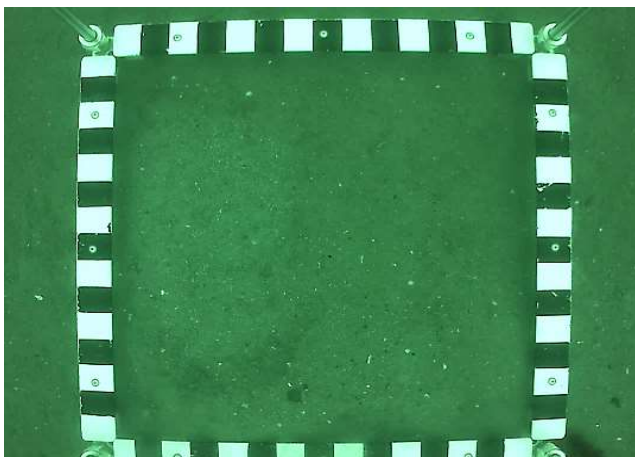
Gravel %:	68.2
Pebble %:	58.0
Granule %:	10.2
Sand %:	31.2
Mud %:	0.6
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	-0.24
Mode 3 (phi):	N/A
Mean size (phi):	-2.54
Mean size (mm):	5.80
Sorting (phi):	1.878
Skewness (phi):	0.257
Kurtosis (phi):	0.676
D ₁₀ (phi):	-4.69
D ₁₀ (mm):	25.78
D ₅₀ (phi):	-2.90
D ₅₀ (mm):	7.44
LOI % (450°C):	0.3

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	2.84
-4	12.24
-3.5	15.61
-3	13.36
-2.5	5.12
-2	4.44
-1.5	3.43
-1	3.07
-0.5	4.73
0	8.10
0.5	7.95
1	4.24
1.5	2.24
2	1.34
2.5	1.06
3	2.90
3.5	4.78
4	1.16
>4	1.38
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	17.02
-4	0.00
-3.5	22.02
-3	10.08
-2.5	4.26
-2	4.60
-1.5	4.43
-1	5.79
-0.5	9.06
0	11.44
0.5	6.98
1	1.47
1.5	0.32
2	0.17
2.5	0.13
3	0.38
3.5	0.85
4	0.38
>4	0.61
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH14-T15



Sample 1

Station Information

Latitude, Longitude:	42.982267	-70.736127
Water Depth (m):	18.9	
Sample Weight (g):	157.9	
Date Analyzed:	7/18/2017	5/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebbly Very Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	6.8
Pebble %:	5.2
Granule %:	1.6
Sand %:	88.4
Mud %:	4.8
Silt %:	3.6
Clay %:	1.2
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.59
Mean size (mm):	0.17
Sorting (phi):	1.373
Skewness (phi):	-0.467
Kurtosis (phi):	2.042
D ₁₀ (phi):	0.61
D ₁₀ (mm):	0.66
D ₅₀ (phi):	2.79
D ₅₀ (mm):	0.14
LOI % (450°C):	0.7

GSH14-T15-S1



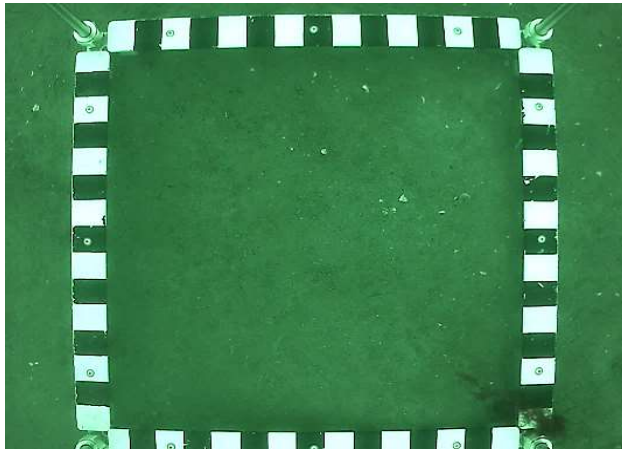
GSH14-T15-S1



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.04
-2.5	2.85
-2	1.32
-1.5	0.84
-1	0.78
-0.5	1.01
0	0.88
0.5	0.97
1	1.35
1.5	3.30
2	9.64
2.5	11.67
3	23.93
3.5	28.60
4	7.04
>4	N/A
5	2.85
6	0.39
7	0.18
8	0.14
9	0.14
10	0.18
Smaller than 10	0.87

GSH14-T16



Sample 1

Station Information

Latitude, Longitude:	42.978441	-70.736979
Water Depth (m):	19.8	
Sample Weight (g):	166.0	
Date Collected, Analyzed:	7/18/2017	5/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

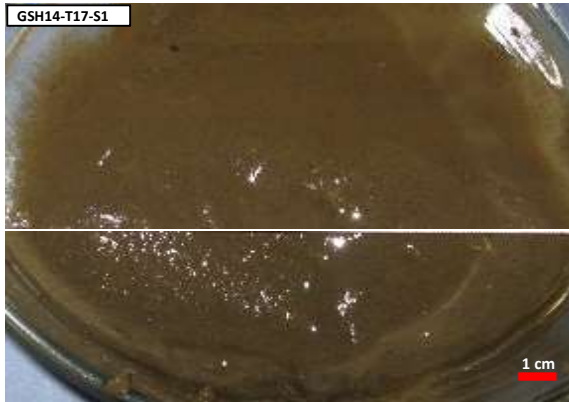
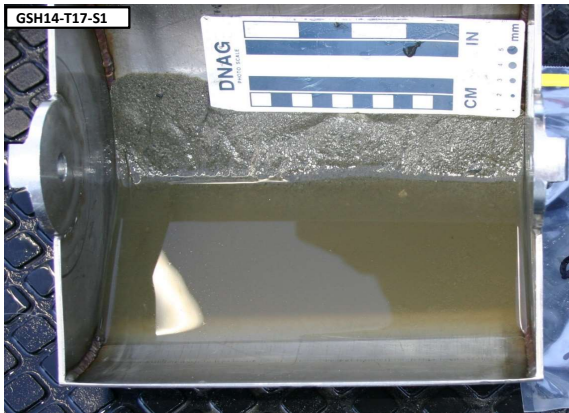
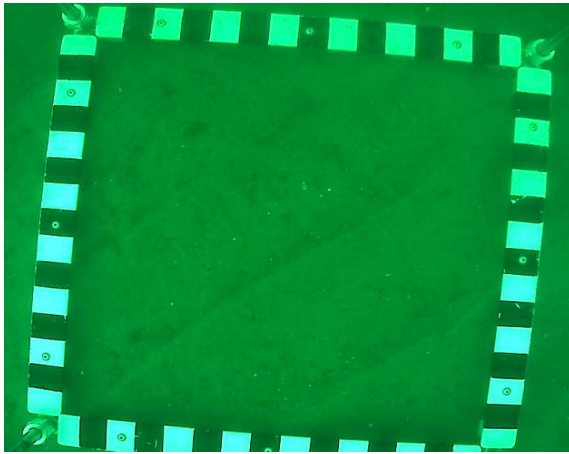
Statistics

Gravel %:	2.6
Pebble %:	2.5
Granule %:	0.1
Sand %:	95.9
Mud %:	1.5
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.46
Mean size (mm):	0.18
Sorting (phi):	0.798
Skewness (phi):	-0.200
Kurtosis (phi):	1.014
D ₁₀ (phi):	1.35
D ₁₀ (mm):	0.39
D ₅₀ (phi):	2.52
D ₅₀ (mm):	0.17
LOI % (450°C):	0.4

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	1.34
-3	0.92
-2.5	0.23
-2	0.00
-1.5	0.09
-1	0.01
-0.5	0.08
0	0.24
0.5	0.71
1	2.24
1.5	5.84
2	14.85
2.5	21.24
3	26.20
3.5	21.51
4	3.00
>4	1.49
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH14-T17



Sample 1

Sample 2

Station Information

Latitude, Longitude:	42.977165	-70.740457	42.977288	-70.740452
Water Depth (m):	19.2		19.2	
Sample Weight (g):	45.5		255.1	
Date Collected, Analyzed:	11/1/2016	5/30/2017	11/1/2016	6/5/17, 5/16/18

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Coarse Unconsol. Substrate
Group:	Slightly Pebbly	Pebbly
Subgroup:	Slightly Pebbly Muddy Fine Sand	Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Muddy Sand	Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Fine Gravelly Muddy Fine Sand	Medium Gravelly Fine Sand
Mean Size:	Fine Sand	Fine Sand
Sorting:	Poorly Sorted	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Muddy Fine Sand	Pebbly Fine Sand
Mean Size:	Fine Sand	Fine Sand

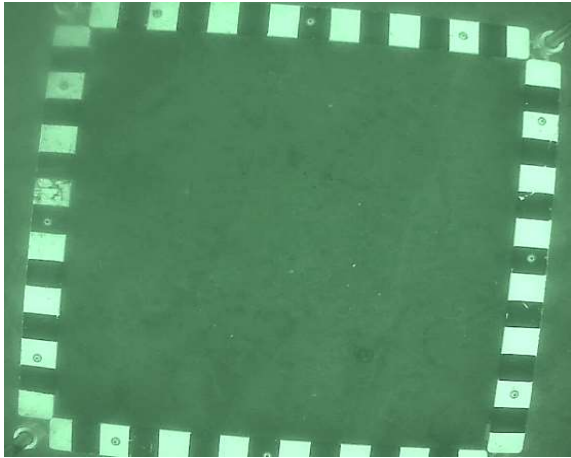
Statistics

Gravel %:	1.9	6.8
Pebble %:	1.7	6.2
Granule %:	0.1	0.6
Sand %:	84.9	88.6
Mud %:	13.2	4.6
Silt %:	N/A	3.4
Clay %:	N/A	1.2
Modes:	Unimodal	Unimodal
Mode 1 (phi):	2.24	3.24
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	2.63	2.54
Mean size (mm):	0.16	0.17
Sorting (phi):	1.905	1.434
Skewness (phi):	0.369	-0.355
Kurtosis (phi):	2.697	2.165
D ₁₀ (phi):	1.36	1.11
D ₁₀ (mm):	0.39	0.46
D ₅₀ (phi):	2.55	2.61
D ₅₀ (mm):	0.17	0.16
LOI % (450°C):	1.8	0.5

Size Distribution (phi)

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	3.46
-3	0.00	0.96
-2.5	1.67	0.75
-2	0.05	1.06
-1.5	0.00	0.23
-1	0.14	0.38
-0.5	0.21	0.30
0	0.45	0.34
0.5	0.83	0.51
1	2.44	1.21
1.5	5.82	3.59
2	15.61	13.01
2.5	20.85	19.39
3	12.60	18.89
3.5	20.91	24.66
4	5.18	6.69
>4	N/A	N/A
5	2.20	2.70
6	1.78	0.41
7	1.30	0.12
8	1.09	0.13
9	0.77	0.11
10	0.83	0.21
Smaller than 10	5.08	0.89

GSH14-T20



Sample 1

Sample 2

Station Information

Latitude, Longitude:	42.974777	-70.749365	42.974750	-70.748936
Water Depth (m):	17.4		18.0	
Sample Weight (g):	35.9		176.0	
Date Collected, Analyzed:	11/1/2016	6/5/2017	11/1/2016	5/25/17, 6/5/18

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Granuley	Slightly Granuley
Subgroup:	Slightly Granuley Muddy Sand	Slightly Granuley Muddy Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Muddy Sand	Slightly Gravelly Muddy Sand
Textural Group (SZC):	Silty Sand	Silty Sand
Sediment Name:	Slightly Very Fine Gravelly Very Coarse Silty Very Fine Sand	Slightly Very Fine Gravelly Very Coarse Silty Very Fine Sand
Mean Size:	Very Fine Sand	Very Fine Sand
Sorting:	Moderately Sorted	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Coarse Silty Fine Sand	Slightly Granular Very Coarse Silty Fine Sand
Mean Size:	Very Fine Sand	Fine Sand

Statistics

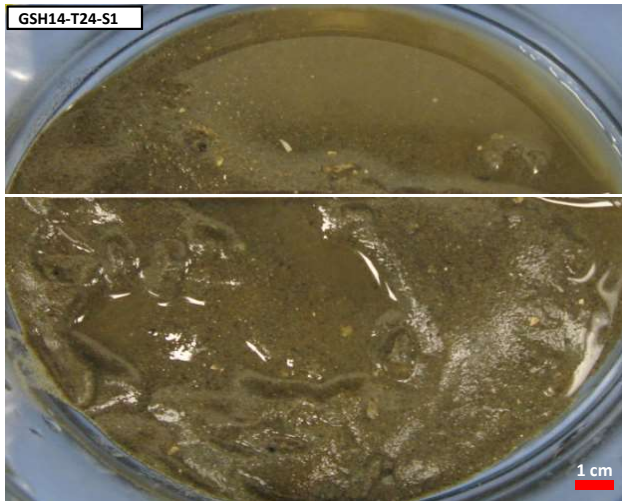
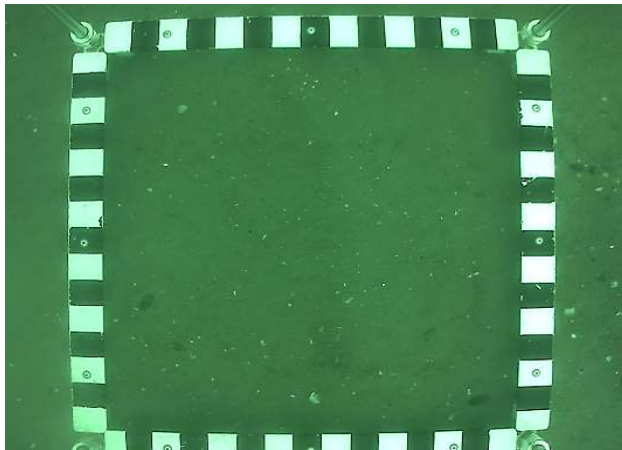
Gravel %:	0.9	0.0
Pebble %:	0.0	0.0
Granule %:	0.9	0.0
Sand %:	88.4	58.1
Mud %:	10.7	41.9
Silt %:	7.9	37.6
Clay %:	2.9	4.3
Modes:	Unimodal	Unimodal
Mode 1 (phi):	3.24	3.24
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	3.22	3.94
Mean size (mm):	0.11	0.07
Sorting (phi):	0.798	1.136
Skewness (phi):	-0.060	0.326
Kurtosis (phi):	1.886	1.409
D ₁₀ (phi):	2.20	2.91
D ₁₀ (mm):	0.22	0.13
D ₅₀ (phi):	3.27	3.81
D ₅₀ (mm):	0.10	0.07
LOI % (450°C):	1.49	1.44



Size Distribution (phi)

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.00	0.00
-2	0.00	0.00
-1.5	0.59	0.02
-1	0.29	0.01
-0.5	0.32	0.09
0	0.34	0.07
0.5	0.35	0.05
1	0.66	0.11
1.5	1.35	0.25
2	3.08	0.97
2.5	7.35	2.44
3	11.73	7.24
3.5	42.84	23.67
4	20.38	23.17
>4	N/A	N/A
5	7.35	28.87
6	0.38	6.86
7	0.08	1.11
8	0.04	0.77
9	0.19	0.73
10	0.53	1.02
Smaller than 10	2.14	2.52

GSH14-T24



Sample 1

Station Information

Latitude, Longitude:	42.979850	-70.745290
Water Depth (m):	14.9	
Sample Weight (g):	93.9	
Date Collected, Analyzed:	7/18/2017	6/5/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granulely
Subgroup:	Slightly Granulely Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Fine Sand

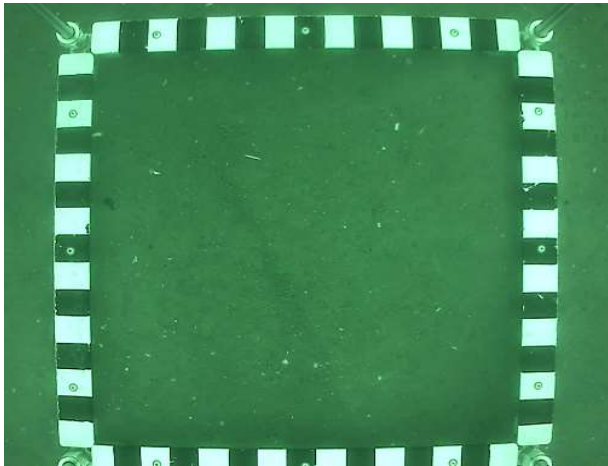
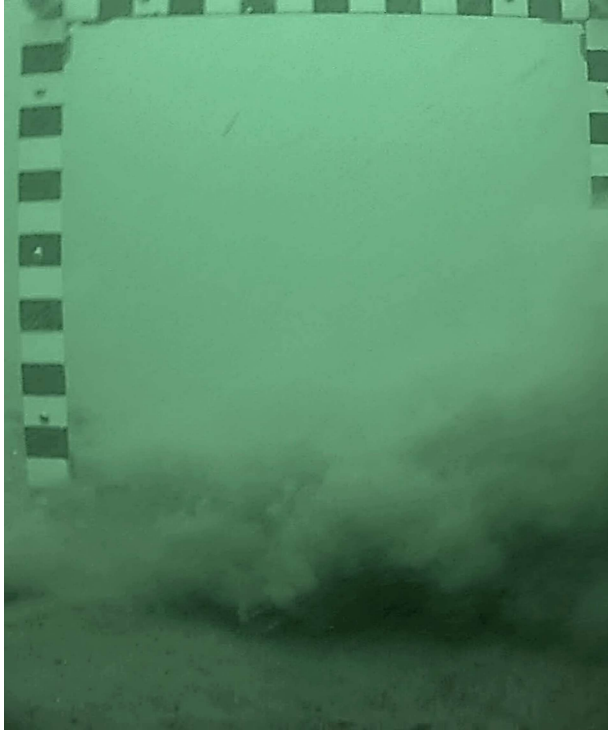
Statistics

Gravel %:	1.8
Pebble %:	0.9
Granule %:	0.9
Sand %:	93.0
Mud %:	5.2
Silt %:	4.2
Clay %:	1.0
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.69
Mean size (mm):	0.15
Sorting (phi):	0.885
Skewness (phi):	-0.237
Kurtosis (phi):	1.075
D ₁₀ (phi):	1.52
D ₁₀ (mm):	0.35
D ₅₀ (phi):	2.84
D ₅₀ (mm):	0.14
LOI % (450°C):	0.6

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.88
-1.5	0.75
-1	0.20
-0.5	0.41
0	0.56
0.5	0.77
1	1.54
1.5	4.21
2	11.65
2.5	14.81
3	20.60
3.5	28.86
4	9.53
>4	N/A
5	3.69
6	0.30
7	0.14
8	0.11
9	0.15
10	0.24
Smaller than 10	0.59

GSH14-T35



Sample 1

Station Information

Latitude, Longitude:	42.979467	-70.742292
Water Depth (m):	16.5	
Sample Weight (g):	114.7	
Date Collected, Analyzed:	7/18/2017	6/5/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Muddy Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Muddy Sand
Textural Group (SZC):	Silty Sand
Sediment Name:	Slightly Very Fine Gravelly Very Coarse Silty Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Coarse Silty Fine Sand
Mean Size:	Very Fine Sand

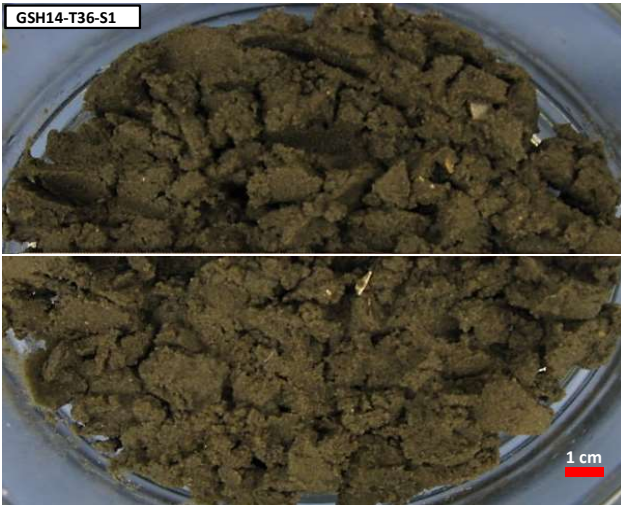
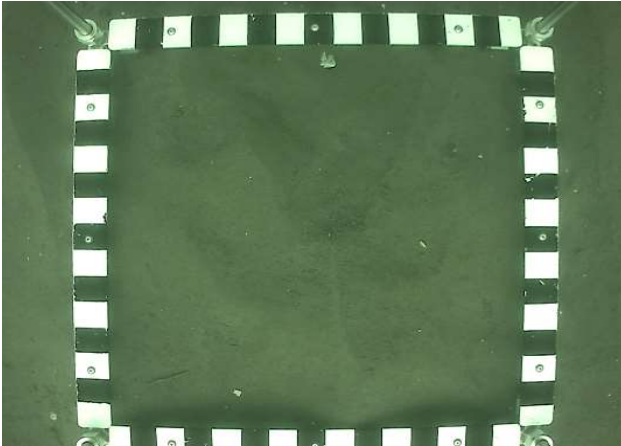
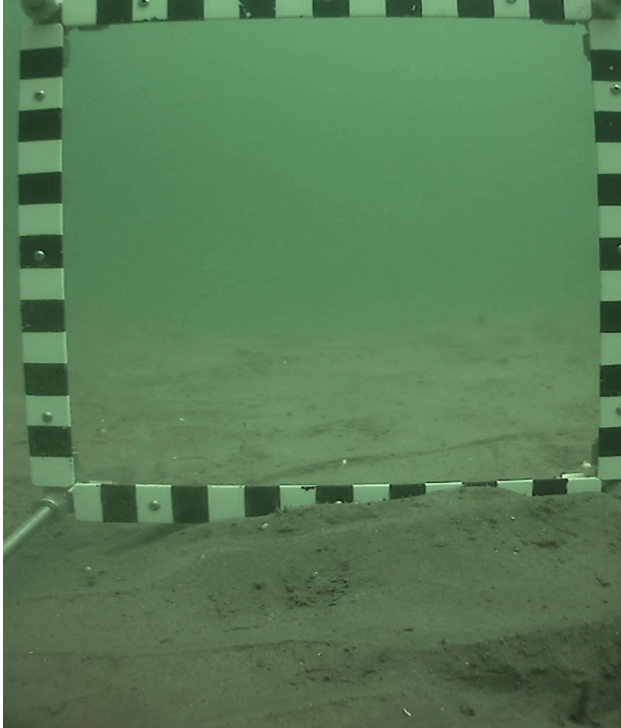
Statistics

Gravel %:	0.4
Pebble %:	0.1
Granule %:	0.3
Sand %:	78.3
Mud %:	21.4
Silt %:	19.6
Clay %:	1.8
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.39
Mean size (mm):	0.10
Sorting (phi):	1.042
Skewness (phi):	0.112
Kurtosis (phi):	1.502
D ₁₀ (phi):	2.09
D ₁₀ (mm):	0.24
D ₅₀ (phi):	3.31
D ₅₀ (mm):	0.10
LOI % (450°C):	0.9

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.09
-1.5	0.20
-1	0.10
-0.5	0.28
0	0.27
0.5	0.36
1	0.63
1.5	1.69
2	5.11
2.5	7.11
3	12.75
3.5	32.33
4	17.74
>4	N/A
5	14.67
6	4.21
7	0.41
8	0.27
9	0.33
10	0.50
Smaller than 10	0.96

GSH14-T36



Sample 1

Station Information

Latitude, Longitude:	42.979925	-70.752487
Water Depth (m):	8.2	
Sample Weight (g):	137.8	
Date Collected, Analyzed:	7/18/2017	6/5/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Very Fine Sand
Mean Size:	Very Fine Sand

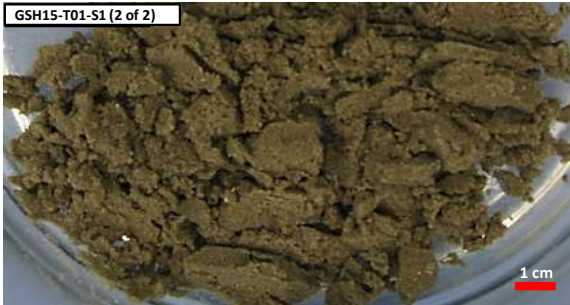
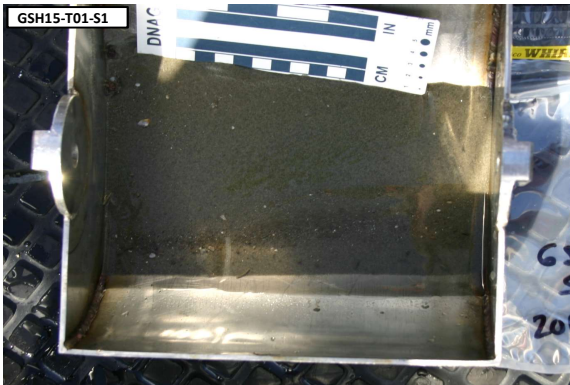
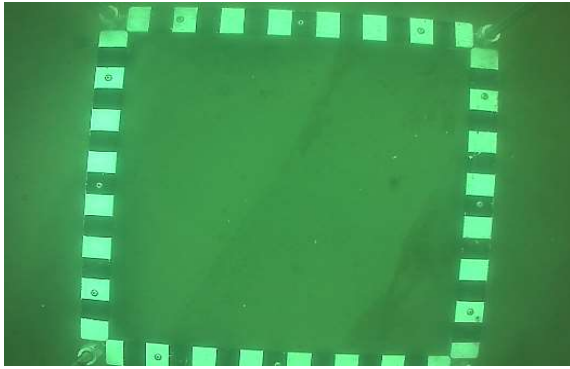
Statistics

Gravel %:	0.5
Pebble %:	0.5
Granule %:	0.0
Sand %:	96.2
Mud %:	3.3
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.10
Mean size (mm):	0.12
Sorting (phi):	0.533
Skewness (phi):	-0.167
Kurtosis (phi):	1.303
D ₁₀ (phi):	2.50
D ₁₀ (mm):	0.18
D ₅₀ (phi):	3.14
D ₅₀ (mm):	0.11
LOI % (450°C):	0.5

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.48
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.03
0	0.08
0.5	0.24
1	0.59
1.5	1.21
2	2.56
2.5	3.68
3	27.25
3.5	45.66
4	14.93
>4	3.30
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH15-T01



Station Information

Latitude, Longitude:	42.930871	-70.790805
Water Depth (m):	7.6	
Sample Weight (g):	201.6	
Date Collected, Analyzed:	11/1/2016	5/30, 5/31/17, 6/5/2018

Sample 1

Sample 2

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Granuley	Slightly Pebbly
Subgroup:	Slightly Granuley Very Fine Sand	Slightly Pebbly Very Fine Sand

Gradistat

Textural Group (GSM):	Slightly Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand	Slightly Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand	Very Fine Sand
Sorting:	Well Sorted	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand	Slightly Pebbly Very Fine Sand
Mean Size:	Very Fine Sand	Very Fine Sand

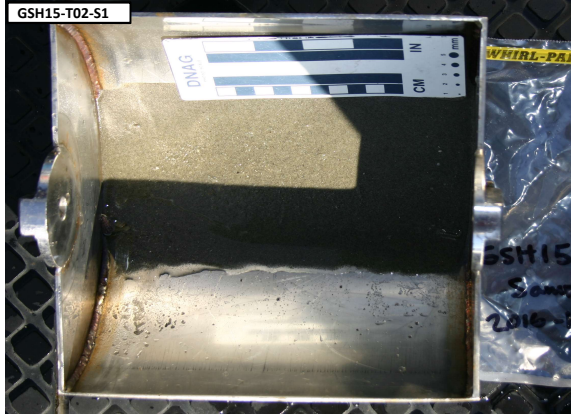
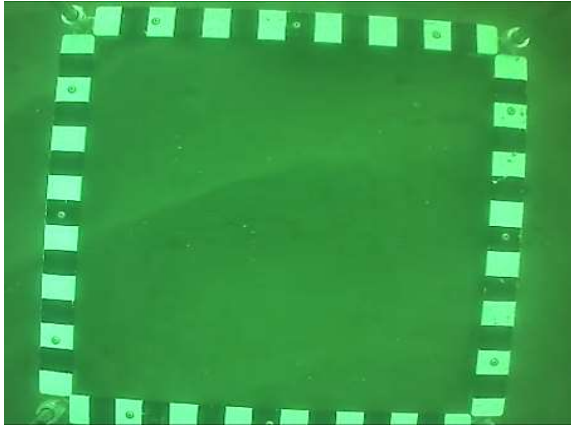
Statistics

Gravel %:	0.1	1.5
Pebble %:	0.0	0.7
Granule %:	0.1	0.7
Sand %:	97.7	96.2
Mud %:	2.3	2.4
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	3.24	3.24
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	3.12	3.12
Mean size (mm):	0.11	0.12
Sorting (phi):	0.394	0.466
Skewness (phi):	-0.106	-0.255
Kurtosis (phi):	1.197	1.637
D ₁₀ (phi):	2.60	2.52
D ₁₀ (mm):	0.17	0.17
D ₅₀ (phi):	3.18	3.19
D ₅₀ (mm):	0.11	0.11
LOI % (450°C):	0.5	0.5

Size Distribution (phi)

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.00	0.00
-2	0.00	0.74
-1.5	0.04	0.62
-1	0.04	0.09
-0.5	0.09	0.09
0	0.06	0.28
0.5	0.11	0.34
1	0.15	0.46
1.5	0.23	0.50
2	0.71	1.15
2.5	2.68	4.04
3	24.97	18.71
3.5	56.13	57.92
4	12.52	12.69
>4	2.26	2.37
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

GSH15-T02



Station Information

Latitude, Longitude:	42.926577	-70.790042
Water Depth (m):	8.8	
Sample Weight (g):	79.5	
Date Collected, Analyzed:	11/1/2016	6/5/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.7
Mud %:	1.3
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.95
Mean size (mm):	0.13
Sorting (phi):	0.443
Skewness (phi):	-0.014
Kurtosis (phi):	1.004
D ₁₀ (phi):	2.38
D ₁₀ (mm):	0.19
D ₅₀ (phi):	2.95
D ₅₀ (mm):	0.13
LOI % (450°C):	0.4

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.00
0	0.02
0.5	0.04
1	0.12
1.5	0.33
2	0.80
2.5	10.78
3	42.16
3.5	38.08
4	6.38
>4	1.30
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Sample 1

Sample 2

Latitude, Longitude:	42.926825	-70.790057
Water Depth (m):	8.8	
Sample Weight (g):	62.5	
Date Collected, Analyzed:	11/1/2016	5/31/2017

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.0
Mud %:	2.0
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.01
Mean size (mm):	0.12
Sorting (phi):	0.474
Skewness (phi):	-0.161
Kurtosis (phi):	1.089
D ₁₀ (phi):	2.38
D ₁₀ (mm):	0.19
D ₅₀ (phi):	3.07
D ₅₀ (mm):	0.12
LOI % (450°C):	0.4

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.09
0	0.05
0.5	0.25
1	0.24
1.5	0.29
2	1.35
2.5	9.60
3	31.05
3.5	46.29
4	8.77
>4	2.02
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH15-T05



Station Information

Latitude, Longitude:	42.947430	-70.775635
Water Depth (m):	13.1	
Sample Weight (g):	119.0	
Date Collected, Analyzed:	11/1/2016	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Gradistat

Textural Group (GSM):	Sand
Textural Group (SZC):	Sand
Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	93.3
Mud %:	6.8
Silt %:	5.9
Clay %:	0.8
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.12
Mean size (mm):	0.12
Sorting (phi):	0.569
Skewness (phi):	0.086
Kurtosis (phi):	1.292
D ₁₀ (phi):	2.51
D ₁₀ (mm):	0.18
D ₅₀ (phi):	3.12
D ₅₀ (mm):	0.12
LOI % (450°C):	0.6

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.01
0	0.02
0.5	0.03
1	0.13
1.5	0.30
2	1.55
2.5	5.57
3	32.69
3.5	39.85
4	13.10
>4	N/A
5	5.24
6	0.41
7	0.16
8	0.12
9	0.03
10	0.14
Smaller than 10	0.64

Sample 1

Sample 2

Latitude, Longitude:	42.947053	-70.775637
Water Depth (m):	13.7	
Sample Weight (g):	59.3	
Date Collected, Analyzed:	11/1/2016	5/25/2017

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Textural Group (GSM):	Sand
Textural Group (SZC):	Sand
Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Moderately Well Sorted

Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	94.0
Mud %:	6.0
Silt %:	4.8
Clay %:	1.2
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.12
Mean size (mm):	0.12
Sorting (phi):	0.587
Skewness (phi):	0.038
Kurtosis (phi):	1.189
D ₁₀ (phi):	2.45
D ₁₀ (mm):	0.18
D ₅₀ (phi):	3.11
D ₅₀ (mm):	0.12
LOI % (450°C):	0.5

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.01
-0.5	0.02
0	0.03
0.5	0.08
1	0.07
1.5	0.30
2	2.11
2.5	7.70
3	30.93
3.5	36.69
4	16.08
>4	N/A
5	4.44
6	0.32
7	0.02
8	0.03
9	0.03
10	0.14
Smaller than 10	1.00

GSH15-T07



Station Information

Latitude, Longitude:	42.935006	-70.767757
Water Depth (m):	21.9	
Sample Weight (g):	270.6	
Date Collected, Analyzed:	10/6/2016	5/22/17, 2/21/18

Sample 1

Sample 2

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Granuley	Slightly Granuley
Subgroup:	Granuley Very Coarse Sand	Slightly Granuley Coarse Sand

Gradistat

Textural Group (GSM):	Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Very Fine Gravelly Very Coarse Sand	Slightly Very Fine Gravelly Coarse Sand
Mean Size:	Very Coarse Sand	Coarse Sand
Sorting:	Moderately Sorted	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Granular Very Coarse Sand	Slightly Granular Coarse Sand
Mean Size:	Very Coarse Sand	Coarse Sand

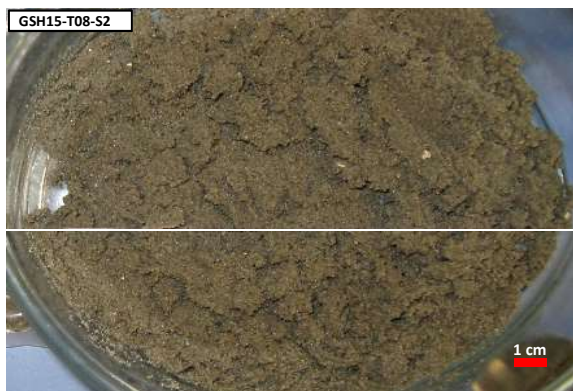
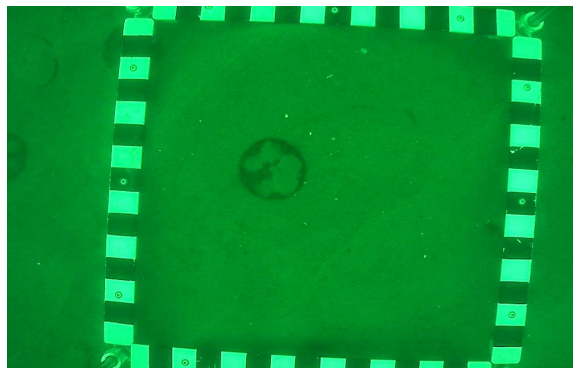
Statistics

Gravel %:	8.3	1.2
Pebble %:	2.6	0.3
Granule %:	5.8	0.9
Sand %:	90.8	97.9
Mud %:	0.9	0.9
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	-0.24	0.25
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	-0.13	0.17
Mean size (mm):	1.10	0.89
Sorting (phi):	0.822	0.641
Skewness (phi):	0.159	0.204
Kurtosis (phi):	1.544	1.349
D ₁₀ (phi):	-0.95	-0.47
D ₁₀ (mm):	1.94	1.38
D ₅₀ (phi):	-0.17	0.11
D ₅₀ (mm):	1.12	0.92
LOI % (450°C):	0.5	N/A

Size Distribution (phi)

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.51	0.00
-3	1.06	0.00
-2.5	0.36	0.20
-2	0.62	0.11
-1.5	1.45	0.17
-1	4.30	0.70
-0.5	18.96	7.60
0	34.62	33.08
0.5	21.33	35.29
1	6.58	12.75
1.5	3.21	4.52
2	2.99	2.70
2.5	1.66	1.08
3	0.96	0.57
3.5	0.35	0.22
4	0.17	0.10
>4	0.87	0.90
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

GSH15-T08



Sample 1

Sample 2

Station Information

Latitude, Longitude:	42.932906	-70.773033
Water Depth (m):	20.1	
Sample Weight (g):	207.0	
Date Collected, Analyzed:	11/1/2016	5/22/17, 6/11/18

Latitude, Longitude:	42.932895	-70.772589
Water Depth (m):	20.1	
Sample Weight (g):	156.5	
Date Collected, Analyzed:	11/1/2016	5/25/17, 2/21/18

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	97.9
Mud %:	2.1
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.52
Mean size (mm):	0.17
Sorting (phi):	0.770
Skewness (phi):	-0.051
Kurtosis (phi):	1.038
D ₁₀ (phi):	1.55
D ₁₀ (mm):	0.34
D ₅₀ (phi):	2.54
D ₅₀ (mm):	0.17
LOI % (450°C):	0.4

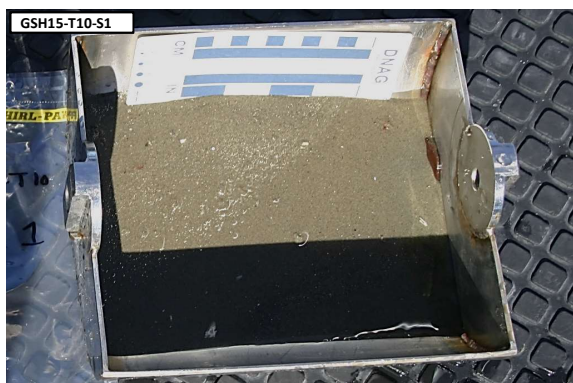
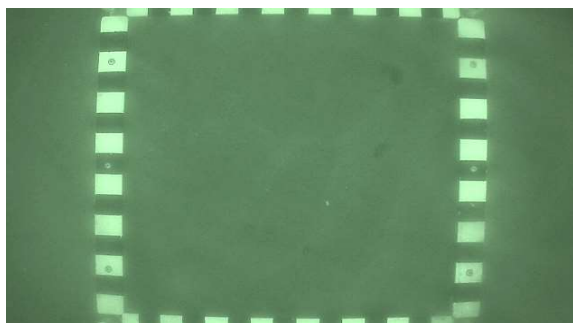
Gravel %:	0.1
Pebble %:	0.0
Granule %:	0.1
Sand %:	96.9
Mud %:	3.1
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.55
Mean size (mm):	0.17
Sorting (phi):	0.802
Skewness (phi):	-0.034
Kurtosis (phi):	1.064
D ₁₀ (phi):	1.55
D ₁₀ (mm):	0.34
D ₅₀ (phi):	2.56
D ₅₀ (mm):	0.17
LOI % (450°C):	0.4

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.03
-1	0.00
-0.5	0.03
0	0.23
0.5	0.93
1	2.07
1.5	4.89
2	15.70
2.5	22.88
3	26.77
3.5	18.36
4	5.98
>4	2.11
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.04
-1.5	0.00
-1	0.06
-0.5	0.06
0	0.24
0.5	0.97
1	2.20
1.5	4.81
2	14.68
2.5	22.67
3	26.19
3.5	17.57
4	7.46
>4	3.05
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH15-T10



Sample 1

Sample 2

Station Information

Latitude, Longitude:	42.922464	-70.780157	42.922273	-70.779691
Water Depth (m):	15.8		15.8	
Sample Weight (g):	157.9		191.9	
Date Collected, Analyzed:	10/6/2016	5/25/17, 2/21/18	10/6/2016	5/25/17, 6/11/18

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Pebbly	Slightly Granuley
Subgroup:	Slightly Pebbly Fine Sand	Slightly Granuley Fine Sand

Gradistat

Textural Group (GSM):	Slightly Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand	Fine Sand
Sorting:	Moderately Well Sorted	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand	Slightly Granular Fine Sand
Mean Size:	Fine Sand	Fine Sand

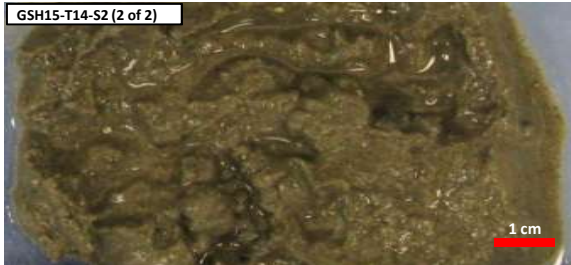
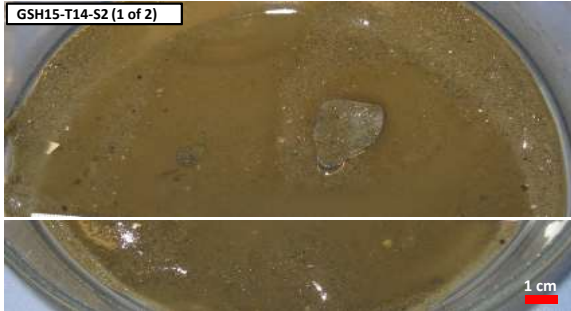
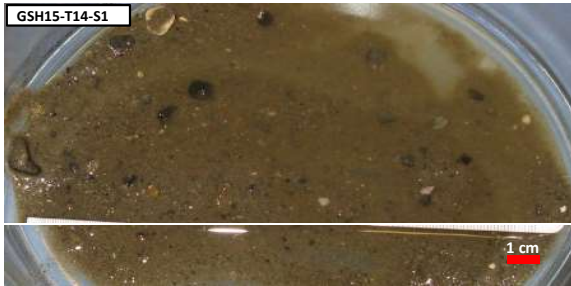
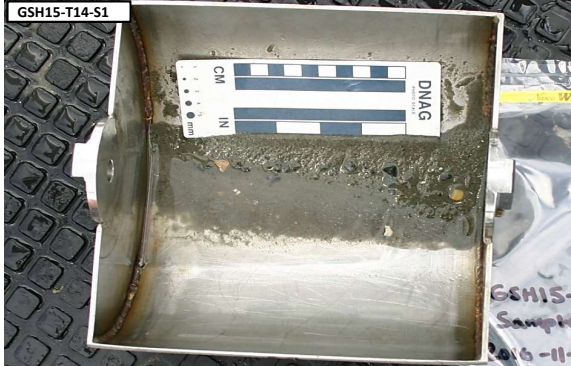
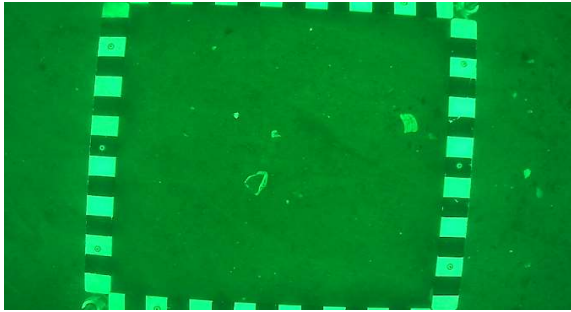
Statistics

Gravel %:	0.2	0.0
Pebble %:	0.1	0.0
Granule %:	0.0	0.0
Sand %:	97.0	97.8
Mud %:	2.9	2.2
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	3.24	3.24
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	2.79	2.79
Mean size (mm):	0.14	0.14
Sorting (phi):	0.689	0.648
Skewness (phi):	-0.113	-0.115
Kurtosis (phi):	1.000	1.025
D ₁₀ (phi):	1.85	1.92
D ₁₀ (mm):	0.28	0.26
D ₅₀ (phi):	2.85	2.84
D ₅₀ (mm):	0.14	0.14
LOI % (450°C):	0.4	0.4

Size Distribution (phi)

(phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.12	0.00
-2	0.00	0.00
-1.5	0.02	0.01
-1	0.02	0.02
-0.5	0.04	0.01
0	0.07	0.03
0.5	0.14	0.11
1	0.74	0.50
1.5	2.49	1.87
2	9.13	8.78
2.5	17.30	17.24
3	28.10	30.63
3.5	27.96	29.84
4	10.99	8.75
>4	2.87	2.21
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

GSH15-T14



Station Information

Latitude, Longitude:	42.944763	-70.761670
Water Depth (m):	23.5	
Sample Weight (g):	25.6	
Date Collected, Analyzed:	11/1/2016	6/1/2017

Sample 1

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Very Fine Sand

Gradistat

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebbly Very Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	11.6
Pebble %:	6.3
Granule %:	5.3
Sand %:	84.2
Mud %:	4.2
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	-2.74
Mode 3 (phi):	N/A
Mean size (phi):	2.06
Mean size (mm):	0.24
Sorting (phi):	1.724
Skewness (phi):	-0.421
Kurtosis (phi):	1.463
D ₁₀ (phi):	-1.49
D ₁₀ (mm):	2.81
D ₅₀ (phi):	2.41
D ₅₀ (mm):	0.19
LOI % (450°C):	0.8

Sample 2

Latitude, Longitude:	42.944854	-70.761584
Water Depth (m):	23.8	
Sample Weight (g):	102.6	
Date Collected, Analyzed:	11/1/2016	5/31/17, 6/11/18

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Muddy Sand

Textural Group (GSM):	Gravelly Muddy Sand
Textural Group (SZC):	N/A
Sediment Name:	Coarse Gravelly Very Coarse Silty Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Poorly Sorted

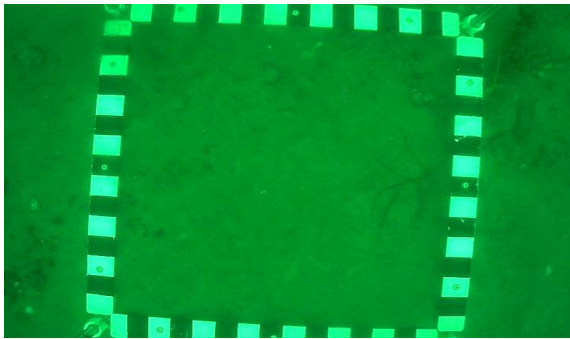
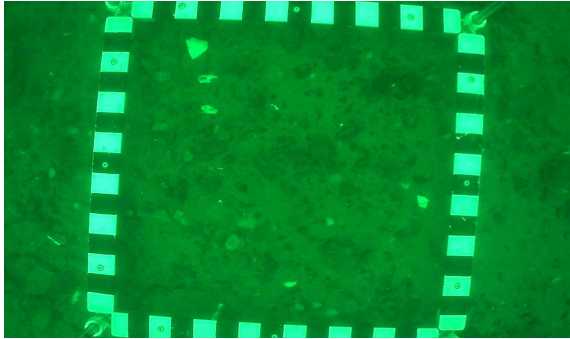
Sediment Name:	Pebbly Very Coarse Silty Very Fine Sand
Mean Size:	Fine Sand

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	4.07
-2	2.21
-1.5	3.77
-1	1.52
-0.5	1.49
0	1.66
0.5	1.92
1	2.57
1.5	5.24
2	12.51
2.5	14.97
3	10.46
3.5	22.77
4	10.63
>4	4.22
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)
0.00
0.00
0.00
0.00
0.00
0.00
0.76
0.00
1.08
1.06
1.07
1.11
1.26
1.61
3.69
9.68
12.24
12.81
25.47
14.16
N/A
8.18
1.32
0.33
0.28
0.11
0.18
1.47

GSH15-T15



Station Information

Latitude, Longitude:	42.941103	-70.762389
Water Depth (m):	82.0	
Sample Weight (g):	335.3	
Date Collected, Analyzed:	11/1/2016	5/30/2018

Sample 1

Latitude, Longitude:	42.941103	-70.762389
Water Depth (m):	82.0	
Sample Weight (g):	335.3	
Date Collected, Analyzed:	11/1/2016	5/30/2018

Sample 2

Latitude, Longitude:	42.941348	-70.762455
Water Depth (m):	25.0	
Sample Weight (g):	193.5	
Date Collected, Analyzed:	11/1/2016	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Granule Mixes
Subgroup:	Sandy Granule Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Granule Mixes
Subgroup:	Sandy Granule Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Very Fine Gravel
Mean Size:	Very Coarse Sand
Sorting:	Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Very Fine Gravel
Mean Size:	Very Coarse Sand
Sorting:	Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Fine Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Granule
Mean Size:	Very Coarse Sand

Sediment Name:	Sandy Granule
Mean Size:	Very Coarse Sand

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Statistics

Gravel %:	38.6
Pebble %:	16.8
Granule %:	21.8
Sand %:	61.1
Mud %:	0.3
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-0.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-0.80
Mean size (mm):	1.74
Sorting (phi):	1.332
Skewness (phi):	-0.004
Kurtosis (phi):	1.363
D ₁₀ (phi):	-2.59
D ₁₀ (mm):	6.01
D ₅₀ (phi):	-0.76
D ₅₀ (mm):	1.69
LOI % (450°C):	0.6

Gravel %:	38.6
Pebble %:	16.8
Granule %:	21.8
Sand %:	61.1
Mud %:	0.3
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-0.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-0.80
Mean size (mm):	1.74
Sorting (phi):	1.332
Skewness (phi):	-0.004
Kurtosis (phi):	1.363
D ₁₀ (phi):	-2.59
D ₁₀ (mm):	6.01
D ₅₀ (phi):	-0.76
D ₅₀ (mm):	1.69
LOI % (450°C):	0.6

Gravel %:	46.0
Pebble %:	32.7
Granule %:	13.3
Sand %:	50.6
Mud %:	3.4
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-2.74
Mode 2 (phi):	1.25
Mode 3 (phi):	N/A
Mean size (phi):	-0.57
Mean size (mm):	1.48
Sorting (phi):	2.262
Skewness (phi):	0.131
Kurtosis (phi):	0.796
D ₁₀ (phi):	-3.22
D ₁₀ (mm):	9.31
D ₅₀ (phi):	-0.68
D ₅₀ (mm):	1.60
LOI % (450°C):	0.6

Size Distribution (phi)

-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	2.17
-3	2.57
-2.5	6.57
-2	5.51
-1.5	8.11
-1	13.65
-0.5	23.94
0	14.78
0.5	7.91
1	5.22
1.5	3.54
2	2.51
2.5	0.97
3	0.48
3.5	0.93
4	0.86
>4	0.27
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	2.17
-3	2.57
-2.5	6.57
-2	5.51
-1.5	8.11
-1	13.65
-0.5	23.94
0	14.78
0.5	7.91
1	5.22
1.5	3.54
2	2.51
2.5	0.97
3	0.48
3.5	0.93
4	0.86
>4	0.27
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	5.78
-3	7.70
-2.5	11.09
-2	8.12
-1.5	7.02
-1	6.25
-0.5	6.54
0	6.46
0.5	6.51
1	6.73
1.5	7.02
2	6.61
2.5	3.06
3	2.78
3.5	3.07
4	1.86
>4	3.41
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T01

Sample 1



Station Information

Latitude, Longitude:	43.045297	-70.697871
Water Depth (m):	16.8	
Sample Weight (g):	103.6	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat Results

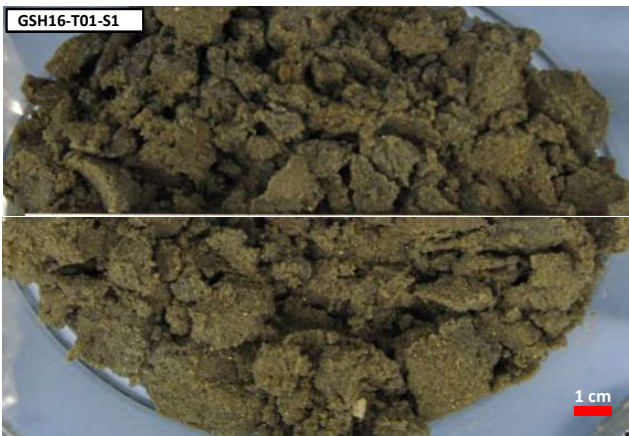
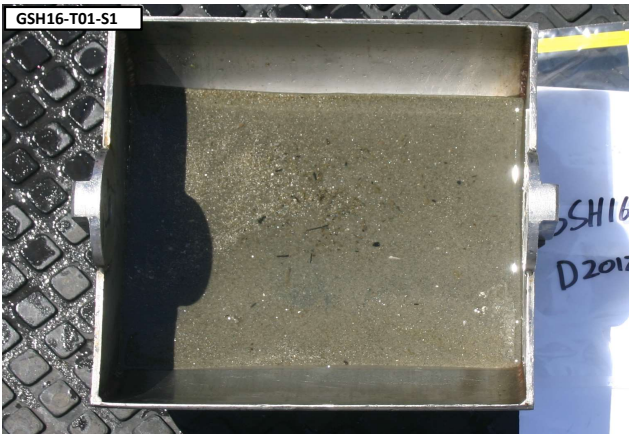
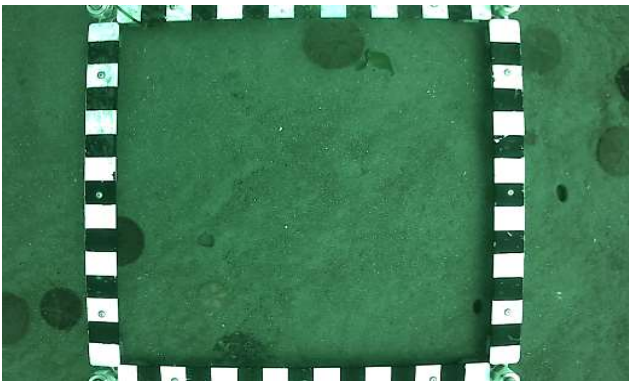
Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Fine Sand

Statistics

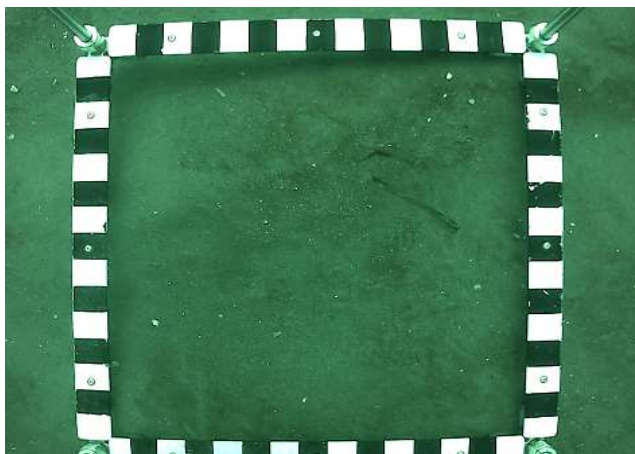
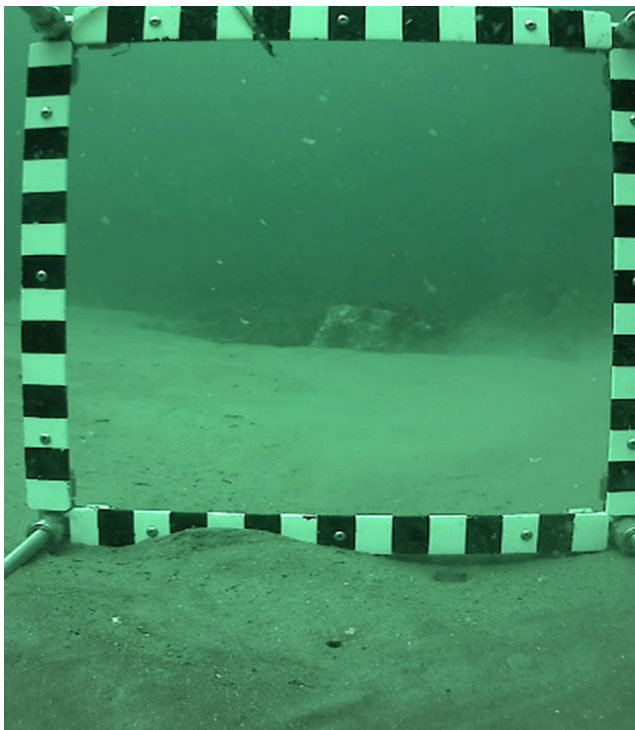
Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.8
Mud %:	1.2
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.84
Mean size (mm):	0.14
Sorting (phi):	0.378
Skewness (phi):	0.073
Kurtosis (phi):	1.221
D ₁₀ (phi):	2.35
D ₁₀ (mm):	0.20
D ₅₀ (phi):	2.80
D ₅₀ (mm):	0.14
LOI % (450°C):	0.6



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.02
0	0.02
0.5	0.04
1	0.06
1.5	0.24
2	2.14
2.5	10.23
3	61.10
3.5	22.86
4	2.06
>4	1.22
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T02



Sample 1

Station Information

Latitude, Longitude:	43.042899	-70.697748
Water Depth (m):	17.1	
Sample Weight (g):	109.5	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Fine Sand

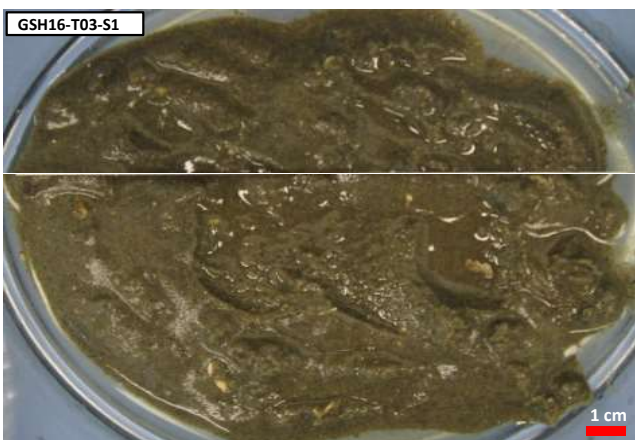
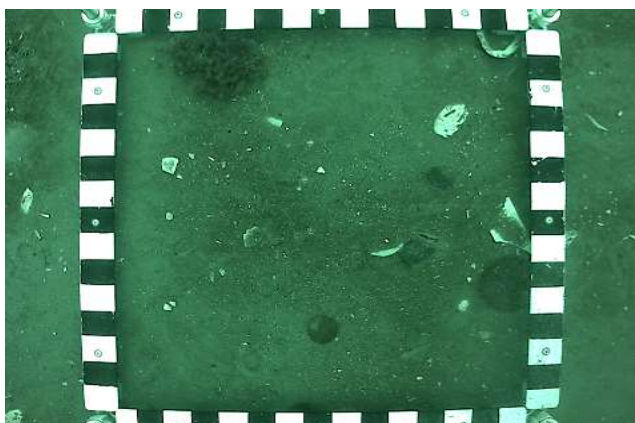
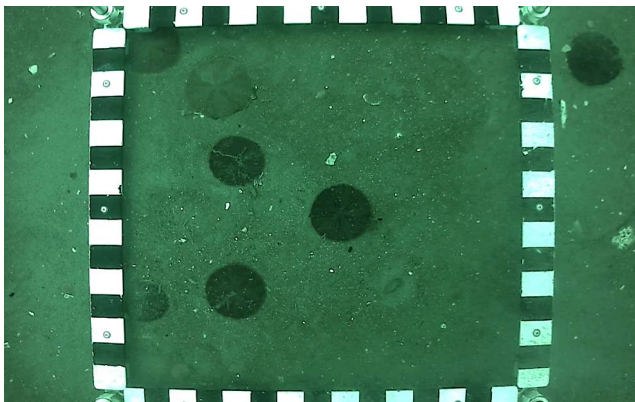
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	99.2
Mud %:	0.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.80
Mean size (mm):	0.14
Sorting (phi):	0.369
Skewness (phi):	0.045
Kurtosis (phi):	1.330
D ₁₀ (phi):	2.27
D ₁₀ (mm):	0.21
D ₅₀ (phi):	2.77
D ₅₀ (mm):	0.15
LOI % (450°C):	0.5

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.01
0	0.03
0.5	0.06
1	0.20
1.5	0.50
2	2.85
2.5	11.19
3	63.26
3.5	19.70
4	1.40
>4	0.81
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T03



Sample 1

Station Information

Latitude, Longitude:	43.041998	-70.694267
Water Depth (m):	16.2	
Sample Weight (g):	102.7	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Fine Sand

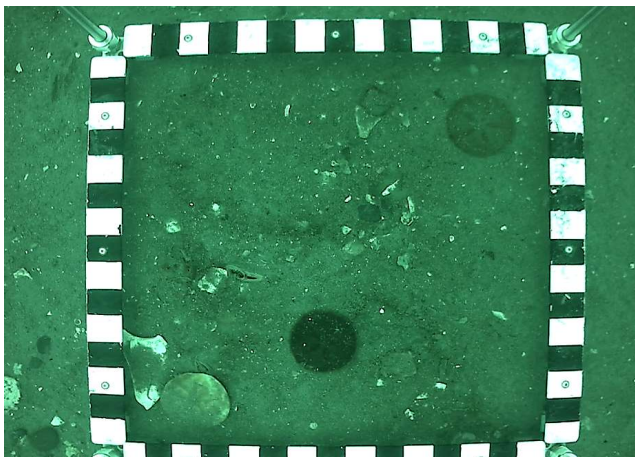
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.7
Mud %:	1.3
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.86
Mean size (mm):	0.14
Sorting (phi):	0.534
Skewness (phi):	-0.242
Kurtosis (phi):	1.220
D ₁₀ (phi):	1.95
D ₁₀ (mm):	0.26
D ₅₀ (phi):	2.89
D ₅₀ (mm):	0.14
LOI % (450°C):	0.7

Size Distribution (phi)

Size (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.05
0	0.10
0.5	0.18
1	0.74
1.5	3.16
2	6.42
2.5	7.17
3	41.11
3.5	36.38
4	3.40
>4	1.28
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T04



Sample 1

Station Information

Latitude, Longitude:	43.039079	-70.686425
Water Depth (m):	21.3	
Sample Weight (g):	176.0	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebby Fine Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Fine Sand
Mean Size:	Medium Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebby Fine Sand
Mean Size:	Medium Sand

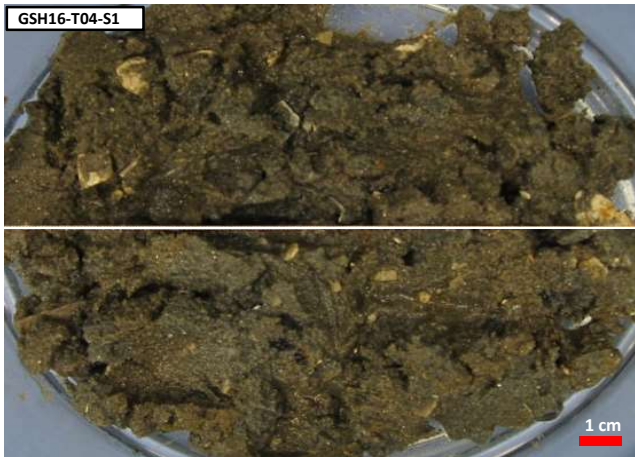
Statistics

Gravel %:	15.7
Pebble %:	15.1
Granule %:	0.6
Sand %:	82.9
Mud %:	1.5
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	-3.74
Mode 3 (phi):	N/A
Mean size (phi):	1.65
Mean size (mm):	0.32
Sorting (phi):	2.072
Skewness (phi):	-0.671
Kurtosis (phi):	1.996
D ₁₀ (phi):	-3.51
D ₁₀ (mm):	11.42
D ₅₀ (phi):	2.46
D ₅₀ (mm):	0.18
LOI % (450°C):	0.7

GSH16-T04-S1



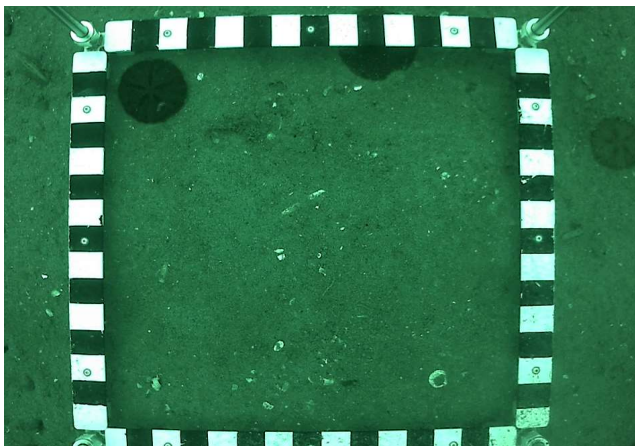
GSH16-T04-S1



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	10.57
-3	3.88
-2.5	0.00
-2	0.66
-1.5	0.28
-1	0.27
-0.5	0.61
0	0.61
0.5	1.01
1	2.22
1.5	4.66
2	10.73
2.5	15.09
3	25.05
3.5	19.93
4	2.95
>4	1.47
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T05



Sample 1

Station Information

Latitude, Longitude:	43.035313	-70.683228
Water Depth (m):	25.9	
Sample Weight (g):	195.0	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebby Fine Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebby Fine Sand
Mean Size:	Fine Sand

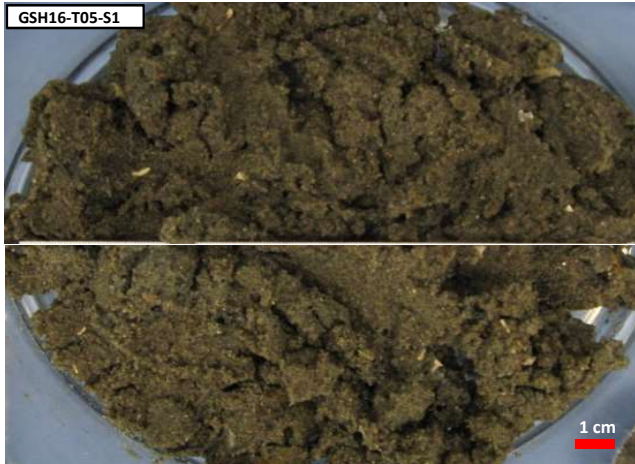
Statistics

Gravel %:	7.7
Pebble %:	5.9
Granule %:	1.8
Sand %:	90.8
Mud %:	1.5
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.08
Mean size (mm):	0.24
Sorting (phi):	1.442
Skewness (phi):	-0.466
Kurtosis (phi):	1.780
D ₁₀ (phi):	-0.02
D ₁₀ (mm):	1.02
D ₅₀ (phi):	2.31
D ₅₀ (mm):	0.20
LOI % (450°C):	0.6

GSH16-T05-S1



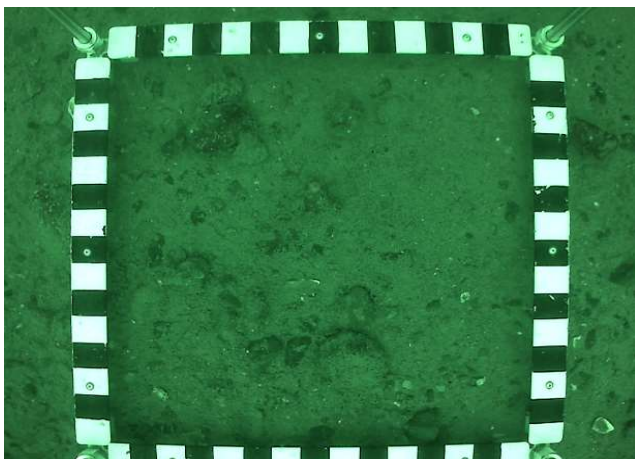
GSH16-T05-S1



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	1.36
-3	1.70
-2.5	1.86
-2	0.97
-1.5	1.04
-1	0.77
-0.5	0.91
0	1.47
0.5	2.66
1	4.52
1.5	7.38
2	14.26
2.5	16.99
3	26.07
3.5	14.38
4	2.18
>4	1.48
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T06



Sample 1

Station Information

Latitude, Longitude:	43.031908	-70.682273
Water Depth (m):	27.7	
Sample Weight (g):	319.3	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Coarse Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Granule Gravel

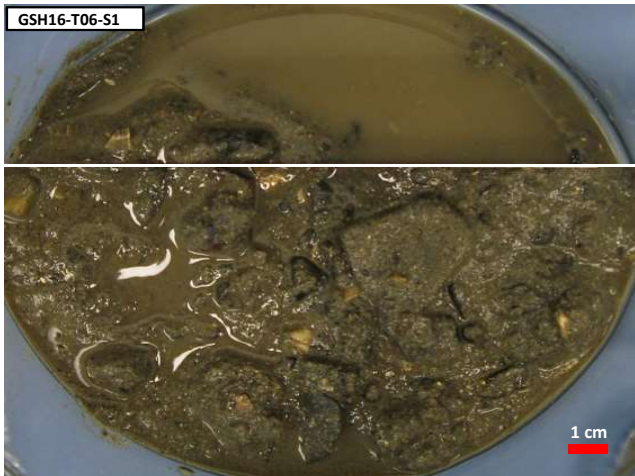
Statistics

Gravel %:	51.7
Pebble %:	48.3
Granule %:	3.4
Sand %:	45.9
Mud %:	2.4
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-4.73
Mode 2 (phi):	1.25
Mode 3 (phi):	N/A
Mean size (phi):	-1.18
Mean size (mm):	2.26
Sorting (phi):	2.893
Skewness (phi):	0.168
Kurtosis (phi):	0.613
D ₁₀ (phi):	-4.63
D ₁₀ (mm):	24.74
D ₅₀ (phi):	-1.51
D ₅₀ (mm):	2.85
LOI % (450°C):	0.8

GSH16-T06-S2



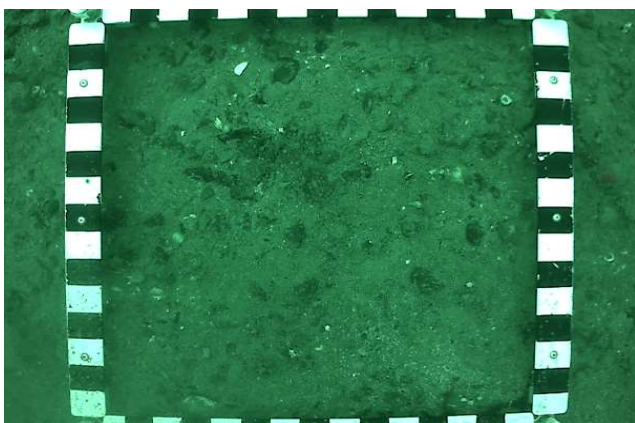
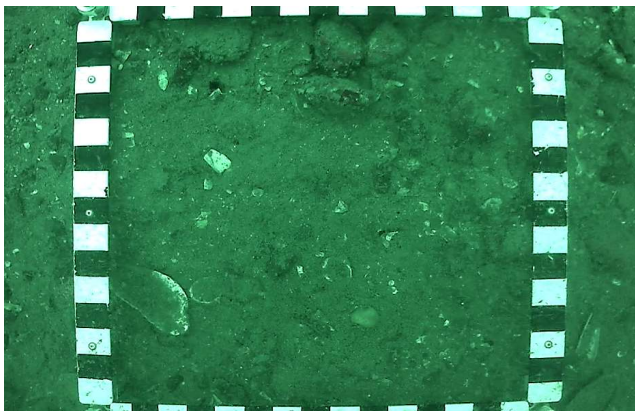
GSH16-T06-S1



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	14.13
-4	6.40
-3.5	10.26
-3	9.76
-2.5	4.39
-2	3.37
-1.5	1.77
-1	1.66
-0.5	1.66
0	1.67
0.5	3.60
1	6.55
1.5	7.78
2	7.04
2.5	5.74
3	6.93
3.5	3.76
4	1.13
>4	2.39
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T07



Sample 1

Station Information

Latitude, Longitude:	43.026767	-70.677968
Water Depth (m):	25.9	
Sample Weight (g):	282.9	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

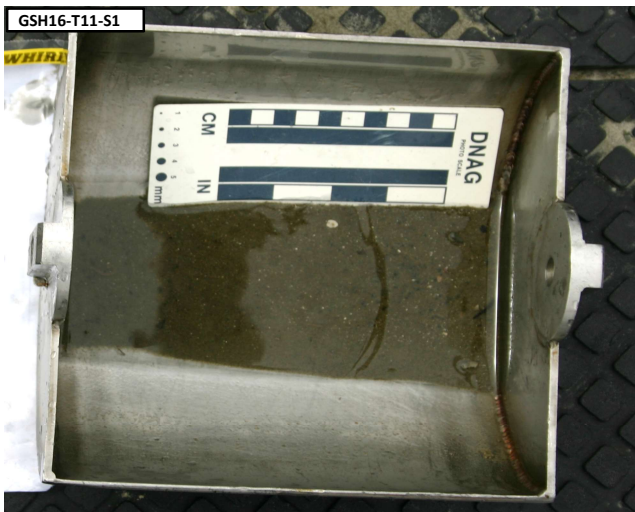
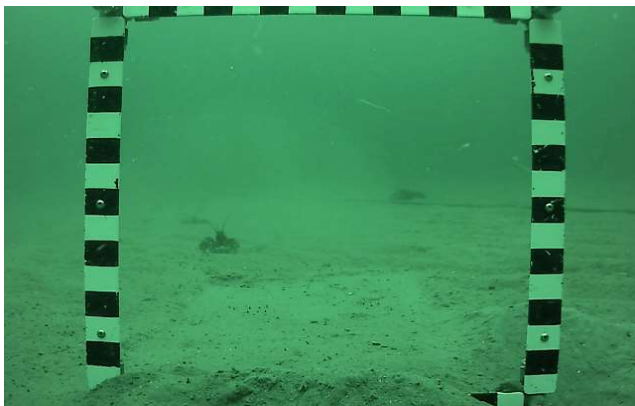
Statistics

Gravel %:	52.5
Pebble %:	43.0
Granule %:	9.5
Sand %:	43.2
Mud %:	4.3
Silt %:	2.8
Clay %:	1.6
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	1.75
Mode 3 (phi):	N/A
Mean size (phi):	-0.94
Mean size (mm):	1.91
Sorting (phi):	2.579
Skewness (phi):	0.236
Kurtosis (phi):	0.679
D ₁₀ (phi):	-3.80
D ₁₀ (mm):	13.88
D ₅₀ (phi):	-1.27
D ₅₀ (mm):	2.41
LOI % (450°C):	0.7

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	2.43
-3.5	19.03
-3	6.91
-2.5	8.36
-2	6.28
-1.5	4.97
-1	4.55
-0.5	4.79
0	4.37
0.5	5.05
1	5.20
1.5	4.59
2	6.34
2.5	5.55
3	4.14
3.5	2.13
4	1.00
>4	N/A
5	0.92
6	0.77
7	0.87
8	0.19
9	0.48
10	0.31
Smaller than 10	0.77

GSH16-T11



Sample 1

Station Information

Latitude, Longitude:	43.024464	-70.704939
Water Depth (m):	18.9	
Sample Weight (g):	84.9	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

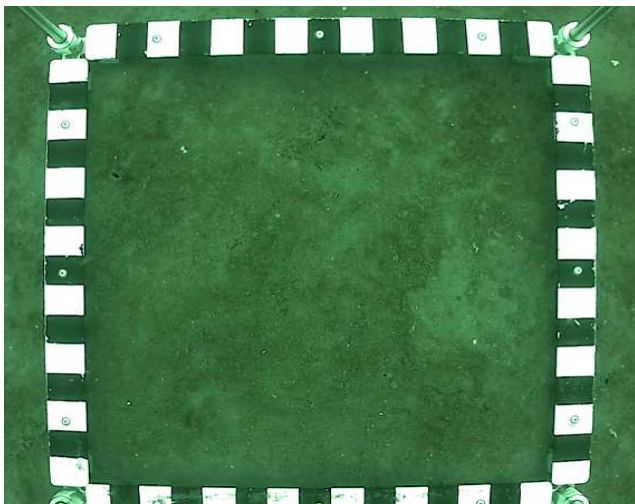
Statistics

Gravel %:	0.4
Pebble %:	0.3
Granule %:	0.1
Sand %:	96.9
Mud %:	2.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.97
Mean size (mm):	0.13
Sorting (phi):	0.454
Skewness (phi):	-0.070
Kurtosis (phi):	1.150
D ₁₀ (phi):	2.49
D ₁₀ (mm):	0.18
D ₅₀ (phi):	2.98
D ₅₀ (mm):	0.13
LOI % (450°C):	0.4

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.31
-1.5	0.05
-1	0.09
-0.5	0.26
0	0.28
0.5	0.43
1	0.60
1.5	0.85
2	1.70
2.5	4.00
3	43.11
3.5	41.19
4	4.49
>4	2.65
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T12



Sample 1

Station Information

Latitude, Longitude:	43.025693	-70.710856
Water Depth (m):	15.8	
Sample Weight (g):	101.9	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Fine Sand
Sorting:	Very Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Fine Sand



Statistics

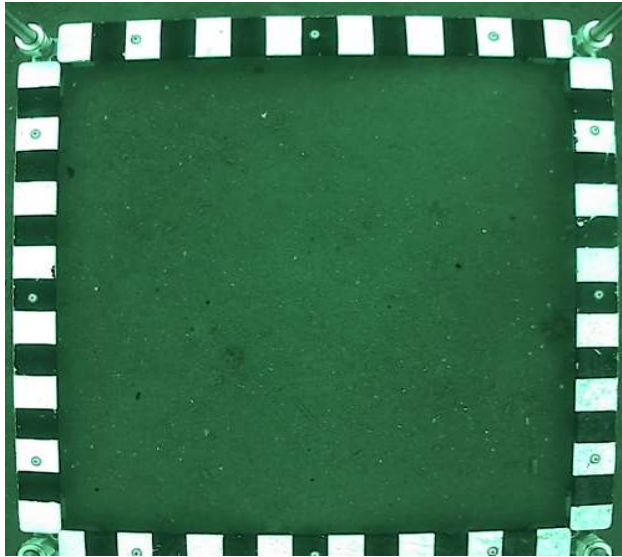
Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.4
Mud %:	1.6
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.91
Mean size (mm):	0.13
Sorting (phi):	0.331
Skewness (phi):	0.194
Kurtosis (phi):	0.813
D ₁₀ (phi):	2.52
D ₁₀ (mm):	0.17
D ₅₀ (phi):	2.86
D ₅₀ (mm):	0.14
LOI % (450°C):	0.6



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.03
0	0.02
0.5	0.03
1	0.05
1.5	0.03
2	0.58
2.5	4.29
3	60.58
3.5	30.01
4	2.76
>4	1.63
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T14



Sample 1

Station Information

Latitude, Longitude:	43.030153	-70.702878
Water Depth (m):	17.7	
Sample Weight (g):	122.5	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.3
Mud %:	1.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.89
Mean size (mm):	0.13
Sorting (phi):	0.381
Skewness (phi):	0.060
Kurtosis (phi):	1.010
D ₁₀ (phi):	2.49
D ₁₀ (mm):	0.18
D ₅₀ (phi):	2.85
D ₅₀ (mm):	0.14
LOI % (450°C):	0.6

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.04
-0.5	0.07
0	0.11
0.5	0.18
1	0.30
1.5	0.55
2	1.35
2.5	6.23
3	57.34
3.5	29.46
4	2.71
>4	1.65
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

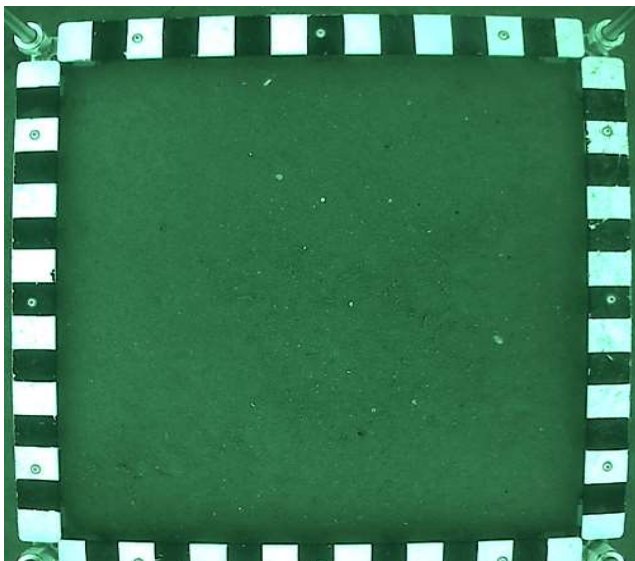
GSH16-T14-S1



GSH16-T14-S1



GSH16-T15



Sample 1

Station Information

Latitude, Longitude:	43.031050	-70.698484
Water Depth (m):	17.7	
Sample Weight (g):	124.1	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradstat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradstat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.2
Pebble %:	0.2
Granule %:	0.1
Sand %:	97.6
Mud %:	2.1
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.96
Mean size (mm):	0.13
Sorting (phi):	0.355
Skewness (phi):	0.126
Kurtosis (phi):	0.813
D ₁₀ (phi):	2.53
D ₁₀ (mm):	0.17
D ₅₀ (phi):	2.93
D ₅₀ (mm):	0.13
LOI % (450°C):	0.7

GSH16-T15-S1



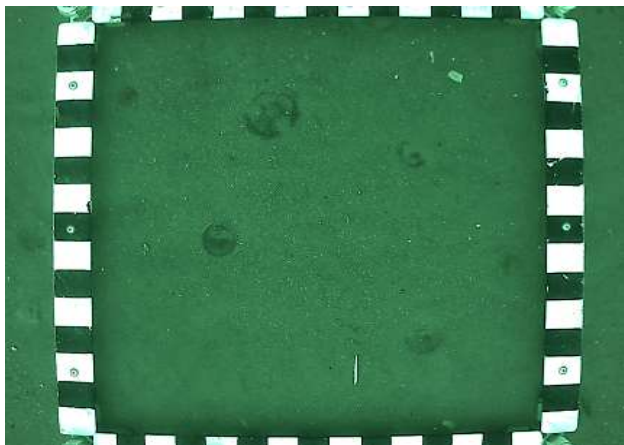
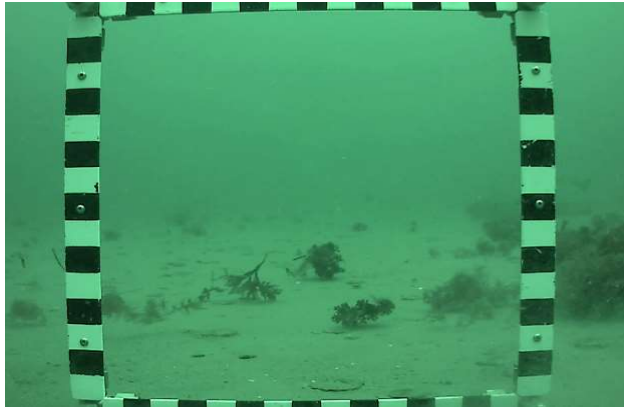
Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.16
-1.5	0.00
-1	0.06
-0.5	0.00
0	0.01
0.5	0.05
1	0.08
1.5	0.17
2	0.61
2.5	3.67
3	51.77
3.5	37.75
4	3.53
>4	2.13
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T15-S1



GSH16-T17



Sample 2

Station Information

Latitude, Longitude:	43.034038	-70.693748
Water Depth (m):	18.3	
Sample Weight (g):	103.3	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Very Fine Sand

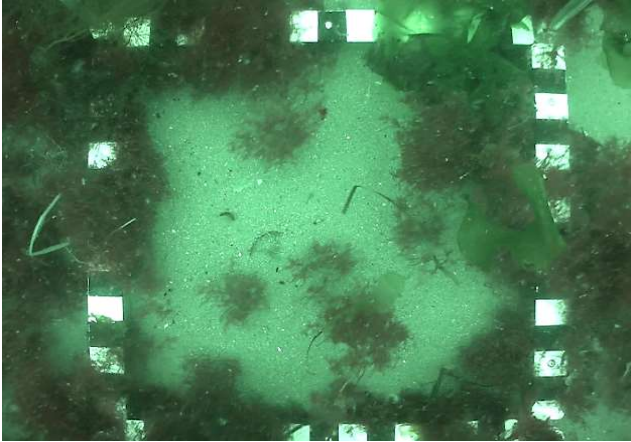
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	97.5
Mud %:	2.5
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.02
Mean size (mm):	0.12
Sorting (phi):	0.398
Skewness (phi):	0.001
Kurtosis (phi):	0.953
D ₁₀ (phi):	2.54
D ₁₀ (mm):	0.17
D ₅₀ (phi):	3.04
D ₅₀ (mm):	0.12
LOI % (450°C):	0.6

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.04
-0.5	0.03
0	0.03
0.5	0.04
1	0.07
1.5	0.20
2	1.02
2.5	3.79
3	40.51
3.5	45.68
4	6.08
>4	2.50
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T18



Sample 1

Station Information

Latitude, Longitude:	43.036400	-70.695581
Water Depth (m):	16.8	
Sample Weight (g):	120.8	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMEDS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Well Sorted Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.8
Mud %:	1.2
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.95
Mean size (mm):	0.13
Sorting (phi):	0.364
Skewness (phi):	-0.013
Kurtosis (phi):	0.837
D ₁₀ (phi):	2.51
D ₁₀ (mm):	0.18
D ₅₀ (phi):	2.94
D ₅₀ (mm):	0.13
LOI % (450°C):	0.6

GSH16-T18-S2



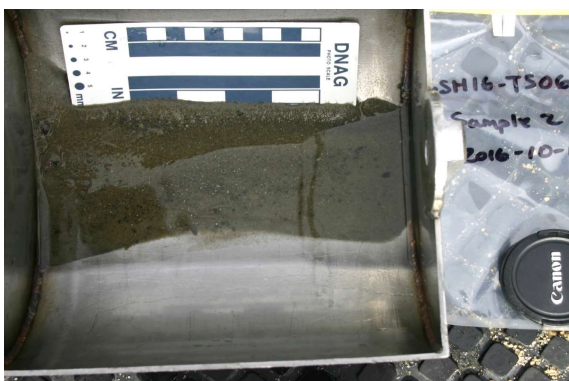
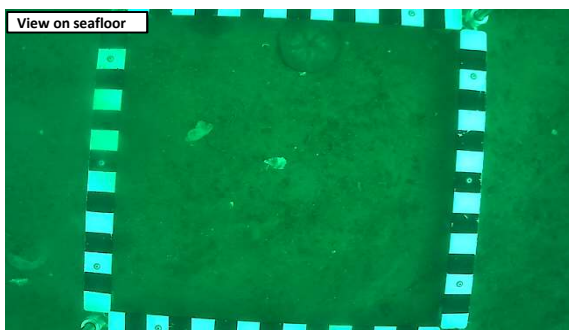
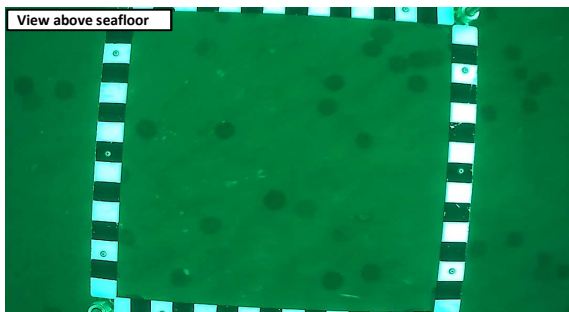
GSH16-T18-S1



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.01
0	0.02
0.5	0.03
1	0.05
1.5	0.17
2	1.35
2.5	4.89
3	49.07
3.5	39.62
4	3.56
>4	1.23
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-TS06



Station Information

Latitude, Longitude:	42.855997	-70.794752
Water Depth (m):	18.0	
Sample Weight (g):	55.1	
Date Analyzed:	10/13/2016	5/22/2017

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	96.1
Mud %:	3.9
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.88
Mean size (mm):	0.14
Sorting (phi):	0.652
Skewness (phi):	-0.109
Kurtosis (phi):	1.181
D ₁₀ (phi):	2.03
D ₁₀ (mm):	0.24
D ₅₀ (phi):	2.92
D ₅₀ (mm):	0.13
LOI % (450°C):	0.6

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.31
0	0.29
0.5	0.43
1	0.61
1.5	1.72
2	5.82
2.5	13.05
3	32.96
3.5	29.64
4	11.30
>4	3.87
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Sample 1

Sample 2

Latitude, Longitude:	42.855877	-70.794708
Water Depth (m):	18.0	
Sample Weight (g):	32.2	
Date Analyzed:	10/13/2016	6/1/2017

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

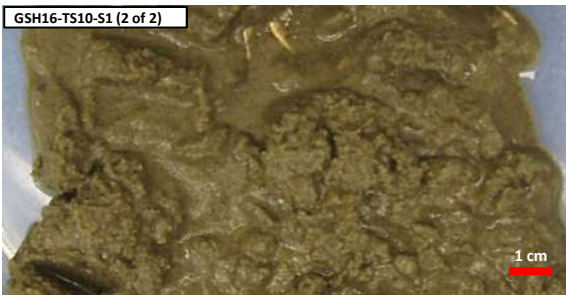
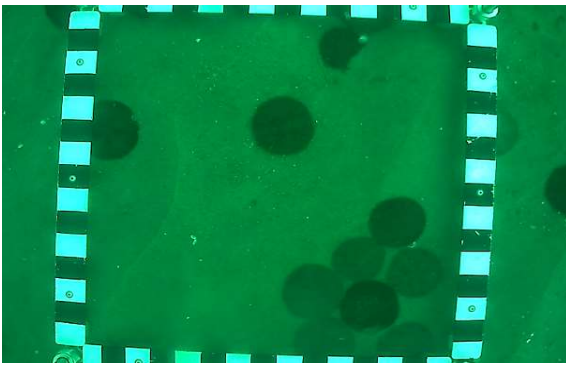
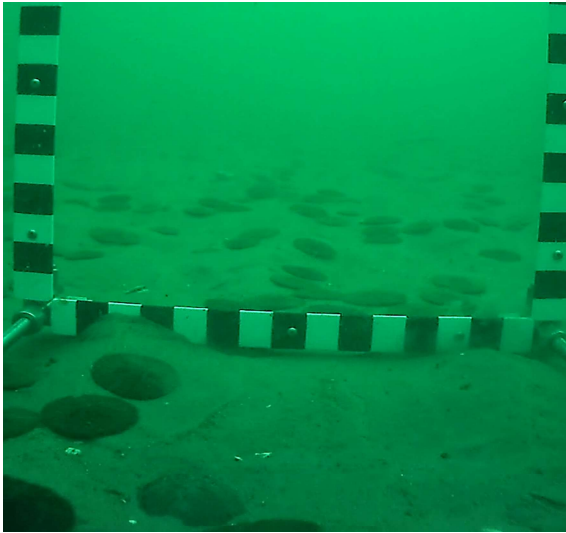
Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Fine Sand

Gravel %:	0.7
Pebble %:	0.2
Granule %:	0.5
Sand %:	96.4
Mud %:	2.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.81
Mean size (mm):	0.14
Sorting (phi):	0.729
Skewness (phi):	-0.308
Kurtosis (phi):	1.076
D ₁₀ (phi):	1.74
D ₁₀ (mm):	0.30
D ₅₀ (phi):	2.96
D ₅₀ (mm):	0.13
LOI % (450°C):	0.5

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.22
-1.5	0.18
-1	0.32
-0.5	0.30
0	0.47
0.5	0.81
1	0.99
1.5	2.81
2	7.99
2.5	15.86
3	21.76
3.5	36.45
4	8.99
>4	2.84
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-TS10



Sample 1

Sample 2

Station Information

Latitude, Longitude:	42.853463	-70.799742
Water Depth (m):	17.4	
Sample Weight (g):	209.3	
Date Analyzed:	10/13/2016	5/22/17, 6/28/18

Latitude, Longitude:	42.853333	-70.799738
Water Depth (m):	17.4	
Sample Weight (g):	63.9	
Date Analyzed:	10/13/2016	5/25/2017

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	96.7
Mud %:	3.3
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.76
Mean size (mm):	0.15
Sorting (phi):	0.721
Skewness (phi):	-0.093
Kurtosis (phi):	1.061
D ₁₀ (phi):	1.76
D ₁₀ (mm):	0.30
D ₅₀ (phi):	2.80
D ₅₀ (mm):	0.14
LOI % (450°C):	0.5

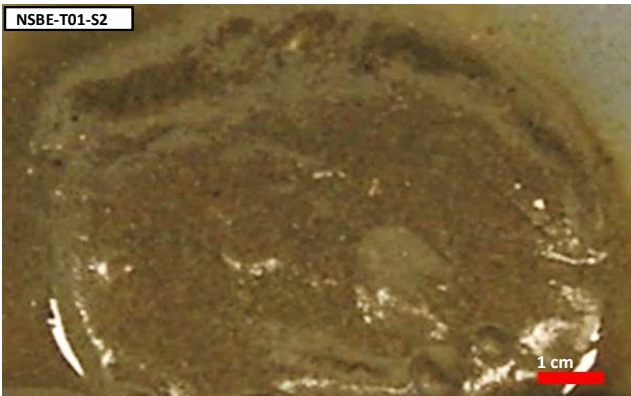
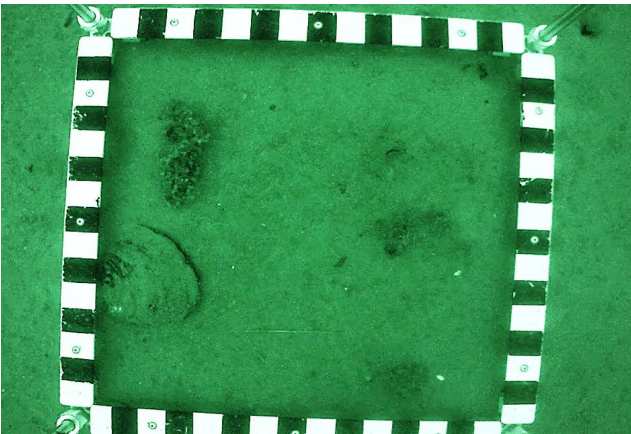
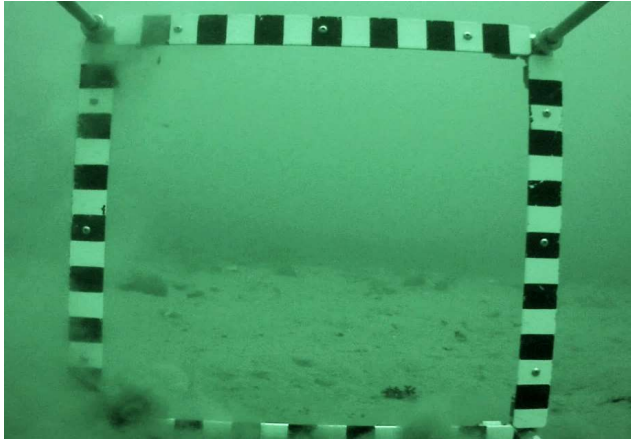
Gravel %:	0.9
Pebble %:	0.7
Granule %:	0.2
Sand %:	95.6
Mud %:	3.4
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.58
Mean size (mm):	0.17
Sorting (phi):	0.868
Skewness (phi):	-0.118
Kurtosis (phi):	1.128
D ₁₀ (phi):	1.47
D ₁₀ (mm):	0.36
D ₅₀ (phi):	2.63
D ₅₀ (mm):	0.16
LOI % (450°C):	0.5

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.01
-1	0.01
-0.5	0.02
0	0.13
0.5	0.66
1	1.65
1.5	2.88
2	8.90
2.5	16.88
3	30.68
3.5	24.31
4	10.59
>4	3.28
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.48
-2.5	0.00
-2	0.23
-1.5	0.15
-1	0.07
-0.5	0.14
0	0.21
0.5	1.27
1	3.02
1.5	4.67
2	12.27
2.5	19.38
3	27.41
3.5	18.03
4	9.23
>4	3.44
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T01



Sample 2

Station Information

Latitude, Longitude:	42.968322	-70.660788
Water Depth (m):	43.3	
Sample Weight (g):	53.9	
Date Collected, Analyzed:	8/8/2017	8/17/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

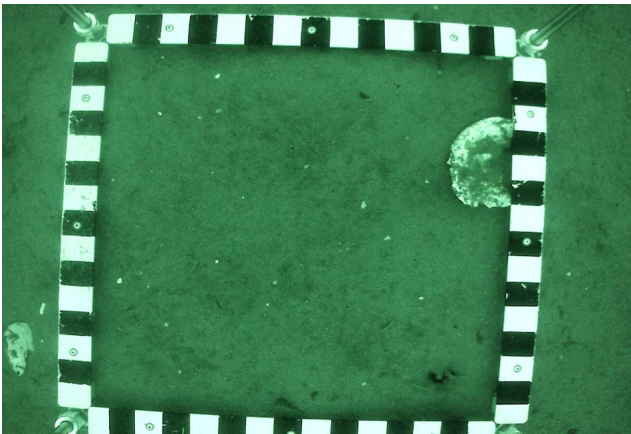
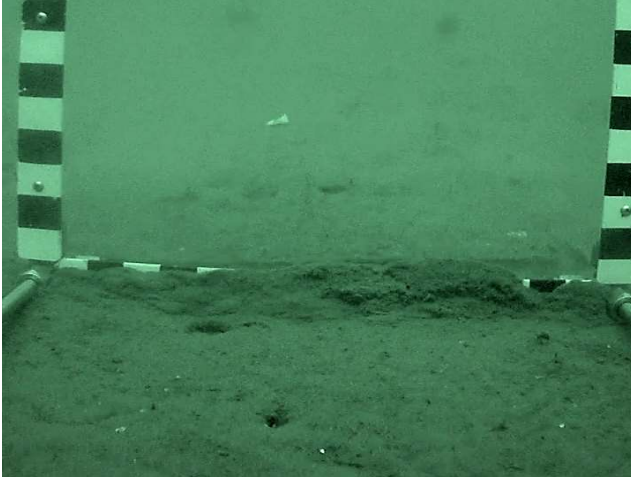
Statistics

Gravel %:	1.2
Pebble %:	1.1
Granule %:	0.1
Sand %:	95.0
Mud %:	3.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.96
Mean size (mm):	0.13
Sorting (phi):	0.458
Skewness (phi):	0.069
Kurtosis (phi):	1.135
D ₁₀ (phi):	2.48
D ₁₀ (mm):	0.18
D ₅₀ (phi):	2.94
D ₅₀ (mm):	0.13
LOI % (450°C):	N/A

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	1.09
-2	0.00
-1.5	0.00
-1	0.12
-0.5	0.12
0	0.11
0.5	0.11
1	0.24
1.5	0.54
2	0.07
2.5	6.85
3	45.88
3.5	36.67
4	4.41
>4	3.79
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T02



Sample 1

Station Information

Latitude, Longitude:	42.971764	-70.653901
Water Depth (m):	40.5	
Sample Weight (g):	90.0	
Date Collected, Analyzed:	8/8/2017	2/21/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Very Fine Sand
Mean Size:	Very Fine Sand

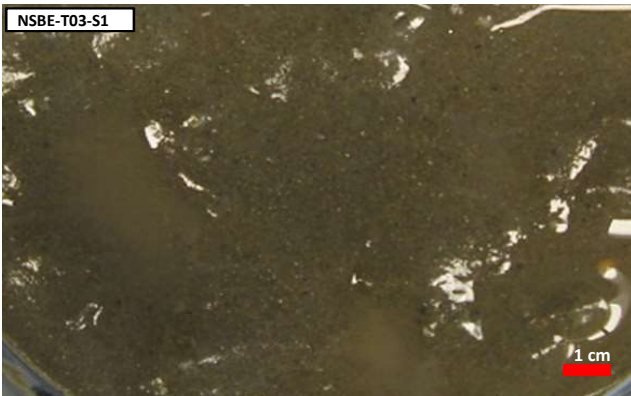
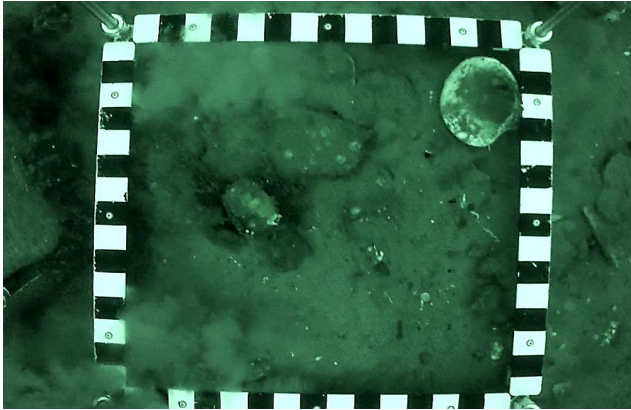
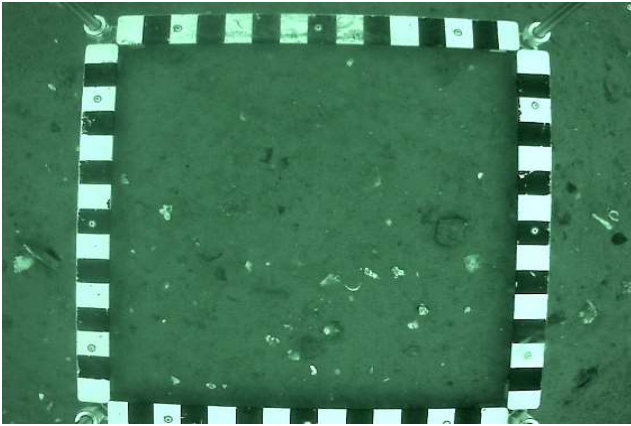
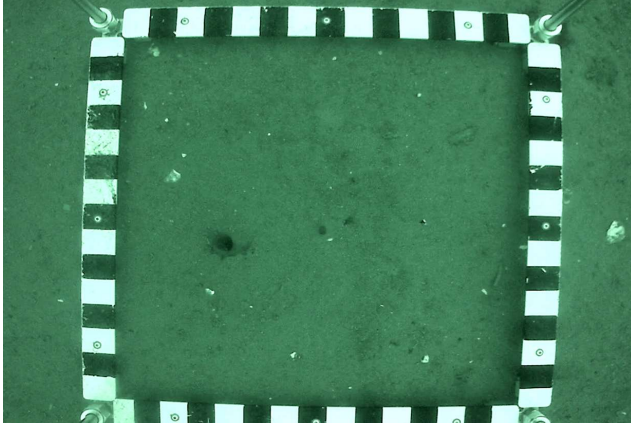
Statistics

Gravel %:	3.1
Pebble %:	2.8
Granule %:	0.3
Sand %:	89.6
Mud %:	7.3
Silt %:	4.0
Clay %:	3.2
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.05
Mean size (mm):	0.12
Sorting (phi):	0.717
Skewness (phi):	-0.002
Kurtosis (phi):	2.116
D ₁₀ (phi):	2.48
D ₁₀ (mm):	0.18
D ₅₀ (phi):	3.10
D ₅₀ (mm):	0.12
LOI % (450°C):	1.0

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	2.44
-2	0.36
-1.5	0.10
-1	0.23
-0.5	0.17
0	0.12
0.5	0.14
1	0.24
1.5	0.47
2	1.39
2.5	4.22
3	30.29
3.5	44.56
4	8.00
>4	N/A
5	2.25
6	0.68
7	0.57
8	0.53
9	0.42
10	0.68
Smaller than 10	2.14

NSBE-T03



Sample 1

Station Information

Latitude, Longitude:	42.976383	-70.643870
Water Depth (m):	35.7	
Sample Weight (g):	103.4	
Date Collected, Analyzed:	8/7/2017	3/22/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Very Fine Sand
Mean Size:	Very Fine Sand

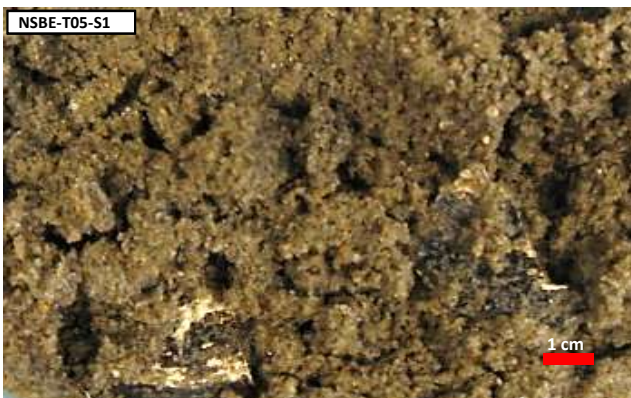
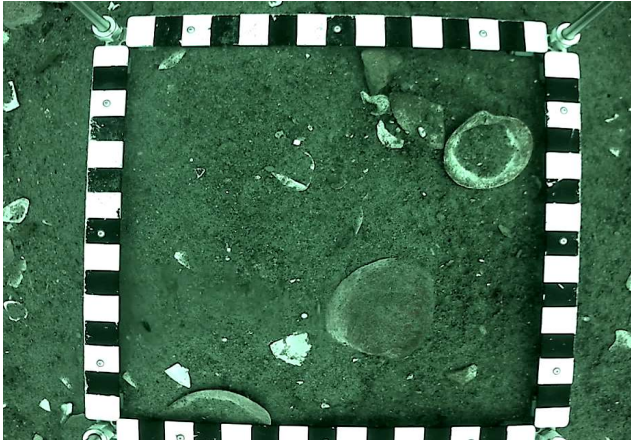
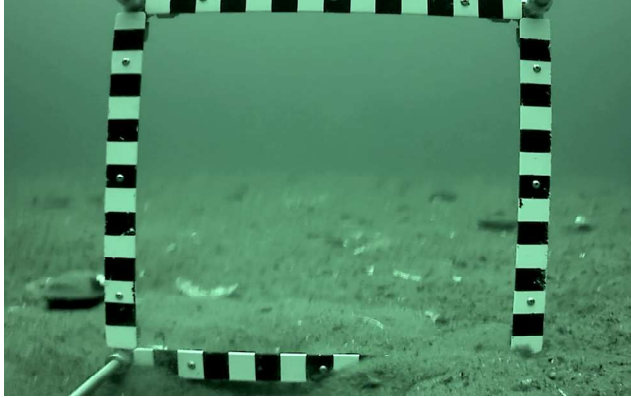
Statistics

Gravel %:	0.5
Pebble %:	0.4
Granule %:	0.1
Sand %:	95.7
Mud %:	3.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.02
Mean size (mm):	0.12
Sorting (phi):	0.483
Skewness (phi):	-0.092
Kurtosis (phi):	1.194
D ₁₀ (phi):	2.49
D ₁₀ (mm):	0.18
D ₅₀ (phi):	3.05
D ₅₀ (mm):	0.12
LOI % (450°C):	0.7

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.42
-1.5	0.07
-1	0.05
-0.5	0.17
0	0.12
0.5	0.17
1	0.37
1.5	0.74
2	1.71
2.5	5.13
3	36.13
3.5	43.90
4	7.23
>4	3.78
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T05



Sample 1

Station Information

Latitude, Longitude:	42.986699	-70.645589
Water Depth (m):	24.4	
Sample Weight (g):	169.4	
Date Collected, Analyzed:	8/7/2017	3/22/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Medium Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Medium Sand
Mean Size:	Medium Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Medium Sand
Mean Size:	Medium Sand

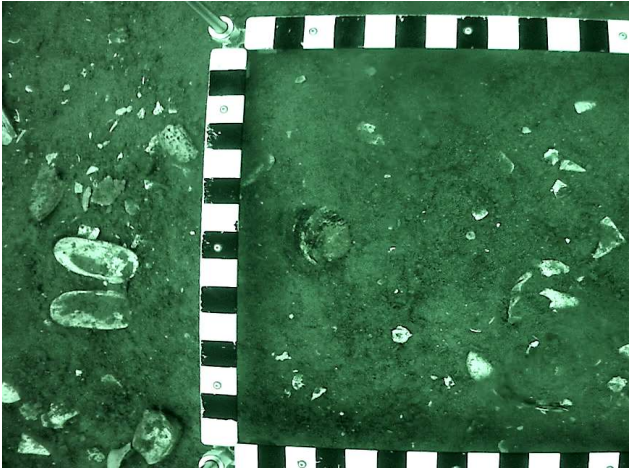
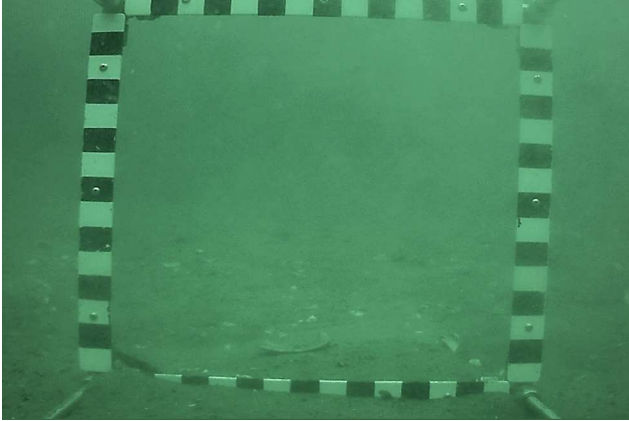
Statistics

Gravel %:	1.2
Pebble %:	0.4
Granule %:	0.8
Sand %:	98.5
Mud %:	0.2
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	1.25
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.18
Mean size (mm):	0.44
Sorting (phi):	0.588
Skewness (phi):	-0.150
Kurtosis (phi):	0.968
D ₁₀ (phi):	0.35
D ₁₀ (mm):	0.78
D ₅₀ (phi):	1.21
D ₅₀ (mm):	0.43
LOI % (450°C):	0.3

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.41
-1.5	0.29
-1	0.52
-0.5	0.90
0	2.43
0.5	7.64
1	23.06
1.5	34.39
2	27.52
2.5	2.38
3	0.17
3.5	0.03
4	0.01
>4	0.25
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T06A



Sample 1

Station Information

Latitude, Longitude:	42.980573	-70.655550
Water Depth (m):	27.1	
Sample Weight (g):	160.5	
Date Collected, Analyzed:	8/7/2017	3/22/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Medium Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Moderately Well Sorted Medium Sand
Mean Size:	Medium Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Medium Sand
Mean Size:	Medium Sand

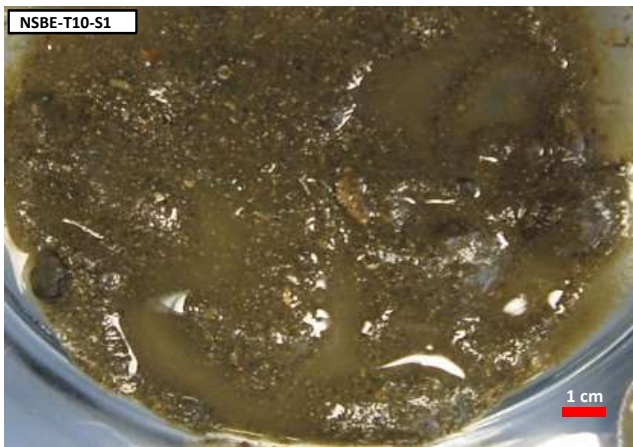
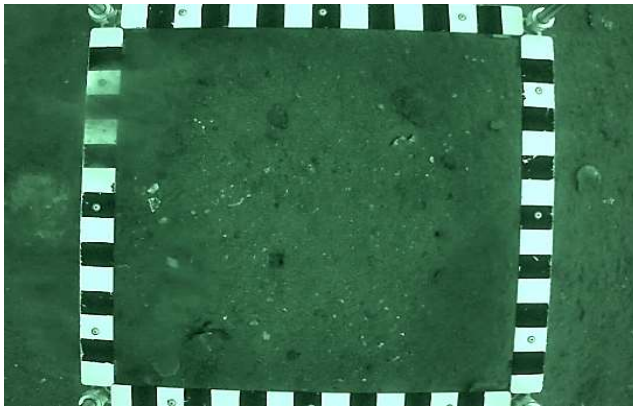
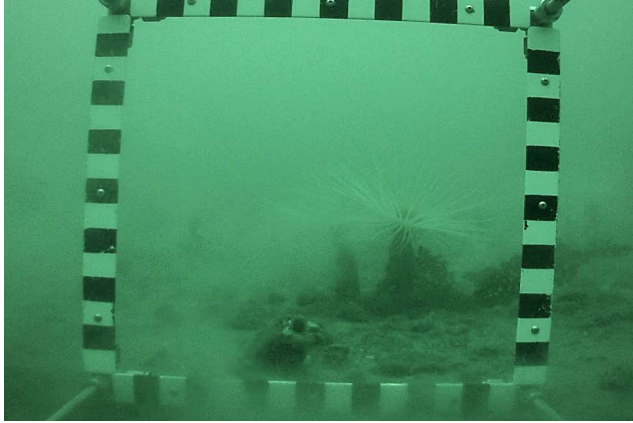
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	99.6
Mud %:	0.4
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	1.75
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.65
Mean size (mm):	0.32
Sorting (phi):	0.563
Skewness (phi):	-0.165
Kurtosis (phi):	1.184
D ₁₀ (phi):	0.83
D ₁₀ (mm):	0.56
D ₅₀ (phi):	1.70
D ₅₀ (mm):	0.31
LOI % (450°C):	0.4

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.09
0	0.43
0.5	2.98
1	9.80
1.5	17.91
2	45.83
2.5	18.40
3	3.76
3.5	0.31
4	0.05
>4	0.44
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T10



Sample 1

Station Information

Latitude, Longitude:	42.976370	-70.678328
Water Depth (m):	37.5	
Sample Weight (g):	52.7	
Date Collected, Analyzed:	8/7/2017	3/22/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Medium Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Medium Sand

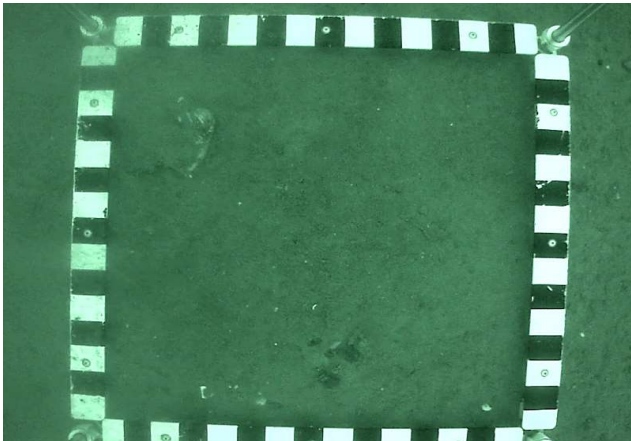
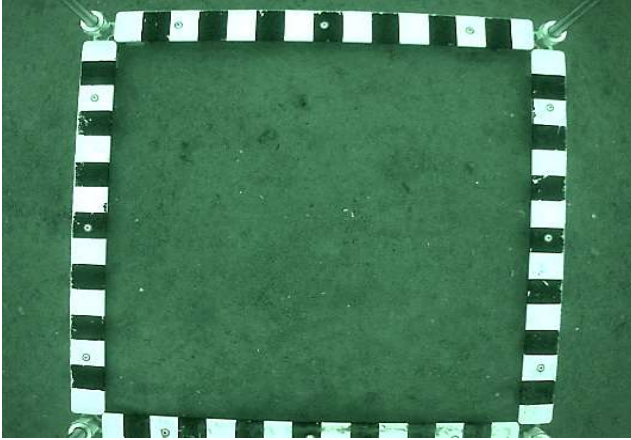
Statistics

Gravel %:	3.8
Pebble %:	2.8
Granule %:	0.9
Sand %:	92.4
Mud %:	3.9
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.88
Mean size (mm):	0.27
Sorting (phi):	1.085
Skewness (phi):	-0.260
Kurtosis (phi):	1.071
D ₁₀ (phi):	0.46
D ₁₀ (mm):	0.73
D ₅₀ (phi):	2.06
D ₅₀ (mm):	0.24
LOI % (450°C):	0.8

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	2.51
-2	0.31
-1.5	0.64
-1	0.28
-0.5	0.69
0	1.51
0.5	4.34
1	10.67
1.5	12.46
2	13.49
2.5	23.11
3	20.96
3.5	4.18
4	0.98
>4	3.85
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T12



Sample 1

Station Information

Latitude, Longitude:	42.984786	-70.685358
Water Depth (m):	32.3	
Sample Weight (g):	193.8	
Date Collected, Analyzed:	8/8/2017	4/18/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

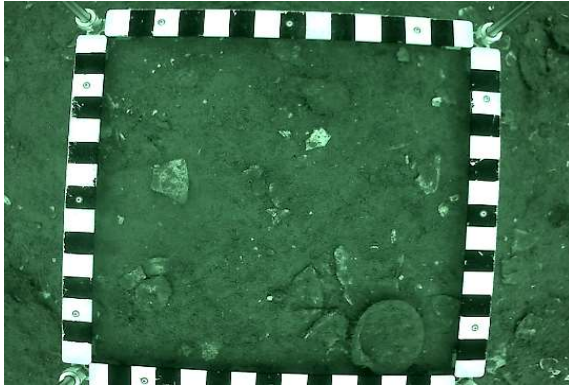
Statistics

Gravel %:	3.9
Pebble %:	3.2
Granule %:	0.7
Sand %:	90.2
Mud %:	5.9
Silt %:	3.1
Clay %:	2.8
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.68
Mean size (mm):	0.16
Sorting (phi):	0.934
Skewness (phi):	-0.104
Kurtosis (phi):	3.214
D ₁₀ (phi):	1.69
D ₁₀ (mm):	0.31
D ₅₀ (phi):	2.71
D ₅₀ (mm):	0.15
LOI % (450°C):	0.8

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.56
-2.5	1.07
-2	0.55
-1.5	0.34
-1	0.37
-0.5	0.35
0	0.45
0.5	0.55
1	0.98
1.5	2.07
2	4.46
2.5	13.86
3	51.15
3.5	13.34
4	3.01
>4	N/A
5	1.47
6	0.71
7	0.51
8	0.43
9	0.36
10	0.50
Smaller than 10	1.93

NSBE-T13



Station Information

Latitude, Longitude:	42.987658	-70.660873
Water Depth (m):	30.5	
Sample Weight (g):	141.8	
Date Collected, Analyzed:	8/8/2017	3/29/2018

Sample 1

Latitude, Longitude:	42.987658	-70.660873
Water Depth (m):	30.5	
Sample Weight (g):	141.8	
Date Collected, Analyzed:	8/8/2017	3/29/2018

Sample 2

Latitude, Longitude:	42.987847	-70.660993
Water Depth (m):	30.5	
Sample Weight (g):	157.1	
Date Collected, Analyzed:	8/8/2017	2/21/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

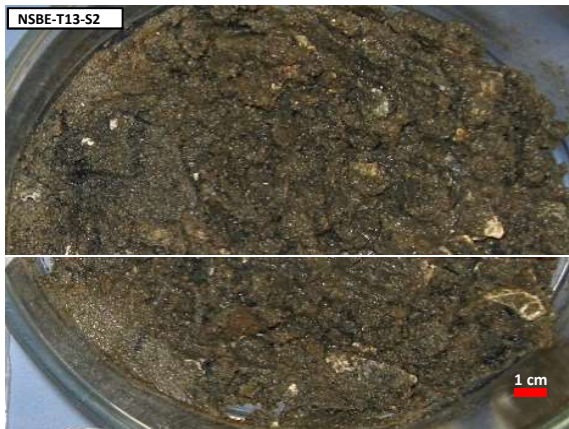
Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	2.0
Pebble %:	1.3
Granule %:	0.8
Sand %:	95.9
Mud %:	2.1
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.14
Mean size (mm):	0.23
Sorting (phi):	0.688
Skewness (phi):	-0.246
Kurtosis (phi):	1.528
D ₁₀ (phi):	1.12
D ₁₀ (mm):	0.46
D ₅₀ (phi):	2.18
D ₅₀ (mm):	0.22
LOI % (450°C):	0.9

Gravel %:	2.0
Pebble %:	1.3
Granule %:	0.8
Sand %:	95.9
Mud %:	2.1
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.14
Mean size (mm):	0.23
Sorting (phi):	0.688
Skewness (phi):	-0.246
Kurtosis (phi):	1.528
D ₁₀ (phi):	1.12
D ₁₀ (mm):	0.46
D ₅₀ (phi):	2.18
D ₅₀ (mm):	0.22
LOI % (450°C):	0.9

Gravel %:	1.0
Pebble %:	0.7
Granule %:	0.3
Sand %:	95.6
Mud %:	3.4
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.17
Mean size (mm):	0.22
Sorting (phi):	0.756
Skewness (phi):	-0.173
Kurtosis (phi):	1.567
D ₁₀ (phi):	1.10
D ₁₀ (mm):	0.47
D ₅₀ (phi):	2.21
D ₅₀ (mm):	0.22
LOI % (450°C):	1.0



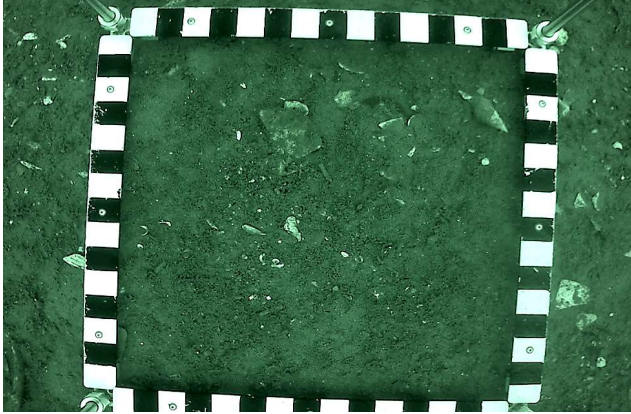
Size Distribution (phi)

-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.09
-2.5	0.17
-2	0.00
-1.5	0.19
-1	0.57
-0.5	0.53
0	1.05
0.5	1.82
1	3.12
1.5	5.92
2	19.46
2.5	41.52
3	19.76
3.5	2.42
4	0.31
>4	2.07
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.09
-2.5	0.17
-2	0.00
-1.5	0.19
-1	0.57
-0.5	0.53
0	1.05
0.5	1.82
1	3.12
1.5	5.92
2	18.22
2.5	39.07
3	21.07
3.5	2.94
4	0.48
>4	3.44
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.57
-2.5	0.00
-2	0.08
-1.5	0.10
-1	0.24
-0.5	0.91
0	1.62
0.5	2.04
1	3.28
1.5	5.94
2	18.22
2.5	39.07
3	21.07
3.5	2.94
4	0.48
>4	3.44
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T14



Sample 1

Station Information

Latitude, Longitude:	42.990282	-70.668139
Water Depth (m):	26.8	
Sample Weight (g):	208.8	
Date Collected, Analyzed:	8/8/2017	3/29/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Medium Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Medium Sand

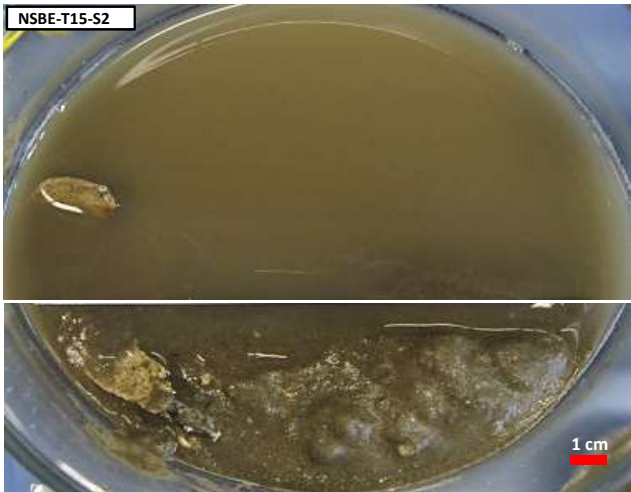
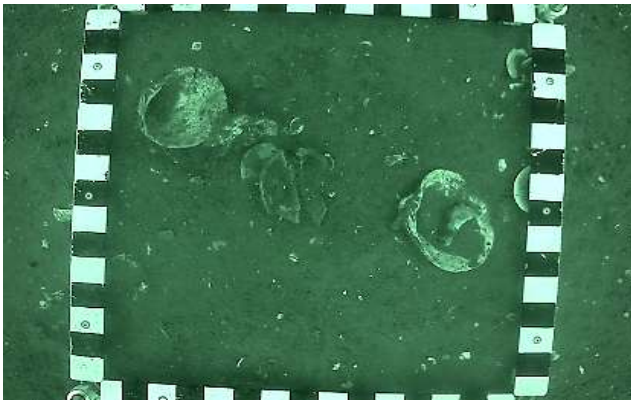
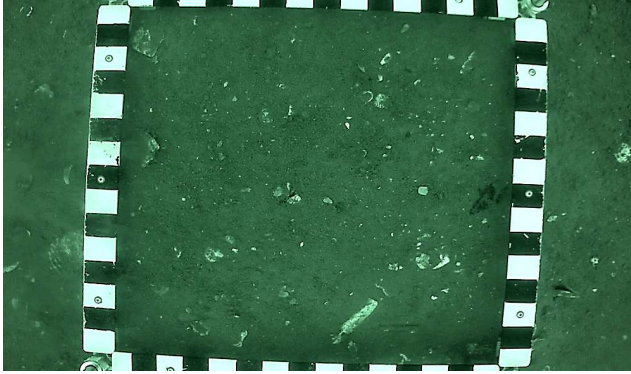
Statistics

Gravel %:	4.4
Pebble %:	1.4
Granule %:	2.9
Sand %:	94.5
Mud %:	1.1
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.79
Mean size (mm):	0.29
Sorting (phi):	1.058
Skewness (phi):	-0.361
Kurtosis (phi):	1.312
D ₁₀ (phi):	0.13
D ₁₀ (mm):	0.91
D ₅₀ (phi):	1.96
D ₅₀ (mm):	0.26
LOI % (450°C):	0.5

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.54
-2.5	0.43
-2	0.45
-1.5	1.21
-1	1.74
-0.5	2.22
0	2.52
0.5	3.30
1	6.94
1.5	11.94
2	20.53
2.5	25.48
3	18.46
3.5	2.80
4	0.30
>4	1.14
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T15



Sample 2

Station Information

Latitude, Longitude:	42.991793	-70.674793
Water Depth (m):	29.9	
Sample Weight (g):	140.4	
Date Collected, Analyzed:	8/8/2017	3/29/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

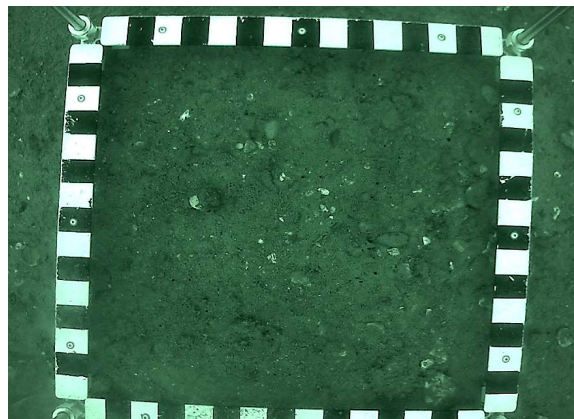
Statistics

Gravel %:	1.6
Pebble %:	1.6
Granule %:	0.0
Sand %:	95.7
Mud %:	2.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.31
Mean size (mm):	0.20
Sorting (phi):	0.616
Skewness (phi):	-0.070
Kurtosis (phi):	1.167
D ₁₀ (phi):	1.54
D ₁₀ (mm):	0.34
D ₅₀ (phi):	2.33
D ₅₀ (mm):	0.20
LOI % (450°C):	0.8

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.55
-2.5	0.00
-2	0.00
-1.5	0.03
-1	0.02
-0.5	0.07
0	0.09
0.5	0.18
1	1.09
1.5	5.38
2	17.65
2.5	34.17
3	31.18
3.5	5.24
4	0.66
>4	2.70
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T20



Station Information

Latitude, Longitude:	42.987371	-70.694519
Water Depth (m):	25.3	
Sample Weight (g):	358.1	
Date Collected, Analyzed:	8/8/2017	4/18/2018

Sample 1

Latitude, Longitude:	42.987267	-70.694491
Water Depth (m):	25.3	
Sample Weight (g):	251.8	
Date Collected, Analyzed:	8/8/2017	8/17/2018

Sample 2

Latitude, Longitude:	42.987267	-70.694491
Water Depth (m):	25.3	
Sample Weight (g):	251.8	
Date Collected, Analyzed:	8/8/2017	8/17/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Fine Gravel
Mean Size:	Coarse Sand
Sorting:	Very Poorly Sorted

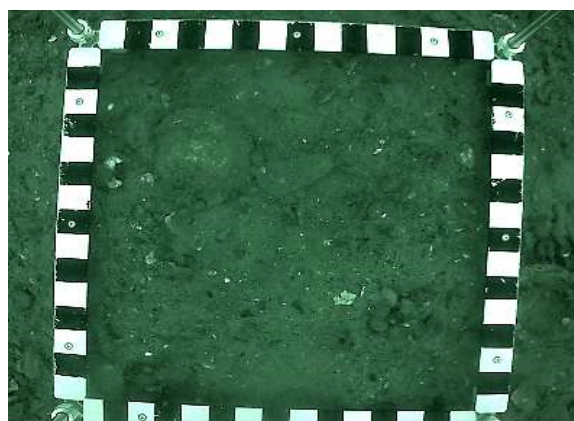
Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Fine Gravel
Mean Size:	Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Coarse Sand



Statistics

Gravel %:	51.9
Pebble %:	48.9
Granule %:	3.0
Sand %:	46.7
Mud %:	1.4
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.24
Mode 2 (phi):	2.24
Mode 3 (phi):	N/A
Mean size (phi):	-0.86
Mean size (mm):	1.81
Sorting (phi):	2.449
Skewness (phi):	0.386
Kurtosis (phi):	0.513
D ₁₀ (phi):	-3.46
D ₁₀ (mm):	11.00
D ₅₀ (phi):	-1.64
D ₅₀ (mm):	3.12
LOI % (450°C):	0.5

Gravel %:	31.2
Pebble %:	27.8
Granule %:	3.3
Sand %:	66.7
Mud %:	2.2
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	0.53
Mean size (mm):	0.69
Sorting (phi):	2.358
Skewness (phi):	-0.663
Kurtosis (phi):	0.563
D ₁₀ (phi):	-3.17
D ₁₀ (mm):	9.03
D ₅₀ (phi):	1.83
D ₅₀ (mm):	0.28
LOI % (450°C):	0.6

Gravel %:	31.2
Pebble %:	27.8
Granule %:	3.3
Sand %:	66.7
Mud %:	2.2
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	0.53
Mean size (mm):	0.69
Sorting (phi):	2.358
Skewness (phi):	-0.663
Kurtosis (phi):	0.563
D ₁₀ (phi):	-3.17
D ₁₀ (mm):	9.03
D ₅₀ (phi):	1.83
D ₅₀ (mm):	0.28
LOI % (450°C):	0.6



Size Distribution (phi)

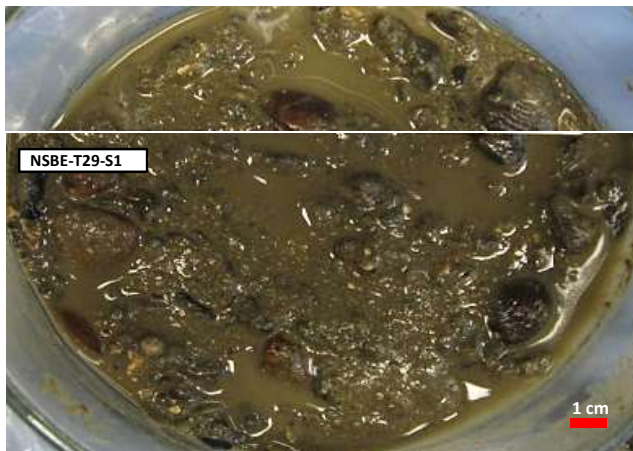
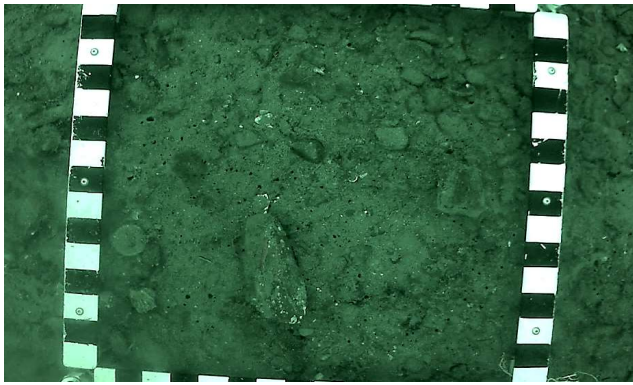
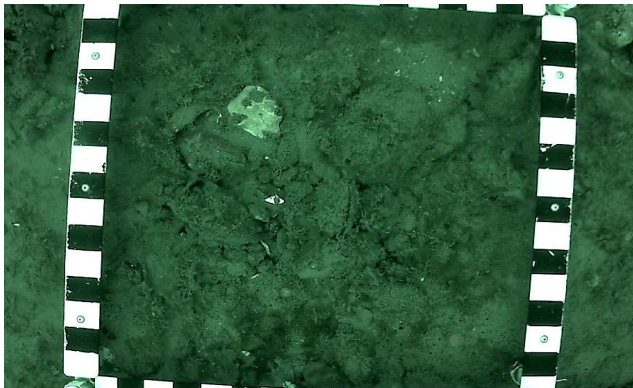
-5.5	0.00
-5	0.00
-4.5	0.00
-4	2.05
-3.5	6.62
-3	24.54
-2.5	10.88
-2	4.80
-1.5	1.59
-1	1.45
-0.5	1.63
0	1.58
0.5	1.85
1	2.32
1.5	2.37
2	6.60
2.5	18.14
3	10.42
3.5	1.52
4	0.28
>4	1.35
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	0.00
(%)	0.00
(%)	0.00
(%)	0.00
(%)	3.50
(%)	10.14
(%)	9.58
(%)	4.60
(%)	1.82
(%)	1.53
(%)	1.51
(%)	1.77
(%)	2.38
(%)	2.85
(%)	3.52
(%)	10.39
(%)	25.20
(%)	15.97
(%)	2.66
(%)	0.42
(%)	2.16
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A

(%)	0.00
(%)	0.00
(%)	0.00
(%)	0.00
(%)	3.50
(%)	10.14
(%)	9.58
(%)	4.60
(%)	1.82
(%)	1.53
(%)	1.51
(%)	1.77
(%)	2.38
(%)	2.85
(%)	3.52
(%)	10.39
(%)	25.20
(%)	15.97
(%)	2.66
(%)	0.42
(%)	2.16
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A



NSBE-T29



Sample 1

Station Information

Latitude, Longitude:	42.979621	-70.679554
Water Depth (m):	26.5	
Sample Weight (g):	318.5	
Date Collected, Analyzed:	8/15/2017	5/22/2017

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

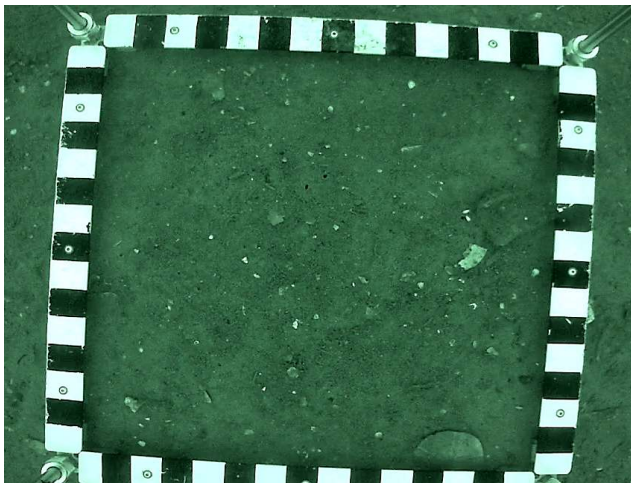
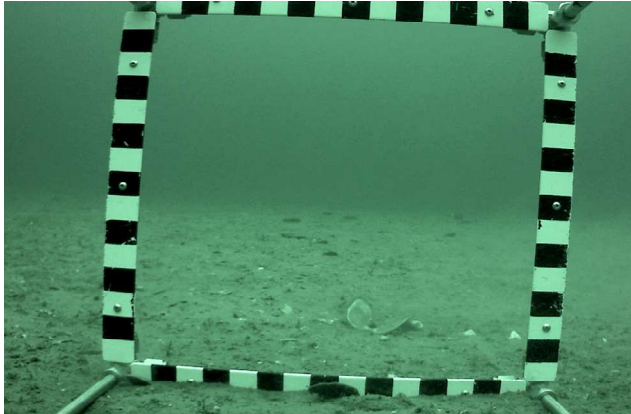
Statistics

Gravel %:	48.7
Pebble %:	39.4
Granule %:	9.4
Sand %:	48.5
Mud %:	2.7
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	1.25
Mode 3 (phi):	N/A
Mean size (phi):	-0.74
Mean size (mm):	1.67
Sorting (phi):	2.505
Skewness (phi):	0.089
Kurtosis (phi):	0.639
D ₁₀ (phi):	-3.75
D ₁₀ (mm):	13.49
D ₅₀ (phi):	-0.84
D ₅₀ (mm):	1.79
LOI % (450°C):	0.6

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	2.05
-3.5	16.63
-3	5.69
-2.5	8.24
-2	6.78
-1.5	4.90
-1	4.47
-0.5	4.04
0	3.76
0.5	4.30
1	6.15
1.5	7.42
2	6.70
2.5	6.91
3	6.49
3.5	2.14
4	0.61
>4	2.73
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T30



Sample 1

Station Information

Latitude, Longitude:	42.985811	-70.671644
Water Depth (m):	26.2	
Sample Weight (g):	154.7	
Date Collected, Analyzed:	8/15/2017	4/4/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

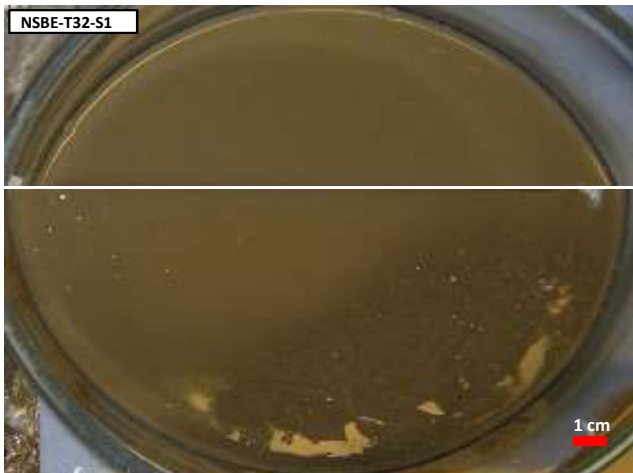
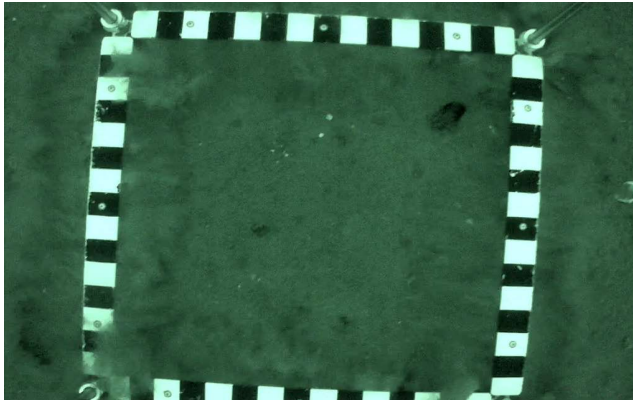
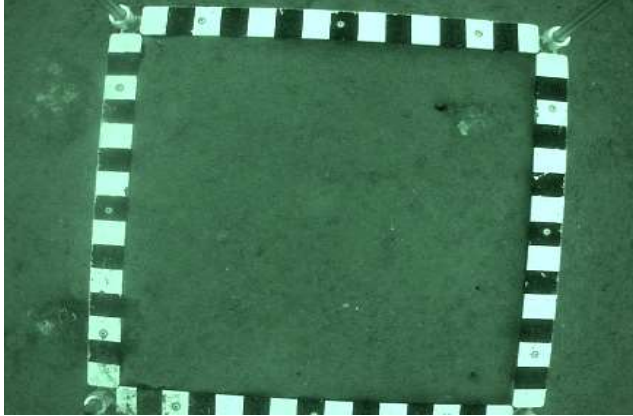
Statistics

Gravel %:	1.3
Pebble %:	0.2
Granule %:	1.1
Sand %:	96.5
Mud %:	2.2
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.25
Mean size (mm):	0.21
Sorting (phi):	0.779
Skewness (phi):	-0.215
Kurtosis (phi):	1.429
D ₁₀ (phi):	1.25
D ₁₀ (mm):	0.42
D ₅₀ (phi):	2.28
D ₅₀ (mm):	0.21
LOI % (450°C):	0.5

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.16
-1.5	0.29
-1	0.81
-0.5	1.23
0	1.74
0.5	1.55
1	1.97
1.5	4.52
2	19.29
2.5	30.67
3	29.49
3.5	5.34
4	0.70
>4	2.24
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T32



Sample 1

Station Information

Latitude, Longitude:	42.985106	-70.663309
Water Depth (m):	34.7	
Sample Weight (g):	112.7	
Date Collected, Analyzed:	8/15/2017	4/4/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

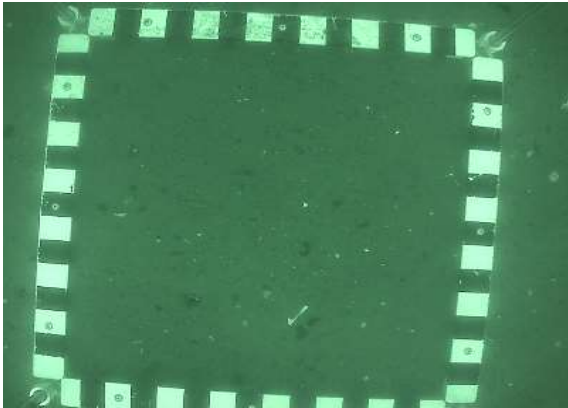
Statistics

Gravel %:	1.2
Pebble %:	0.8
Granule %:	0.4
Sand %:	90.0
Mud %:	8.8
Silt %:	4.3
Clay %:	4.5
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.78
Mean size (mm):	0.15
Sorting (phi):	1.177
Skewness (phi):	0.341
Kurtosis (phi):	3.950
D ₁₀ (phi):	2.06
D ₁₀ (mm):	0.24
D ₅₀ (phi):	2.76
D ₅₀ (mm):	0.15
LOI % (450°C):	0.9

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.63
-2.5	0.00
-2	0.17
-1.5	0.22
-1	0.17
-0.5	0.12
0	0.24
0.5	0.31
1	0.68
1.5	1.54
2	3.82
2.5	16.35
3	47.50
3.5	16.14
4	3.34
>4	N/A
5	1.79
6	1.00
7	0.38
8	1.15
9	0.75
10	0.69
Smaller than 10	3.01

NSBE-T36



Station Information

Latitude, Longitude:	42.995784	-70.710278
Water Depth (m):	25.6	
Sample Weight (g):	205.3	
Date Collected, Analyzed:	8/16/2017	4/4/2018

Sample 1

Latitude, Longitude:	42.995784	-70.710278
Water Depth (m):	25.6	
Sample Weight (g):	205.3	
Date Collected, Analyzed:	8/16/2017	4/4/2018

Sample 2

Latitude, Longitude:	42.995662	-70.710267
Water Depth (m):	25.6	
Sample Weight (g):	205.5	
Date Collected, Analyzed:	8/16/2017	8/17/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Muddy Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Muddy Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Gravelly Muddy Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Very Coarse Silty Fine Sand
Mean Size:	Fine Sand
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Gravelly Muddy Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Very Coarse Silty Fine Sand
Mean Size:	Fine Sand
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Fine Sand
Mean Size:	Medium Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebbly Very Coarse Silty Fine Sand
Mean Size:	Fine Sand

Sediment Name:	Pebbly Very Coarse Silty Fine Sand
Mean Size:	Fine Sand

Sediment Name:	Pebbly Fine Sand
Mean Size:	Medium Sand



Statistics

Gravel %:	11.8
Pebble %:	7.9
Granule %:	3.9
Sand %:	74.8
Mud %:	13.5
Silt %:	8.4
Clay %:	5.1
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.20
Mean size (mm):	0.22
Sorting (phi):	2.550
Skewness (phi):	-0.182
Kurtosis (phi):	2.611
D ₁₀ (phi):	-1.47
D ₁₀ (mm):	2.76
D ₅₀ (phi):	2.63
D ₅₀ (mm):	0.16
LOI % (450°C):	1.4

Gravel %:	11.8
Pebble %:	7.9
Granule %:	3.9
Sand %:	74.8
Mud %:	13.5
Silt %:	8.4
Clay %:	5.1
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.20
Mean size (mm):	0.22
Sorting (phi):	2.550
Skewness (phi):	-0.182
Kurtosis (phi):	2.611
D ₁₀ (phi):	-1.47
D ₁₀ (mm):	2.76
D ₅₀ (phi):	2.63
D ₅₀ (mm):	0.16
LOI % (450°C):	1.4

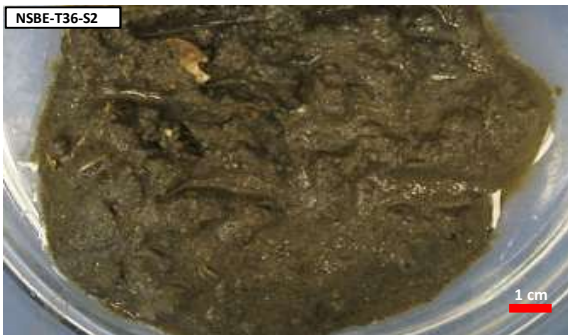
Gravel %:	18.4
Pebble %:	13.1
Granule %:	5.3
Sand %:	77.9
Mud %:	3.7
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	1.20
Mean size (mm):	0.44
Sorting (phi):	2.178
Skewness (phi):	-0.532
Kurtosis (phi):	1.109
D ₁₀ (phi):	-2.56
D ₁₀ (mm):	5.89
D ₅₀ (phi):	2.01
D ₅₀ (mm):	0.25
LOI % (450°C):	0.8

Size Distribution (phi)

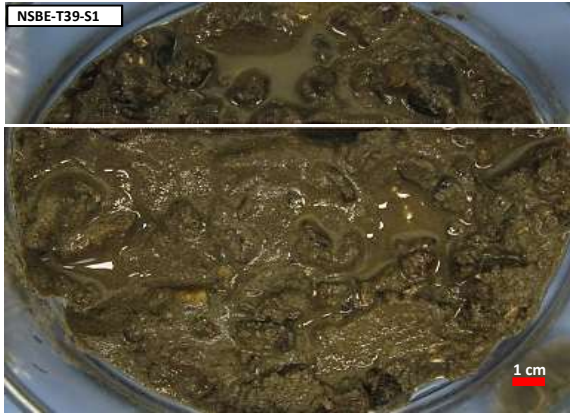
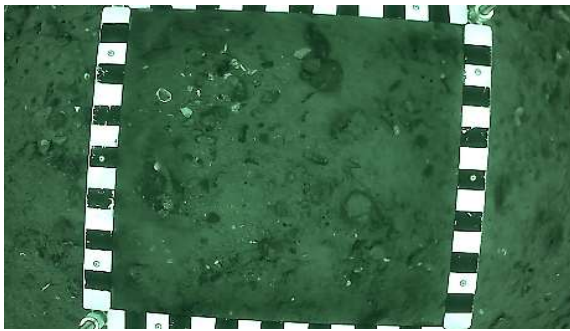
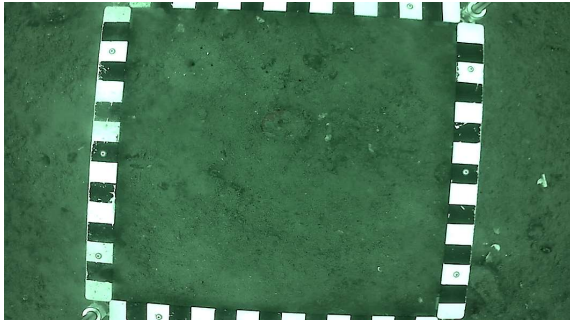
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	1.72
-3	2.49
-2.5	2.24
-2	1.42
-1.5	2.09
-1	1.79
-0.5	1.87
0	1.63
0.5	2.03
1	2.92
1.5	3.66
2	6.36
2.5	12.87
3	23.07
3.5	14.22
4	6.14
>4	N/A
5	3.36
6	2.40
7	1.64
8	1.01
9	0.84
10	2.63
Smaller than 10	1.60

(%)	
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	3.50
-3	4.89
-2.5	1.88
-2	2.81
-1.5	2.62
-1	2.69
-0.5	2.81
0	2.64
0.5	3.24
1	4.77
1.5	7.05
2	10.93
2.5	12.95
3	20.95
3.5	10.24
4	2.36
>4	3.69
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	3.50
-3	4.89
-2.5	1.88
-2	2.81
-1.5	2.62
-1	2.69
-0.5	2.81
0	2.64
0.5	3.24
1	4.77
1.5	7.05
2	10.93
2.5	12.95
3	20.95
3.5	10.24
4	2.36
>4	3.69
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A



NSBE-T39



Station Information

Latitude, Longitude:	43.005076	-70.694332
Water Depth (m):	23.5	
Sample Weight (g):	362.2	
Date Collected, Analyzed:	8/16/2017	4/4/2018

Sample 1

Latitude, Longitude:	43.005076	-70.694332
Water Depth (m):	23.5	
Sample Weight (g):	362.2	
Date Collected, Analyzed:	8/16/2017	4/4/2018

Sample 2

Latitude, Longitude:	43.004815	-70.694574
Water Depth (m):	23.8	
Sample Weight (g):	312.0	
Date Collected, Analyzed:	8/16/2017	8/17/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Coarse Sand

Statistics

Gravel %:	50.9
Pebble %:	49.3
Granule %:	1.6
Sand %:	47.3
Mud %:	1.8
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.24
Mode 2 (phi):	2.24
Mode 3 (phi):	N/A
Mean size (phi):	-0.96
Mean size (mm):	1.95
Sorting (phi):	2.607
Skewness (phi):	0.295
Kurtosis (phi):	0.527
D ₁₀ (phi):	-3.90
D ₁₀ (mm):	14.91
D ₅₀ (phi):	-1.59
D ₅₀ (mm):	3.00
LOI % (450°C):	0.5

Gravel %:	41.5
Pebble %:	40.8
Granule %:	0.6
Sand %:	55.6
Mud %:	3.0
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.24
Mode 2 (phi):	2.24
Mode 3 (phi):	N/A
Mean size (phi):	0.20
Mean size (mm):	0.87
Sorting (phi):	2.651
Skewness (phi):	-0.545
Kurtosis (phi):	0.526
D ₁₀ (phi):	-3.75
D ₁₀ (mm):	13.44
D ₅₀ (phi):	1.45
D ₅₀ (mm):	0.37
LOI % (450°C):	0.6

Gravel %:	41.5
Pebble %:	40.8
Granule %:	0.6
Sand %:	55.6
Mud %:	3.0
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.24
Mode 2 (phi):	2.24
Mode 3 (phi):	N/A
Mean size (phi):	0.20
Mean size (mm):	0.87
Sorting (phi):	2.651
Skewness (phi):	-0.545
Kurtosis (phi):	0.526
D ₁₀ (phi):	-3.75
D ₁₀ (mm):	13.44
D ₅₀ (phi):	1.45
D ₅₀ (mm):	0.37
LOI % (450°C):	0.6

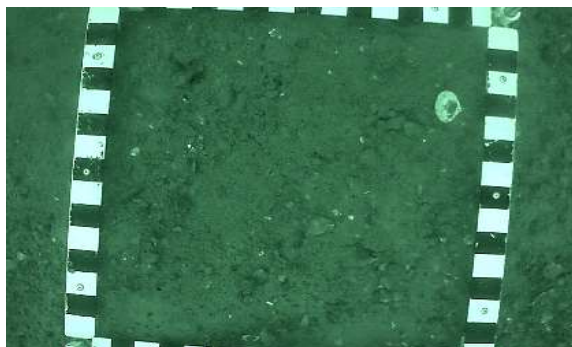
Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	6.69
-3.5	16.69
-3	17.31
-2.5	7.21
-2	1.40
-1.5	0.87
-1	0.69
-0.5	0.90
0	0.88
0.5	1.13
1	2.35
1.5	5.35
2	11.17
2.5	13.08
3	9.72
3.5	2.20
4	0.56
>4	1.81
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	6.69
-3.5	16.69
-3	17.31
-2.5	7.21
-2	1.40
-1.5	0.87
-1	0.69
-0.5	0.90
0	0.88
0.5	1.13
1	2.35
1.5	5.35
2	11.17
2.5	13.08
3	9.72
3.5	2.20
4	0.56
>4	1.81
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	2.56
-3.5	15.19
-3	16.58
-2.5	5.61
-2	0.91
-1.5	0.29
-1	0.33
-0.5	0.57
0	0.56
0.5	0.82
1	1.81
1.5	5.23
2	13.14
2.5	14.97
3	14.02
3.5	3.68
4	0.75
>4	3.00
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T40



Station Information

Latitude, Longitude:	42.973863	-70.698420
Water Depth (m):	32.9	
Sample Weight (g):	809.3	
Date Collected, Analyzed:	8/16/2017	4/11/2018

Sample 1

Latitude, Longitude:	42.973863	-70.698420
Water Depth (m):	32.9	
Sample Weight (g):	809.3	
Date Collected, Analyzed:	8/16/2017	4/11/2018

Sample 2

Latitude, Longitude:	42.973978	-70.698061
Water Depth (m):	32.9	
Sample Weight (g):	462.5	
Date Collected, Analyzed:	8/16/2017	5/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Muddy Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Very Coarse Gravel
Mean Size:	Medium Gravel
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Very Coarse Gravel
Mean Size:	Medium Gravel
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Muddy Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Muddy Sandy Very Coarse Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

Sediment Name:	Muddy Sandy Pebble Gravel
Mean Size:	Granule Gravel

Statistics

Gravel %:	82.3
Pebble %:	77.9
Granule %:	4.3
Sand %:	16.1
Mud %:	1.6
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-5.74
Mode 2 (phi):	-3.74
Mode 3 (phi):	N/A
Mean size (phi):	-3.66
Mean size (mm):	12.68
Sorting (phi):	2.565
Skewness (phi):	0.682
Kurtosis (phi):	1.119
D ₁₀ (phi):	-5.81
D ₁₀ (mm):	55.99
D ₅₀ (phi):	-4.76
D ₅₀ (mm):	27.08
LOI % (450°C):	0.8

Gravel %:	82.3
Pebble %:	77.9
Granule %:	4.3
Sand %:	16.1
Mud %:	1.6
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-5.74
Mode 2 (phi):	-3.74
Mode 3 (phi):	N/A
Mean size (phi):	-3.66
Mean size (mm):	12.68
Sorting (phi):	2.565
Skewness (phi):	0.682
Kurtosis (phi):	1.119
D ₁₀ (phi):	-5.81
D ₁₀ (mm):	55.99
D ₅₀ (phi):	-4.76
D ₅₀ (mm):	27.08
LOI % (450°C):	0.8

Gravel %:	55.8
Pebble %:	50.1
Granule %:	5.7
Sand %:	39.6
Mud %:	4.6
Silt %:	2.3
Clay %:	2.3
Modes:	Polymodal
Mode 1 (phi):	-5.24
Mode 2 (phi):	-3.74
Mode 3 (phi):	0.75
Mean size (phi):	-1.64
Mean size (mm):	3.12
Sorting (phi):	3.194
Skewness (phi):	0.209
Kurtosis (phi):	0.692
D ₁₀ (phi):	-5.24
D ₁₀ (mm):	37.87
D ₅₀ (phi):	-2.02
D ₅₀ (mm):	4.06
LOI % (450°C):	0.9



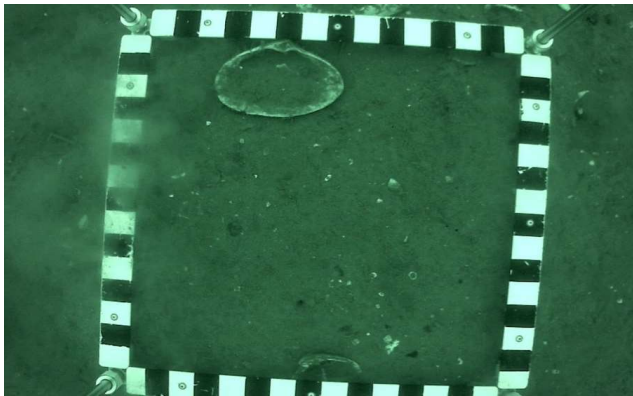
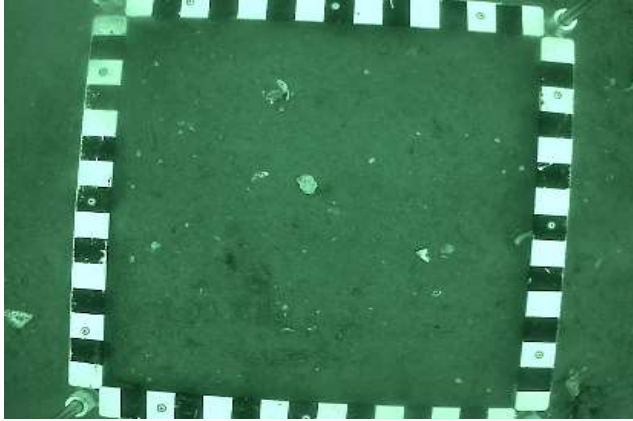
Size Distribution (phi)

-5.5	28.45
-5	18.31
-4.5	7.28
-4	1.04
-3.5	8.99
-3	6.87
-2.5	4.01
-2	2.98
-1.5	2.48
-1	1.87
-0.5	1.89
0	1.47
0.5	1.51
1	1.91
1.5	1.79
2	1.96
2.5	2.09
3	2.54
3.5	0.74
4	0.22
>4	1.63
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	28.45
(%)	18.31
(%)	7.28
(%)	1.04
(%)	8.99
(%)	6.87
(%)	4.01
(%)	2.98
(%)	2.48
(%)	1.87
(%)	1.89
(%)	1.47
(%)	1.51
(%)	1.91
(%)	1.79
(%)	1.96
(%)	2.09
(%)	2.54
(%)	0.74
(%)	0.22
(%)	1.63
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A
(%)	N/A

(%)	0.00
(%)	20.66
(%)	0.00
(%)	7.49
(%)	8.49
(%)	6.43
(%)	4.08
(%)	2.98
(%)	2.94
(%)	2.75
(%)	3.33
(%)	3.56
(%)	4.83
(%)	5.78
(%)	4.98
(%)	4.14
(%)	4.02
(%)	5.85
(%)	2.35
(%)	0.78
(%)	N/A
(%)	0.79
(%)	0.57
(%)	0.46
(%)	0.46
(%)	0.40
(%)	0.35
(%)	1.55

NSBE-T42



Sample 1

Station Information

Latitude, Longitude:	42.971760	-70.670194
Water Depth (m):	37.2	
Sample Weight (g):	130.0	
Date Collected, Analyzed:	8/16/2017	4/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

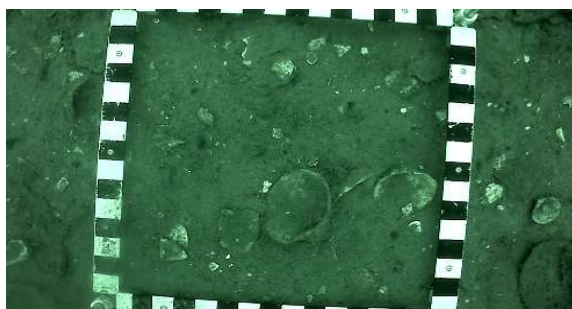
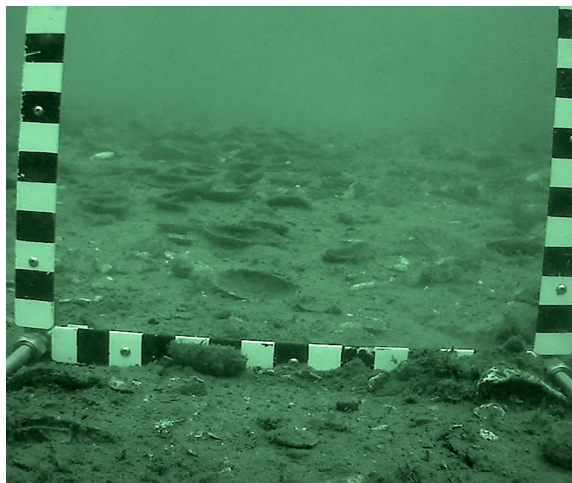
Statistics

Gravel %:	1.6
Pebble %:	1.6
Granule %:	0.0
Sand %:	94.8
Mud %:	3.6
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.45
Mean size (mm):	0.18
Sorting (phi):	0.498
Skewness (phi):	0.066
Kurtosis (phi):	1.170
D ₁₀ (phi):	1.80
D ₁₀ (mm):	0.29
D ₅₀ (phi):	2.43
D ₅₀ (mm):	0.19
LOI % (450°C):	0.7

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.30
-2.5	0.30
-2	0.00
-1.5	0.00
-1	0.04
-0.5	0.07
0	0.12
0.5	0.15
1	0.41
1.5	1.39
2	10.43
2.5	39.87
3	36.88
3.5	4.90
4	0.56
>4	3.59
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T61



Station Information

Latitude, Longitude:	42.992317	-70.659907
Water Depth (m):	30.2	
Sample Weight (g):	213.6	
Date Collected, Analyzed:	8/16/2017	4/11/2018

Sample 1

Latitude, Longitude:	42.992317	-70.659907
Water Depth (m):	30.2	
Sample Weight (g):	213.6	
Date Collected, Analyzed:	8/16/2017	4/11/2018

Sample 2

Latitude, Longitude:	42.992124	-70.660016
Water Depth (m):	30.2	
Sample Weight (g):	183.3	
Date Collected, Analyzed:	8/16/2017	8/17/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Coarse Sand
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Coarse Sand
Sorting:	Very Poorly Sorted

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Fine Sand
Mean Size:	Medium Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Coarse Sand

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Coarse Sand

Sediment Name:	Pebbly Fine Sand
Mean Size:	Medium Sand

Statistics

Gravel %:	30.9
Pebble %:	26.9
Granule %:	4.0
Sand %:	66.2
Mud %:	2.9
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	0.30
Mean size (mm):	0.81
Sorting (phi):	2.305
Skewness (phi):	-0.563
Kurtosis (phi):	0.575
D ₁₀ (phi):	-3.18
D ₁₀ (mm):	9.07
D ₅₀ (phi):	1.41
D ₅₀ (mm):	0.38
LOI % (450°C):	0.8

Gravel %:	30.9
Pebble %:	26.9
Granule %:	4.0
Sand %:	66.2
Mud %:	2.9
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	0.30
Mean size (mm):	0.81
Sorting (phi):	2.305
Skewness (phi):	-0.563
Kurtosis (phi):	0.575
D ₁₀ (phi):	-3.18
D ₁₀ (mm):	9.07
D ₅₀ (phi):	1.41
D ₅₀ (mm):	0.38
LOI % (450°C):	0.8

Gravel %:	12.2
Pebble %:	10.5
Granule %:	1.6
Sand %:	85.4
Mud %:	2.4
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.58
Mean size (mm):	0.34
Sorting (phi):	1.612
Skewness (phi):	-0.562
Kurtosis (phi):	1.884
D ₁₀ (phi):	-2.20
D ₁₀ (mm):	4.60
D ₅₀ (phi):	2.01
D ₅₀ (mm):	0.25
LOI % (450°C):	0.8

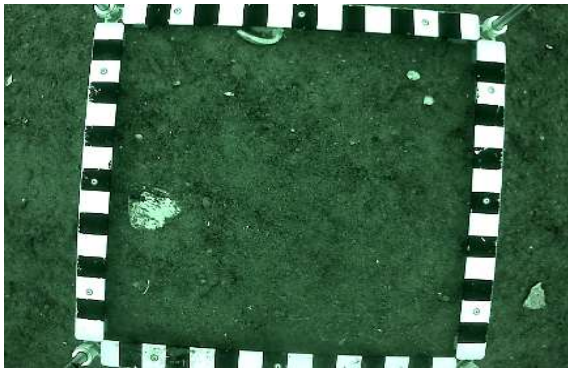
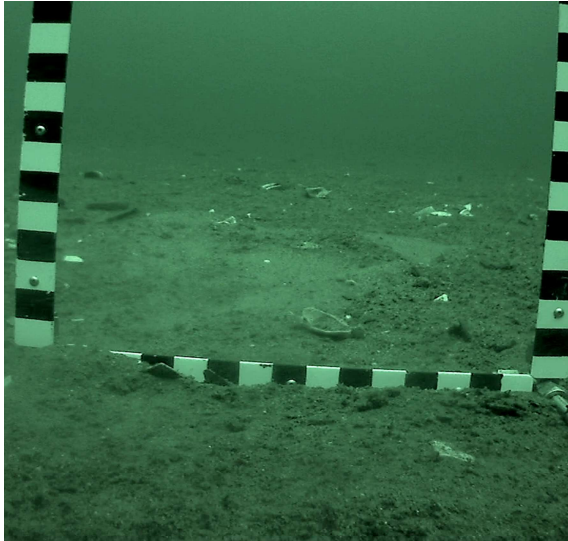
Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	1.63
-3	13.34
-2.5	8.76
-2	3.13
-1.5	1.96
-1	2.06
-0.5	2.64
0	3.04
0.5	3.46
1	4.58
1.5	6.42
2	13.83
2.5	20.87
3	9.65
3.5	1.41
4	0.32
>4	2.88
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	1.63
-3	13.34
-2.5	8.76
-2	3.13
-1.5	1.96
-1	2.06
-0.5	2.64
0	3.04
0.5	3.46
1	4.58
1.5	6.42
2	13.83
2.5	20.87
3	9.65
3.5	1.41
4	0.32
>4	2.88
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	2.43
-3	3.28
-2.5	3.54
-2	1.30
-1.5	0.94
-1	0.69
-0.5	1.42
0	2.21
0.5	3.51
1	4.44
1.5	7.43
2	18.33
2.5	27.33
3	17.30
3.5	2.93
4	0.53
>4	2.41
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T62



Station Information

Latitude, Longitude:	42.985456	-70.653036
Water Depth (m):	23.8	
Sample Weight (g):	328.7	
Date Collected, Analyzed:	8/15/2017	4/11/2018

Sample 1

Latitude, Longitude:	42.985456	-70.653036
Water Depth (m):	23.8	
Sample Weight (g):	328.7	
Date Collected, Analyzed:	8/15/2017	4/11/2018

Sample 2

Latitude, Longitude:	42.985586	-70.652722
Water Depth (m):	23.8	
Sample Weight (g):	195.4	
Date Collected, Analyzed:	8/15/2017	5/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Coarse Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Coarse Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Coarse Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Coarse Sand
Mean Size:	Coarse Sand
Sorting:	Poorly Sorted

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Coarse Sand
Mean Size:	Coarse Sand
Sorting:	Poorly Sorted

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Coarse Sand
Mean Size:	Coarse Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebbly Coarse Sand
Mean Size:	Coarse Sand

Sediment Name:	Pebbly Coarse Sand
Mean Size:	Coarse Sand

Sediment Name:	Slightly Pebbly Coarse Sand
Mean Size:	Coarse Sand

Statistics

Gravel %:	13.6
Pebble %:	9.0
Granule %:	4.5
Sand %:	86.2
Mud %:	0.2
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	0.75
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	0.53
Mean size (mm):	0.69
Sorting (phi):	1.282
Skewness (phi):	-0.376
Kurtosis (phi):	1.684
D ₁₀ (phi):	-1.77
D ₁₀ (mm):	3.41
D ₅₀ (phi):	0.70
D ₅₀ (mm):	0.62
LOI % (450°C):	0.6

Gravel %:	13.6
Pebble %:	9.0
Granule %:	4.5
Sand %:	86.2
Mud %:	0.2
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	0.75
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	0.53
Mean size (mm):	0.69
Sorting (phi):	1.282
Skewness (phi):	-0.376
Kurtosis (phi):	1.684
D ₁₀ (phi):	-1.77
D ₁₀ (mm):	3.41
D ₅₀ (phi):	0.70
D ₅₀ (mm):	0.62
LOI % (450°C):	0.6

Gravel %:	3.7
Pebble %:	2.5
Granule %:	1.2
Sand %:	95.4
Mud %:	0.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	0.75
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	0.83
Mean size (mm):	0.56
Sorting (phi):	0.742
Skewness (phi):	-0.065
Kurtosis (phi):	1.068
D ₁₀ (phi):	-0.11
D ₁₀ (mm):	1.08
D ₅₀ (phi):	0.82
D ₅₀ (mm):	0.56
LOI % (450°C):	0.5

Size Distribution (phi)

-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	2.56
-3	2.69
-2.5	1.95
-2	1.83
-1.5	2.18
-1	2.35
-0.5	3.33
0	6.64
0.5	15.94
1	26.33
1.5	18.04
2	13.46
2.5	2.19
3	0.24
3.5	0.03
4	0.01
>4	0.23
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	2.56
-3	2.69
-2.5	1.95
-2	1.83
-1.5	2.18
-1	2.35
-0.5	3.33
0	6.64
0.5	15.94
1	26.33
1.5	18.04
2	13.46
2.5	2.19
3	0.24
3.5	0.03
4	0.01
>4	0.23
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.37
-2.5	0.40
-2	0.77
-1.5	0.35
-1	0.83
-0.5	1.78
0	5.82
0.5	19.24
1	29.82
1.5	22.08
2	15.12
2.5	1.26
3	0.19
3.5	0.09
4	0.03
>4	0.84
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T64



Station Information

Latitude, Longitude:	42.978964	-70.663495
Water Depth (m):	25.6	
Sample Weight (g):	182.2	
Date Collected, Analyzed:	8/15/2017	4/18/2018

Sample 1

Latitude, Longitude:	42.978964	-70.663495
Water Depth (m):	25.6	
Sample Weight (g):	182.2	
Date Collected, Analyzed:	8/15/2017	4/18/2018

Sample 2

Latitude, Longitude:	42.979064	-70.663322
Water Depth (m):	25.6	
Sample Weight (g):	112.7	
Date Collected, Analyzed:	8/15/2017	5/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Medium Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Medium Sand

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Medium Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Medium Sand
Mean Size:	Medium Sand
Sorting:	Moderately Well Sorted

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Medium Sand
Mean Size:	Medium Sand
Sorting:	Moderately Well Sorted

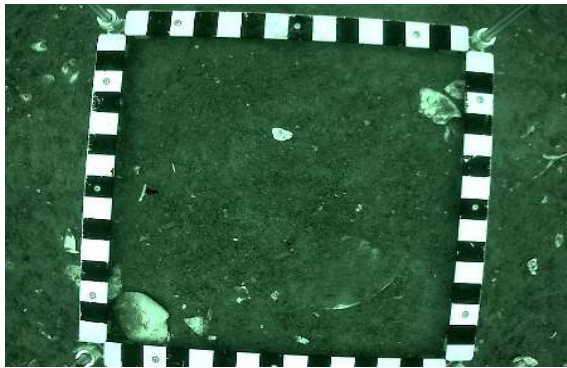
Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Medium Sand
Mean Size:	Medium Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Medium Sand
Mean Size:	Medium Sand

Sediment Name:	Slightly Granular Medium Sand
Mean Size:	Medium Sand

Sediment Name:	Slightly Granular Medium Sand
Mean Size:	Medium Sand



Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	99.4
Mud %:	0.6
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	1.75
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.66
Mean size (mm):	0.32
Sorting (phi):	0.659
Skewness (phi):	-0.260
Kurtosis (phi):	1.006
D ₁₀ (phi):	0.66
D ₁₀ (mm):	0.63
D ₅₀ (phi):	1.75
D ₅₀ (mm):	0.30
LOI % (450°C):	0.5

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	99.2
Mud %:	0.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	1.75
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.87
Mean size (mm):	0.27
Sorting (phi):	0.614
Skewness (phi):	-0.142
Kurtosis (phi):	1.292
D ₁₀ (phi):	1.00
D ₁₀ (mm):	0.50
D ₅₀ (phi):	1.90
D ₅₀ (mm):	0.27
LOI % (450°C):	0.5

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	99.2
Mud %:	0.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	1.75
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.87
Mean size (mm):	0.27
Sorting (phi):	0.614
Skewness (phi):	-0.142
Kurtosis (phi):	1.292
D ₁₀ (phi):	1.00
D ₁₀ (mm):	0.50
D ₅₀ (phi):	1.90
D ₅₀ (mm):	0.27
LOI % (450°C):	0.5



NSBE-T64-S1

Size Distribution (phi)

-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.05
-0.5	0.19
0	0.95
0.5	5.08
1	11.26
1.5	13.92
2	36.19
2.5	27.24
3	4.32
3.5	0.19
4	0.03
>4	0.58
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.05
-0.5	0.19
0	0.95
0.5	5.08
1	11.26
1.5	13.92
2	36.19
2.5	27.24
3	4.32
3.5	0.19
4	0.03
>4	0.58
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

(%)	
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.04
-0.5	0.16
0	0.71
0.5	3.04
1	5.99
1.5	10.13
2	37.10
2.5	31.65
3	9.74
3.5	0.60
4	0.05
>4	0.79
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A



NSBE-T64-S2

SH12-04



Sample 1

Station Information

Latitude, Longitude:	43.048156	-70.639286
Water Depth (m):	24.4	
Sample Weight (g):	696.9	
Date Collected, Analyzed:	6/28/2012	3/1, 3/29/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Very Coarse Gravel
Mean Size:	Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Pebble Gravel

Statistics

Gravel %:	64.4
Pebble %:	58.6
Granule %:	5.8
Sand %:	33.9
Mud %:	1.7
Silt %:	N/A
Clay %:	N/A
Modes:	Polymodal
Mode 1 (phi):	-5.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	-4.24
Mean size (phi):	-2.24
Mean size (mm):	4.71
Sorting (phi):	2.786
Skewness (phi):	0.363
Kurtosis (phi):	0.618
D ₁₀ (phi):	-5.24
D ₁₀ (mm):	37.82
D ₅₀ (phi):	-2.98
D ₅₀ (mm):	7.87
LOI % (450°C):	0.7

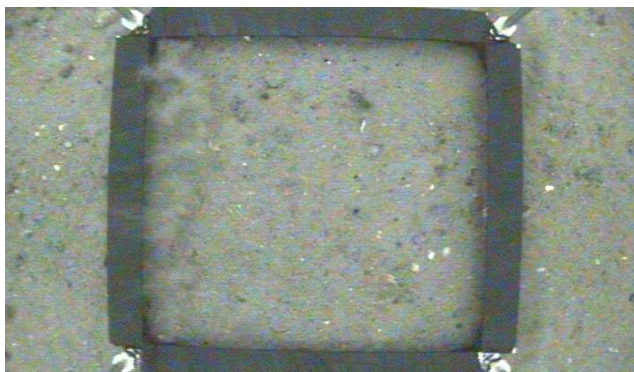
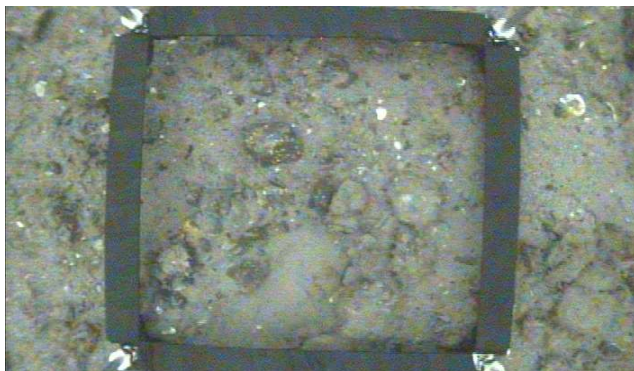


Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	20.55
-4.5	4.47
-4	8.31
-3.5	6.35
-3	10.10
-2.5	4.66
-2	4.15
-1.5	3.30
-1	2.54
-0.5	2.58
0	2.62
0.5	3.60
1	5.99
1.5	6.53
2	6.09
2.5	4.00
3	1.87
3.5	0.38
4	0.20
>4	1.70
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-05

Sample 1



Station Information

Latitude, Longitude:	43.043894	-70.634703
Water Depth (m):	32.6	
Sample Weight (g):	221.2	
Date Collected, Analyzed:	6/28/2012	3/1/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Muddy Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Muddy Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Muddy Sandy Coarse Gavel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Muddy Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Statistics

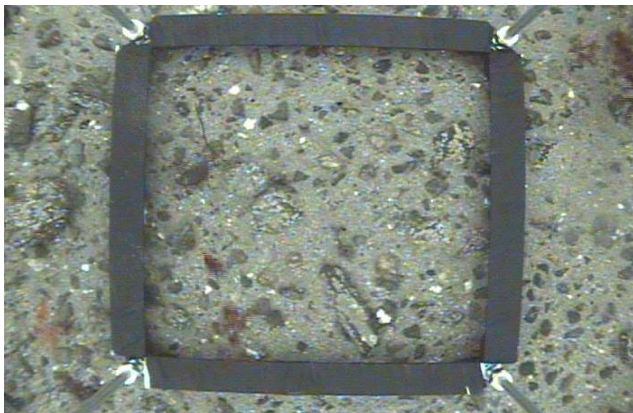
Gravel %:	38.1
Pebble %:	29.7
Granule %:	8.4
Sand %:	55.4
Mud %:	6.5
Silt %:	3.5
Clay %:	3.0
Modes:	Bimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	-4.73
Mode 3 (phi):	N/A
Mean size (phi):	-0.02
Mean size (mm):	1.01
Sorting (phi):	3.039
Skewness (phi):	-0.260
Kurtosis (phi):	0.816
D ₁₀ (phi):	-4.55
D ₁₀ (mm):	23.49
D ₅₀ (phi):	0.77
D ₅₀ (mm):	0.59
LOI % (450°C):	1.0

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	11.61
-4	0.00
-3.5	5.13
-3	5.46
-2.5	3.12
-2	4.44
-1.5	4.48
-1	3.91
-0.5	4.00
0	3.12
0.5	2.88
1	3.41
1.5	5.00
2	10.18
2.5	11.99
3	10.90
3.5	2.83
4	1.07
>4	N/A
5	1.63
6	0.74
7	0.58
8	0.52
9	0.55
10	0.50
Smaller than 10	1.94

SH12-09

Sample 1



Station Information

Latitude, Longitude:	43.055544	-70.623825
Water Depth (m):	33.5	
Sample Weight (g):	324.9	
Date Collected, Analyzed:	6/28/2012	3/1, 3/29/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted



Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Granule Gravel

Statistics

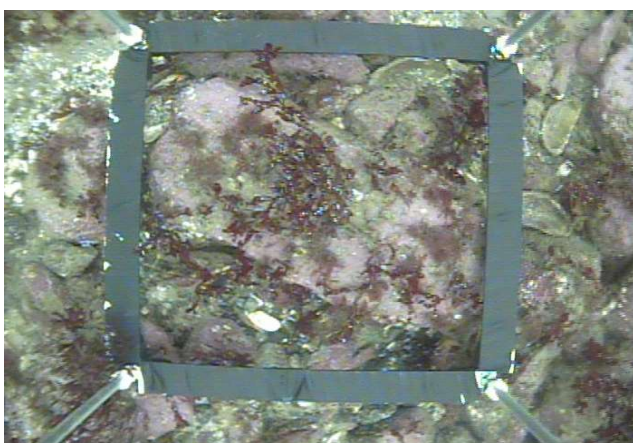
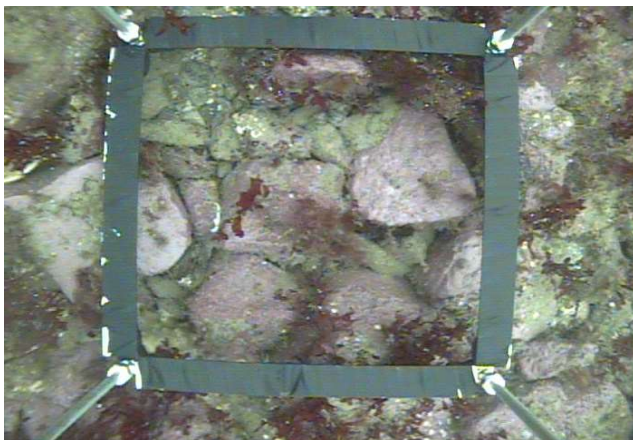
Gravel %:	60.7
Pebble %:	52.1
Granule %:	8.6
Sand %:	36.2
Mud %:	3.1
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-4.73
Mode 2 (phi):	2.24
Mode 3 (phi):	N/A
Mean size (phi):	-1.56
Mean size (mm):	2.95
Sorting (phi):	2.864
Skewness (phi):	0.300
Kurtosis (phi):	0.641
D ₁₀ (phi):	-4.73
D ₁₀ (mm):	26.48
D ₅₀ (phi):	-2.17
D ₅₀ (mm):	4.50
LOI % (450°C):	0.8



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	19.66
-4	0.00
-3.5	13.30
-3	7.84
-2.5	5.33
-2	5.98
-1.5	4.58
-1	4.00
-0.5	2.93
0	1.65
0.5	1.93
1	4.45
1.5	5.64
2	5.84
2.5	6.88
3	4.66
3.5	1.53
4	0.67
>4	3.13
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-11



Sample 1

Station Information

Latitude, Longitude:	43.057017	-70.650367
Water Depth (m):	N/A	
Sample Weight (g):	71.7	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Coarse Gravel
Mean Size:	Coarse Gravel
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

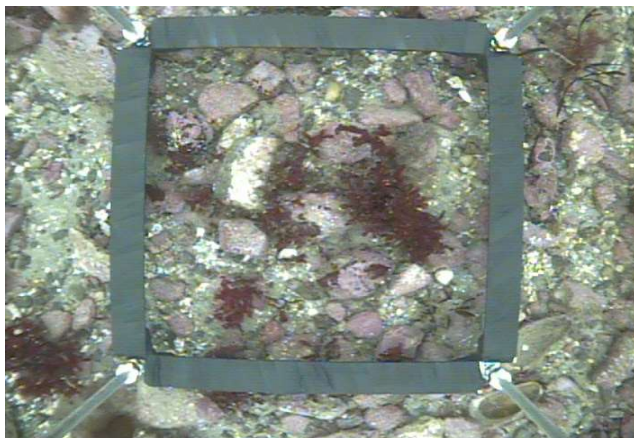
Statistics

Gravel %:	93.1
Pebble %:	91.0
Granule %:	2.0
Sand %:	6.8
Mud %:	0.1
Silt %:	N/A
Clay %:	N/A
Modes:	N/A
Mode 1 (phi):	N/A
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-4.01
Mean size (mm):	16.14
Sorting (phi):	1.054
Skewness (phi):	0.399
Kurtosis (phi):	1.794
D ₁₀ (phi):	-4.83
D ₁₀ (mm):	28.48
D ₅₀ (phi):	-4.10
D ₅₀ (mm):	17.12
LOI % (450°C):	N/A

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	33.89
-4	20.17
-3.5	27.65
-3	3.82
-2.5	3.80
-2	1.69
-1.5	0.96
-1	1.08
-0.5	2.02
0	1.87
0.5	1.31
1	0.63
1.5	0.38
2	0.19
2.5	0.11
3	0.20
3.5	0.07
4	0.04
>4	0.11
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-12



Sample 1

Station Information

Latitude, Longitude:	43.094919	-70.639372
Water Depth (m):	N/A	
Sample Weight (g):	280.4	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Very Coarse Gravel
Mean Size:	Coarse Gravel
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

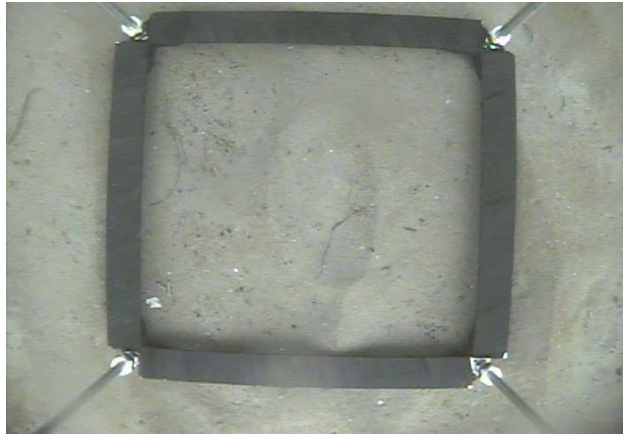
Statistics

Gravel %:	91.9
Pebble %:	89.5
Granule %:	2.3
Sand %:	7.8
Mud %:	0.4
Silt %:	N/A
Clay %:	N/A
Modes:	N/A
Mode 1 (phi):	N/A
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-4.47
Mean size (mm):	22.15
Sorting (phi):	1.573
Skewness (phi):	0.820
Kurtosis (phi):	1.941
D ₁₀ (phi):	-5.41
D ₁₀ (mm):	42.43
D ₅₀ (phi):	-5.07
D ₅₀ (mm):	33.59
LOI % (450°C):	N/A

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	60.96
-4.5	0.00
-4	12.85
-3.5	7.32
-3	2.75
-2.5	3.27
-2	2.38
-1.5	1.15
-1	1.18
-0.5	0.92
0	0.59
0.5	0.56
1	1.03
1.5	1.49
2	1.55
2.5	0.74
3	0.42
3.5	0.30
4	0.16
>4	0.38
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-13



Sample 1

Station Information

Latitude, Longitude:	43.097294	-70.648036
Water Depth (m):	10.1	
Sample Weight (g):	84.2	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	99.0
Mud %:	1.0
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.96
Mean size (mm):	0.13
Sorting (phi):	0.401
Skewness (phi):	0.051
Kurtosis (phi):	0.948
D ₁₀ (phi):	2.51
D ₁₀ (mm):	0.18
D ₅₀ (phi):	2.95
D ₅₀ (mm):	0.13
LOI % (450°C):	0.5

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.01
-0.5	0.01
0	0.01
0.5	0.01
1	0.06
1.5	0.16
2	0.83
2.5	5.97
3	47.69
3.5	38.15
4	6.10
>4	1.00
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

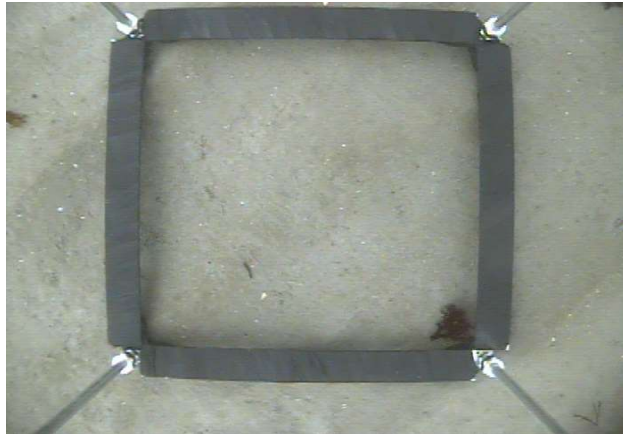
SH12-13



SH12-13



SH12-14



Sample 1

Station Information

Latitude, Longitude:	43.096169	-70.646881
Water Depth (m):	11.3	
Sample Weight (g):	99.8	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.1
Pebble %:	0.0
Granule %:	0.1
Sand %:	98.3
Mud %:	1.6
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.98
Mean size (mm):	0.13
Sorting (phi):	0.433
Skewness (phi):	-0.011
Kurtosis (phi):	1.045
D ₁₀ (phi):	2.50
D ₁₀ (mm):	0.18
D ₅₀ (phi):	2.98
D ₅₀ (mm):	0.13
LOI % (450°C):	0.5

SH12-14



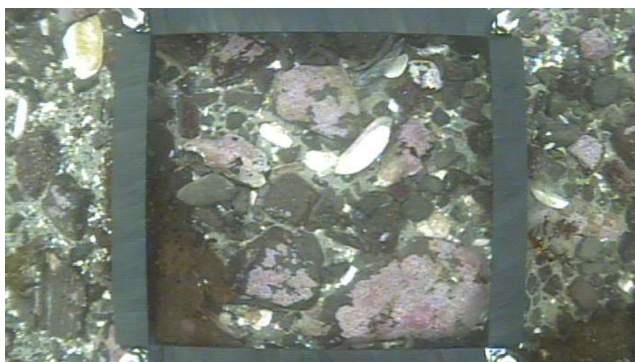
SH12-14



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.02
-1	0.06
-0.5	0.02
0	0.01
0.5	0.08
1	0.31
1.5	0.73
2	1.60
2.5	5.08
3	44.06
3.5	39.89
4	6.54
>4	1.60
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-15



Sample B

Station Information

Latitude, Longitude:	43.093020	-70.647627
Water Depth (m):	13.7	
Sample Weight (g):	317.6	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Medium Sand
Mean Size:	Fine Gravel
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

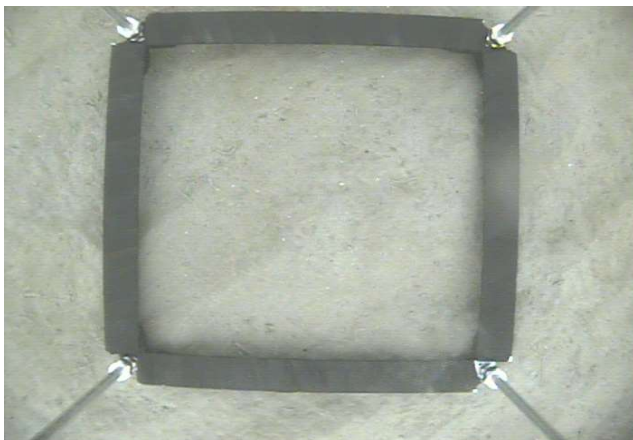
Statistics

Gravel %:	85.8
Pebble %:	79.7
Granule %:	6.2
Sand %:	13.5
Mud %:	0.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	-4.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-2.97
Mean size (mm):	7.83
Sorting (phi):	1.848
Skewness (phi):	0.461
Kurtosis (phi):	1.841
D ₁₀ (phi):	-4.39
D ₁₀ (mm):	20.91
D ₅₀ (phi):	-3.23
D ₅₀ (mm):	9.36
LOI % (450°C):	2.2

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	6.35
-4	17.81
-3.5	16.54
-3	17.38
-2.5	13.33
-2	8.24
-1.5	4.24
-1	1.93
-0.5	0.96
0	0.51
0.5	0.45
1	0.60
1.5	0.75
2	0.85
2.5	0.96
3	3.74
3.5	3.72
4	0.90
>4	0.73
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-16



Sample 1

Station Information

Latitude, Longitude:	43.091936	-70.651581
Water Depth (m):	8.8	
Sample Weight (g):	132.6	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Very Fine Sand

Statistics

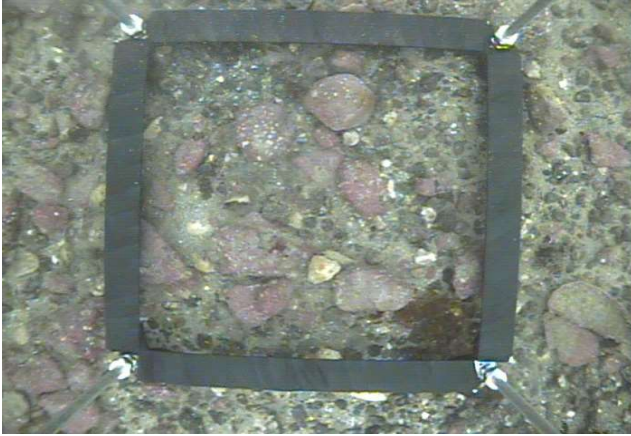
Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.6
Mud %:	1.4
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.00
Mean size (mm):	0.12
Sorting (phi):	0.385
Skewness (phi):	0.096
Kurtosis (phi):	0.899
D ₁₀ (phi):	2.55
D ₁₀ (mm):	0.17
D ₅₀ (phi):	3.00
D ₅₀ (mm):	0.12
LOI % (450°C):	0.5



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.00
0	0.01
0.5	0.02
1	0.01
1.5	0.06
2	0.25
2.5	3.21
3	46.24
3.5	41.13
4	7.70
>4	1.38
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-17



Sample 1

Station Information

Latitude, Longitude:	43.063233	-70.663283
Water Depth (m):	22.6	
Sample Weight (g):	201.9	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Granule Gravel

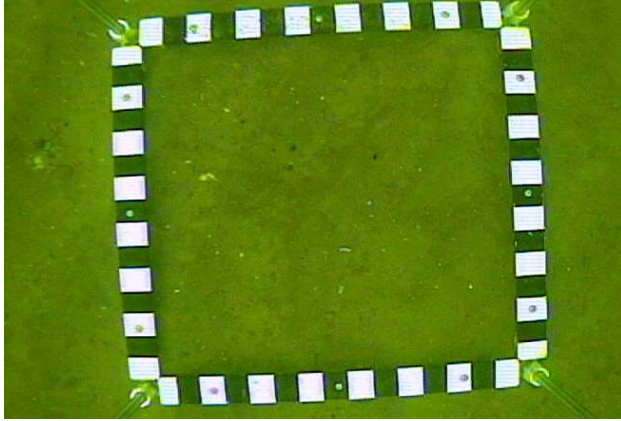
Statistics

Gravel %:	63.5
Pebble %:	53.0
Granule %:	10.5
Sand %:	35.3
Mud %:	1.2
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	1.75
Mode 3 (phi):	N/A
Mean size (phi):	-1.54
Mean size (mm):	2.91
Sorting (phi):	2.265
Skewness (phi):	0.385
Kurtosis (phi):	0.612
D ₁₀ (phi):	-3.96
D ₁₀ (mm):	15.53
D ₅₀ (phi):	-2.22
D ₅₀ (mm):	4.67
LOI % (450°C):	0.6

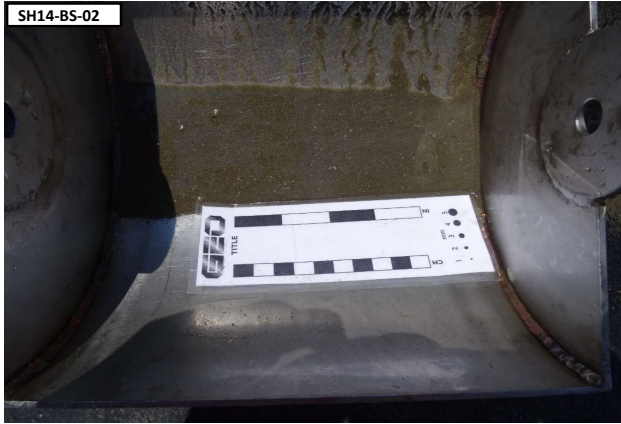
Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	8.15
-3.5	21.88
-3	11.15
-2.5	5.36
-2	6.41
-1.5	5.64
-1	4.86
-0.5	4.18
0	3.07
0.5	3.06
1	4.54
1.5	6.82
2	9.06
2.5	2.80
3	0.78
3.5	0.60
4	0.42
>4	1.22
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH14-BS-02



SH14-BS-02



SH14-BS-02



Sample 1

Station Information

Latitude, Longitude:	42.979475	-70.741855
Water Depth (m):	18.3	
Sample Weight (g):	36.7	
Date Collected, Analyzed:	6/30/2014	4/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Muddy Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Muddy Sand
Textural Group (SZC):	Silty Sand
Sediment Name:	Slightly Very Fine Gravelly Very Coarse Silty Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Coarse Silty Fine Sand
Mean Size:	Very Fine Sand

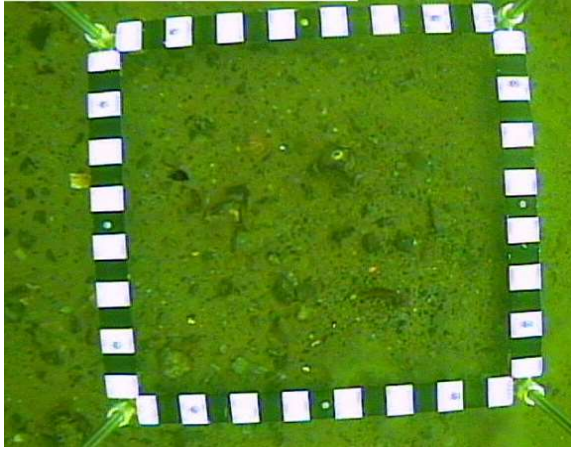
Statistics

Gravel %:	0.1
Pebble %:	0.0
Granule %:	0.1
Sand %:	73.0
Mud %:	27.0
Silt %:	22.7
Clay %:	4.3
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.43
Mean size (mm):	0.09
Sorting (phi):	1.373
Skewness (phi):	0.242
Kurtosis (phi):	1.530
D ₁₀ (phi):	2.03
D ₁₀ (mm):	0.24
D ₅₀ (phi):	3.34
D ₅₀ (mm):	0.10
LOI % (450°C):	N/A

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.05
-0.5	0.10
0	0.17
0.5	0.18
1	0.43
1.5	1.53
2	6.89
2.5	10.16
3	12.46
3.5	25.40
4	15.69
>4	N/A
5	17.22
6	3.79
7	1.05
8	0.64
9	0.65
10	0.59
Smaller than 10	3.01

SH14-BS-03



Station Information

Latitude, Longitude:	42.983972	-70.736481
Water Depth (m):	20.3	
Sample Weight (g):	484.1	
Date Collected, Analyzed:	6/30/2014	4/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravel
Mean Size:	Medium Gravel
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

Statistics

Gravel %:	88.0
Pebble %:	81.2
Granule %:	6.8
Sand %:	11.0
Mud %:	1.0
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	-4.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-3.09
Mean size (mm):	8.49
Sorting (phi):	1.611
Skewness (phi):	0.494
Kurtosis (phi):	1.687
D ₁₀ (phi):	-4.36
D ₁₀ (mm):	20.49
D ₅₀ (phi):	-3.37
D ₅₀ (mm):	10.33
LOI % (450°C):	N/A

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	3.96
-4	22.83
-3.5	18.63
-3	19.15
-2.5	10.43
-2	6.23
-1.5	4.16
-1	2.64
-0.5	1.99
0	1.33
0.5	1.13
1	0.97
1.5	0.85
2	0.84
2.5	0.83
3	1.13
3.5	1.42
4	0.52
>4	0.97
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Sample A

Sample B

Latitude, Longitude:	42.983936	-70.736288
Water Depth (m):	20.9	
Sample Weight (g):	385.9	
Date Collected, Analyzed:	6/30/2014	4/23/2018

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

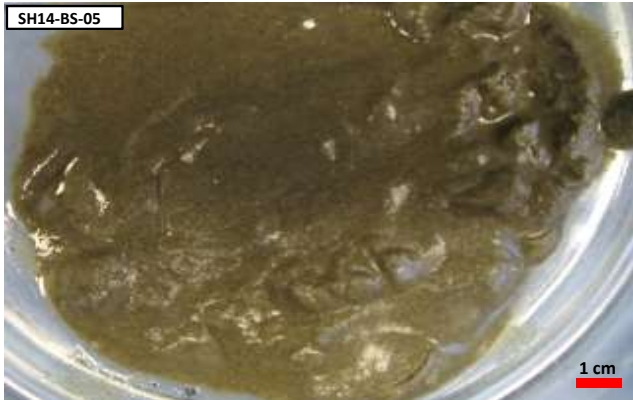
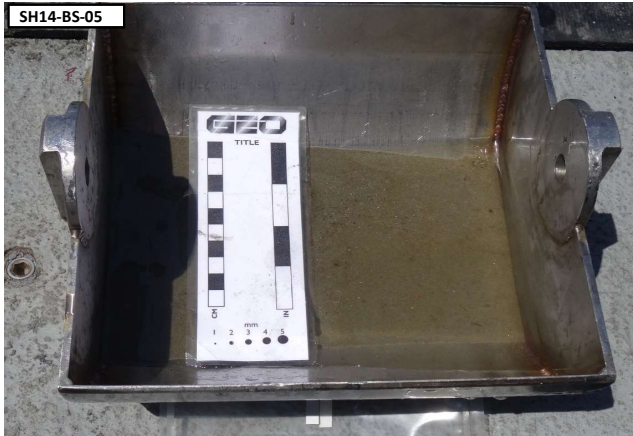
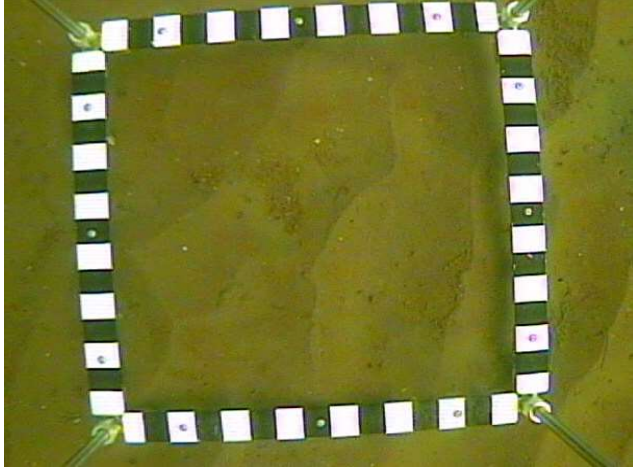
Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Granule Gravel

Gravel %:	70.1
Pebble %:	57.2
Granule %:	12.9
Sand %:	28.5
Mud %:	1.4
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-1.79
Mean size (mm):	3.45
Sorting (phi):	2.079
Skewness (phi):	0.501
Kurtosis (phi):	0.969
D ₁₀ (phi):	-3.75
D ₁₀ (mm):	13.47
D ₅₀ (phi):	-2.41
D ₅₀ (mm):	5.32
LOI % (450°C):	0.4

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	20.71
-3	17.34
-2.5	10.66
-2	8.48
-1.5	6.82
-1	6.07
-0.5	5.39
0	3.95
0.5	3.54
1	3.43
1.5	2.98
2	2.46
2.5	1.82
3	2.01
3.5	2.16
4	0.74
>4	1.44
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH14-BS-05



Sample 1

Station Information

Latitude, Longitude:	42.996231	-70.740064
Water Depth (m):	10.6	
Sample Weight (g):	100.2	
Date Collected, Analyzed:	6/30/2014	4/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	Sand
Sediment Name:	Well Sorted Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand

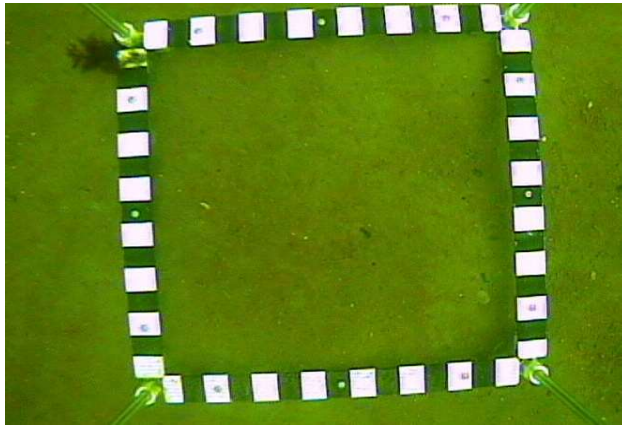
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	93.5
Mud %:	6.5
Silt %:	6.0
Clay %:	0.6
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.28
Mean size (mm):	0.10
Sorting (phi):	0.465
Skewness (phi):	0.153
Kurtosis (phi):	1.636
D ₁₀ (phi):	2.72
D ₁₀ (mm):	0.15
D ₅₀ (phi):	3.25
D ₅₀ (mm):	0.10
LOI % (450°C):	0.6

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.03
0	0.01
0.5	0.02
1	0.02
1.5	0.07
2	0.28
2.5	0.97
3	18.78
3.5	55.60
4	17.68
>4	N/A
5	5.46
6	0.32
7	0.10
8	0.09
9	0.03
10	0.10
Smaller than 10	0.43

SH14-BS-06



Sample 1

Station Information

Latitude, Longitude:	42.995856	-70.728489
Water Depth (m):	17.7	
Sample Weight (g):	149.1	
Date Collected, Analyzed:	7/1/2014	4/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Moderately Well Sorted



Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Very Fine Sand
Mean Size:	Very Fine Sand

Statistics

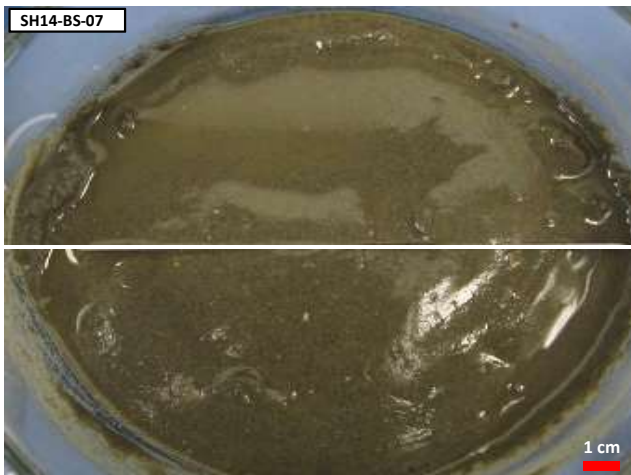
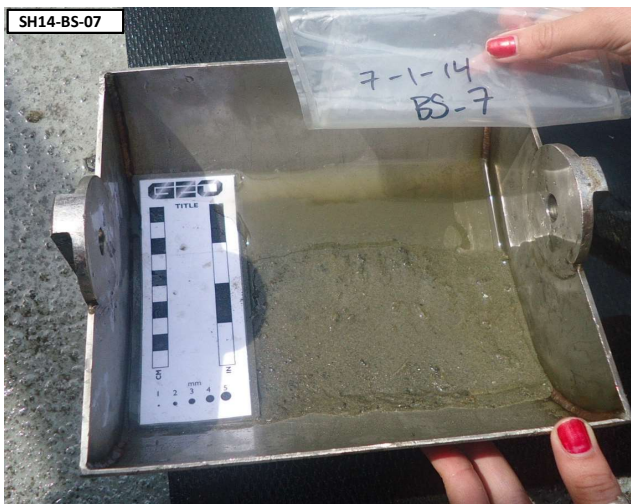
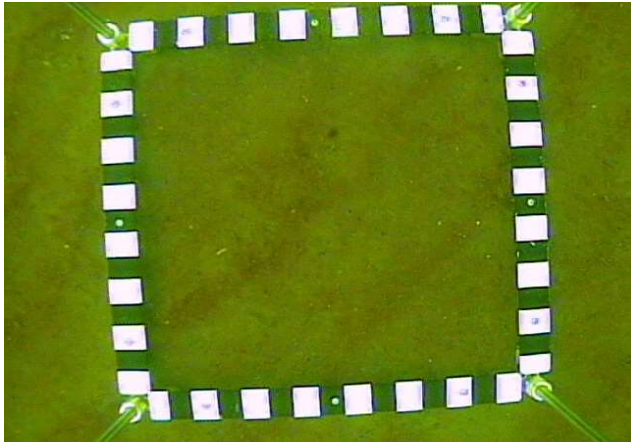
Gravel %:	2.6
Pebble %:	1.9
Granule %:	0.7
Sand %:	92.6
Mud %:	4.8
Silt %:	3.1
Clay %:	1.7
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.03
Mean size (mm):	0.12
Sorting (phi):	0.672
Skewness (phi):	-0.308
Kurtosis (phi):	1.896
D ₁₀ (phi):	2.26
D ₁₀ (mm):	0.21
D ₅₀ (phi):	3.09
D ₅₀ (mm):	0.12
LOI % (450°C):	0.7



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.24
-2.5	0.00
-2	0.67
-1.5	0.18
-1	0.53
-0.5	0.43
0	0.46
0.5	0.66
1	0.80
1.5	0.96
2	1.72
2.5	4.24
3	29.44
3.5	45.88
4	8.01
>4	N/A
5	2.05
6	0.51
7	0.29
8	0.29
9	0.22
10	0.24
Smaller than 10	1.19

SH14-BS-07



Sample 1

Station Information

Latitude, Longitude:	43.000470	-70.727247
Water Depth (m):	16.5	
Sample Weight (g):	130.5	
Date Collected, Analyzed:	7/1/2014	4/18/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebbly Very Fine Sand
Mean Size:	Fine Sand

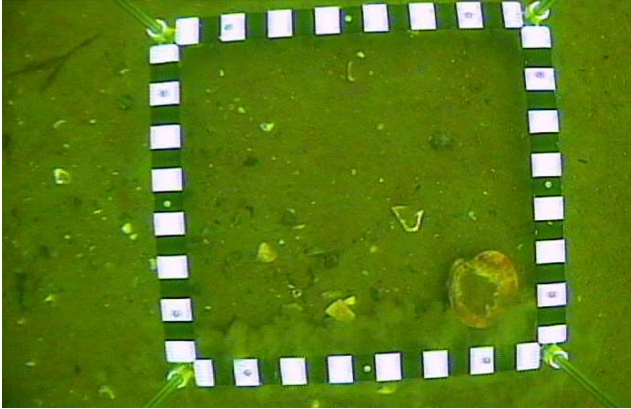
Statistics

Gravel %:	6.2
Pebble %:	5.5
Granule %:	0.7
Sand %:	88.8
Mud %:	5.0
Silt %:	3.5
Clay %:	1.5
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.90
Mean size (mm):	0.13
Sorting (phi):	1.313
Skewness (phi):	-0.488
Kurtosis (phi):	3.244
D ₁₀ (phi):	1.78
D ₁₀ (mm):	0.29
D ₅₀ (phi):	3.02
D ₅₀ (mm):	0.12
LOI % (450°C):	0.7

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	2.93
-2.5	2.34
-2	0.24
-1.5	0.53
-1	0.19
-0.5	0.08
0	0.13
0.5	0.16
1	0.29
1.5	0.81
2	4.11
2.5	10.36
3	26.69
3.5	34.88
4	11.25
>4	N/A
5	2.56
6	0.54
7	0.25
8	0.18
9	0.18
10	0.25
Smaller than 10	1.05

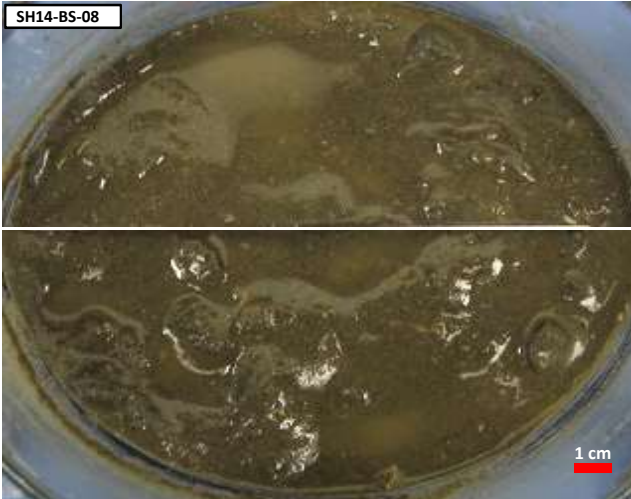
SH14-BS-08



SH14-BS-08



SH14-BS-08



Sample 1

Station Information

Latitude, Longitude:	43.000737	-70.722898
Water Depth (m):	19.8	
Sample Weight (g):	174.5	
Date Collected, Analyzed:	7/1/2014	4/18/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Fine Sand
Mean Size:	Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebbly Fine Sand
Mean Size:	Coarse Sand

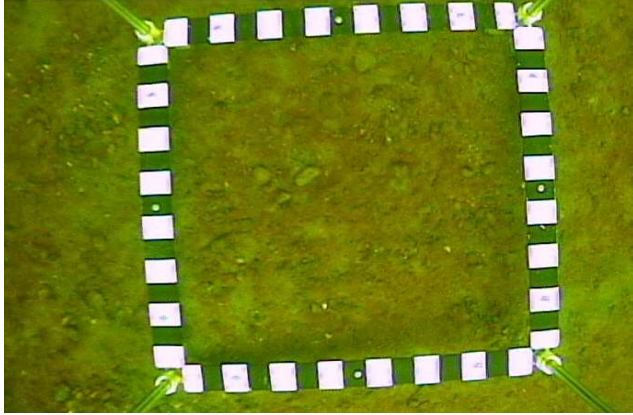
Statistics

Gravel %:	29.6
Pebble %:	25.7
Granule %:	3.9
Sand %:	67.1
Mud %:	3.4
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	-3.74
Mode 3 (phi):	N/A
Mean size (phi):	0.72
Mean size (mm):	0.61
Sorting (phi):	2.788
Skewness (phi):	-0.607
Kurtosis (phi):	0.622
D ₁₀ (phi):	-3.64
D ₁₀ (mm):	12.44
D ₅₀ (phi):	2.11
D ₅₀ (mm):	0.23
LOI % (450°C):	0.8

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	4.45
-3.5	7.87
-3	6.24
-2.5	3.98
-2	3.18
-1.5	1.95
-1	1.90
-0.5	1.71
0	1.21
0.5	1.09
1	1.62
1.5	3.20
2	8.56
2.5	12.54
3	15.43
3.5	17.23
4	4.48
>4	3.35
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH14-BS-09



Sample 1

Station Information

Latitude, Longitude:	43.006318	-70.720523
Water Depth (m):	8.8	
Sample Weight (g):	390.5	
Date Collected, Analyzed:	7/1/2014	5/2/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Statistics

Gravel %:	43.5
Pebble %:	37.1
Granule %:	6.4
Sand %:	54.6
Mud %:	2.0
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	1.75
Mode 3 (phi):	N/A
Mean size (phi):	-0.25
Mean size (mm):	1.19
Sorting (phi):	2.710
Skewness (phi):	-0.014
Kurtosis (phi):	0.579
D ₁₀ (phi):	-3.84
D ₁₀ (mm):	14.30
D ₅₀ (phi):	0.08
D ₅₀ (mm):	0.95
LOI % (450°C):	0.6

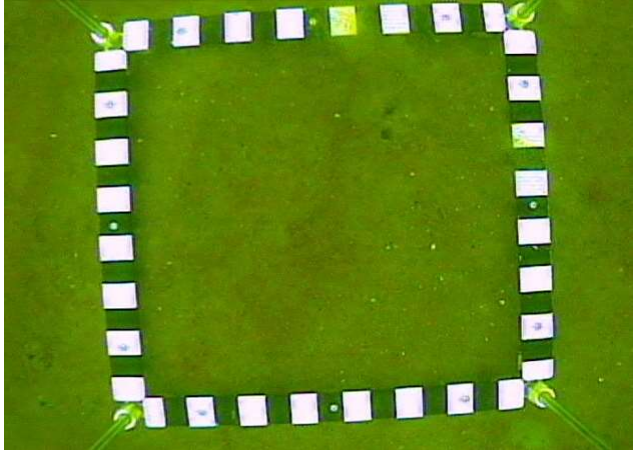


Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	6.48
-3.5	11.20
-3	10.31
-2.5	5.60
-2	3.51
-1.5	3.23
-1	3.14
-0.5	3.10
0	2.95
0.5	3.16
1	3.92
1.5	5.59
2	9.71
2.5	8.15
3	8.28
3.5	7.86
4	1.82
>4	1.98
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A



SH14-BS-10



Sample 1

Station Information

Latitude, Longitude:	43.008803	-70.714451
Water Depth (m):	20.7	
Sample Weight (g):	112.0	
Date Collected, Analyzed:	7/1/2014	4/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Very Fine Sand
Mean Size:	Medium Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebbly Very Fine Sand
Mean Size:	Fine Sand

Statistics

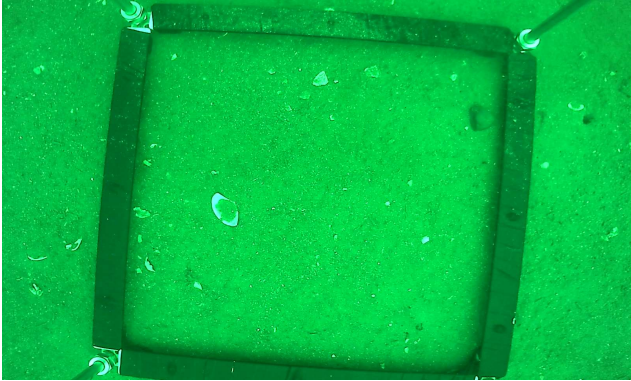
Gravel %:	17.4
Pebble %:	15.5
Granule %:	1.8
Sand %:	78.2
Mud %:	4.4
Silt %:	3.0
Clay %:	1.4
Modes:	Bimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	1.52
Mean size (mm):	0.35
Sorting (phi):	2.421
Skewness (phi):	-0.763
Kurtosis (phi):	1.824
D ₁₀ (phi):	-3.02
D ₁₀ (mm):	8.09
D ₅₀ (phi):	2.92
D ₅₀ (mm):	0.13
LOI % (450°C):	0.7



Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	4.17
-3	6.03
-2.5	3.52
-2	1.79
-1.5	1.19
-1	0.66
-0.5	0.89
0	0.76
0.5	0.79
1	1.10
1.5	2.42
2	5.47
2.5	6.20
3	17.65
3.5	34.79
4	8.15
>4	N/A
5	2.19
6	0.43
7	0.21
8	0.16
9	0.21
10	0.22
Smaller than 10	0.98

SH18-T01



Sample 1

Station Information

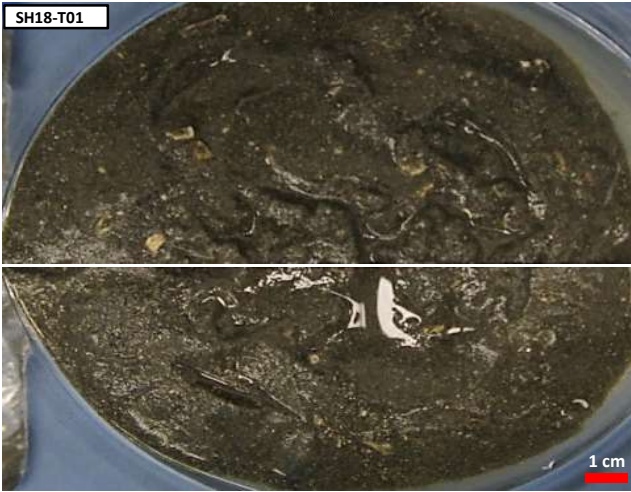
Latitude, Longitude:	43.110750	-70.620768
Water Depth (m):	25.0	
Sample Weight (g):	141.0	
Date Collected, Analyzed:	7/10/2018	7/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradstat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted



Gradstat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

Statistics

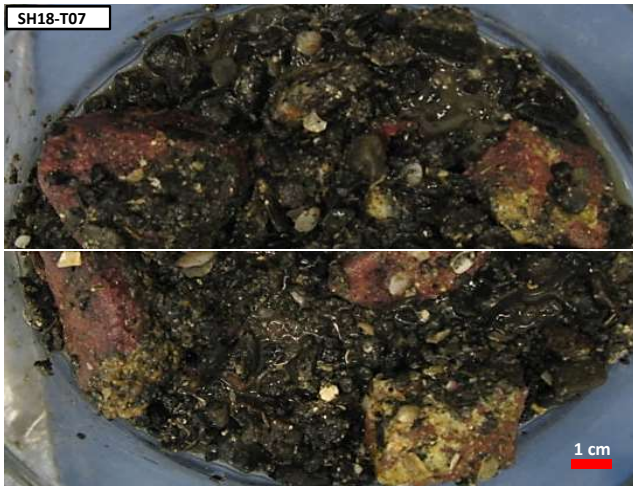
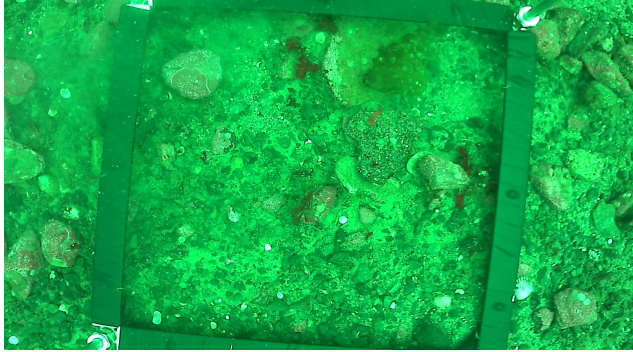
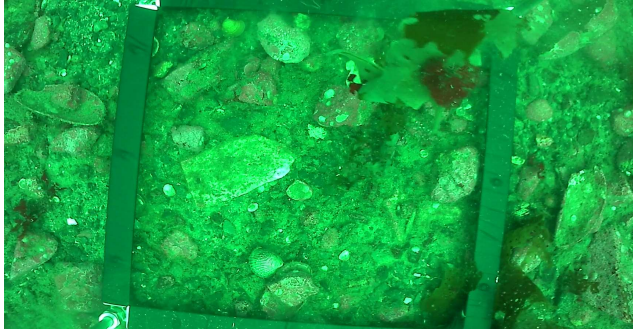
Gravel %:	1.4
Pebble %:	1.4
Granule %:	0.0
Sand %:	96.2
Mud %:	2.5
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.73
Mean size (mm):	0.15
Sorting (phi):	0.658
Skewness (phi):	-0.032
Kurtosis (phi):	1.042
D ₁₀ (phi):	1.88
D ₁₀ (mm):	0.27
D ₅₀ (phi):	2.74
D ₅₀ (mm):	0.15
LOI % (450°C):	0.8

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	1.03
-2	0.34
-1.5	0.00
-1	0.02
-0.5	0.11
0	0.26
0.5	0.31
1	0.44
1.5	1.35
2	8.02
2.5	21.51
3	32.94
3.5	23.42
4	7.80
>4	2.45
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH18-T07

Sample 1



Station Information

Latitude, Longitude:	43.100621	-70.629160
Water Depth (m):	21.3	
Sample Weight (g):	549.9	
Date Collected, Analyzed:	7/10/2018	7/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravel
Mean Size:	Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

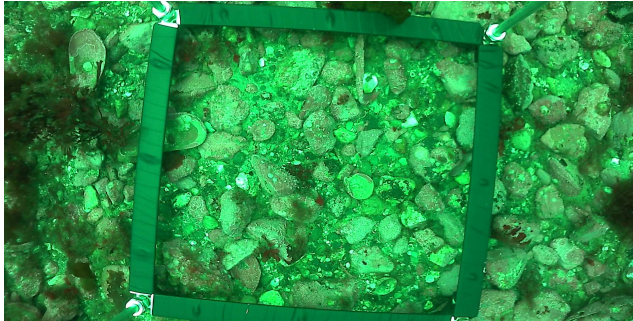
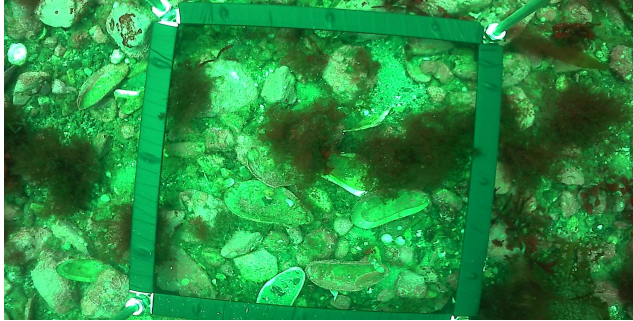
Statistics

Gravel %:	81.4
Pebble %:	70.8
Granule %:	10.6
Sand %:	17.5
Mud %:	1.1
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-5.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	-2.92
Mean size (mm):	7.55
Sorting (phi):	2.174
Skewness (phi):	0.260
Kurtosis (phi):	0.949
D ₁₀ (phi):	-5.19
D ₁₀ (mm):	36.58
D ₅₀ (phi):	-3.13
D ₅₀ (mm):	8.76
LOI % (450°C):	0.8

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	17.24
-4.5	14.90
-4	0.00
-3.5	9.97
-3	10.80
-2.5	10.28
-2	7.64
-1.5	6.46
-1	4.10
-0.5	3.37
0	2.16
0.5	2.15
1	2.27
1.5	2.45
2	2.62
2.5	1.20
3	0.60
3.5	0.45
4	0.26
>4	1.07
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH18-T09



Sample 1

Station Information

Latitude, Longitude:	43.095376	-70.626840
Water Depth (m):	20.0	
Sample Weight (g):	424.1	
Date Collected, Analyzed:	7/10/2018	7/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradstat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Very Coarse Gravel
Mean Size:	Very Coarse Gravel
Sorting:	Poorly Sorted

Gradstat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

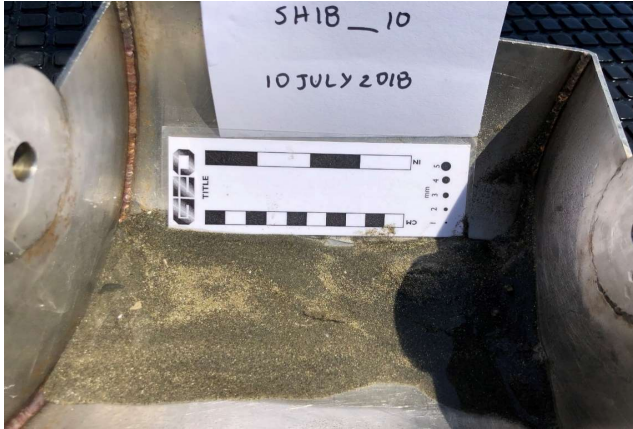
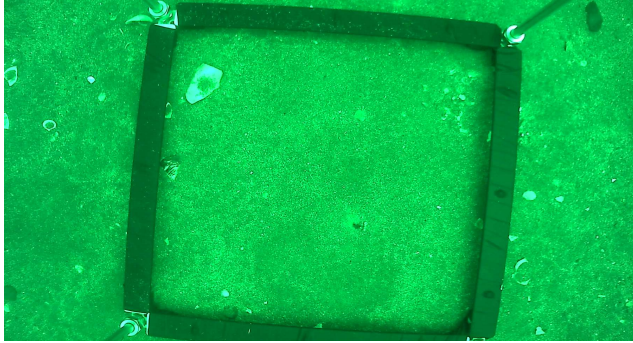
Statistics

Gravel %:	92.4
Pebble %:	91.8
Granule %:	0.6
Sand %:	7.1
Mud %:	0.5
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	-5.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-5.23
Mean size (mm):	37.61
Sorting (phi):	1.404
Skewness (phi):	0.601
Kurtosis (phi):	3.218
D ₁₀ (phi):	-5.87
D ₁₀ (mm):	58.44
D ₅₀ (phi):	-5.39
D ₅₀ (mm):	41.79
LOI % (450°C):	N/A

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	44.92
-5	24.53
-4.5	15.29
-4	0.00
-3.5	2.24
-3	3.43
-2.5	1.08
-2	0.34
-1.5	0.30
-1	0.28
-0.5	0.40
0	0.49
0.5	0.65
1	0.70
1.5	0.84
2	1.83
2.5	1.29
3	0.59
3.5	0.18
4	0.09
>4	0.53
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH18-T10



Sample 1

Station Information

Latitude, Longitude:	43.085480	-70.636550
Water Depth (m):	27.1	
Sample Weight (g):	93.4	
Date Collected, Analyzed:	7/10/2018	7/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradstat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted

Gradstat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

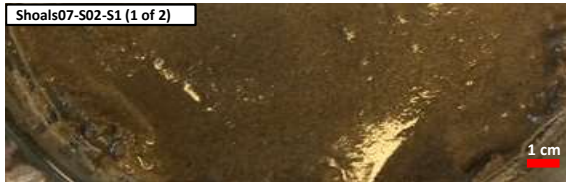
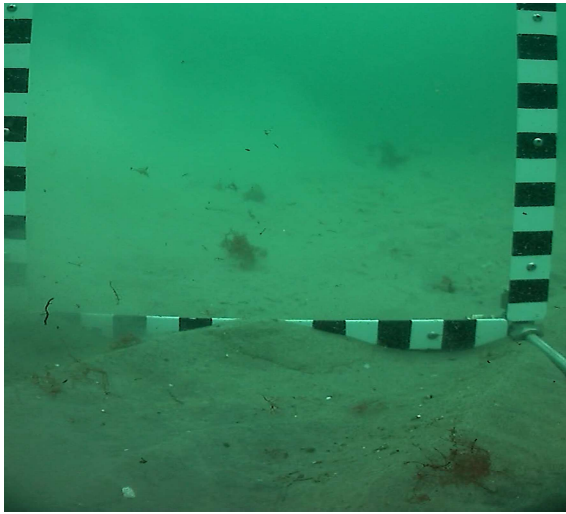
Statistics

Gravel %:	1.1
Pebble %:	0.9
Granule %:	0.2
Sand %:	97.1
Mud %:	1.9
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.45
Mean size (mm):	0.18
Sorting (phi):	0.554
Skewness (phi):	0.088
Kurtosis (phi):	1.055
D ₁₀ (phi):	1.72
D ₁₀ (mm):	0.30
D ₅₀ (phi):	2.41
D ₅₀ (mm):	0.19
LOI % (450°C):	0.8

Size Distribution (phi)

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.72
-2	0.16
-1.5	0.00
-1	0.18
-0.5	0.08
0	0.10
0.5	0.15
1	0.35
1.5	1.99
2	14.12
2.5	36.77
3	29.77
3.5	11.19
4	2.55
>4	1.86
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Shoals07-S02



Station Information

Latitude, Longitude:	42.868036	-70.810027
Water Depth (m):	8.5	
Sample Weight (g):	232.7	
Date Analyzed:	10/13/2016	10/25/16, 7/5/18

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Granuley	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand	Slightly Granuley Very Fine Sand

Gradistat

Textural Group (GSM):	Slightly Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand	Very Fine Sand
Sorting:	Well Sorted	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand	Slightly Granular Very Fine Sand
Mean Size:	Very Fine Sand	Very Fine Sand

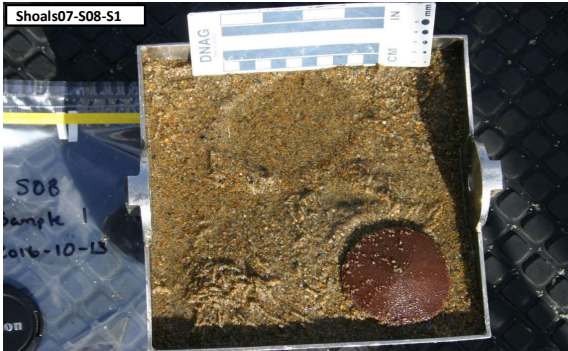
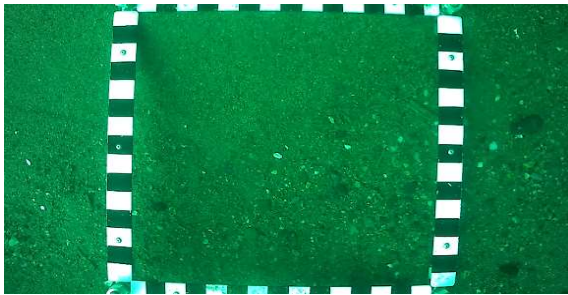
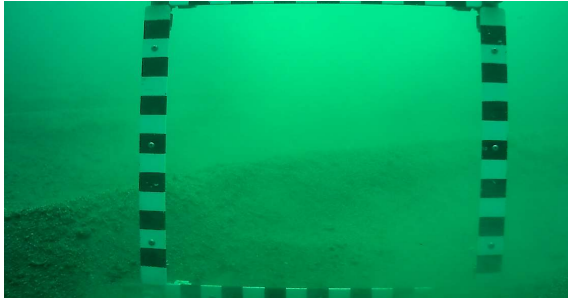
Statistics

Gravel %:	0.1	0.1
Pebble %:	0.0	0.0
Granule %:	0.1	0.1
Sand %:	98.5	98.4
Mud %:	1.4	1.5
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	3.24	3.24
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	3.03	3.02
Mean size (mm):	0.12	0.12
Sorting (phi):	0.446	0.454
Skewness (phi):	-0.159	-0.140
Kurtosis (phi):	1.092	1.076
D ₁₀ (phi):	2.49	2.48
D ₁₀ (mm):	0.18	0.18
D ₅₀ (phi):	3.09	3.07
D ₅₀ (mm):	0.12	0.12
LOI % (450°C):	0.4	N/A

Size Distribution (phi)

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.00	0.00
-2	0.00	0.00
-1.5	0.04	0.00
-1	0.04	0.10
-0.5	0.03	0.06
0	0.08	0.06
0.5	0.18	0.18
1	0.33	0.30
1.5	0.37	0.30
2	1.16	1.11
2.5	6.59	7.60
3	32.42	33.65
3.5	48.51	46.21
4	8.80	8.98
>4	1.44	1.47
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

Shoals07-S08



Station Information

Latitude, Longitude:	42.855847	-70.803396
Water Depth (m):	16.8	
Sample Weight (g):	367.5	
Date Analyzed:	10/13/2016	10/25/16, 7/5/18

Sample 1

Sample 2

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Coarse Unconsol. Substrate
Group:	Slightly Granuley	Granuley
Subgroup:	Slightly Granuley Coarse Sand	Granuley Coarse Sand

Gradistat

Textural Group (GSM):	Slightly Gravelly Sand	Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Very Fine Gravelly Coarse Sand	Very Fine Gravelly Coarse Sand
Mean Size:	Coarse Sand	Very Coarse Sand
Sorting:	Moderately Well Sorted	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Coarse Sand	Granular Coarse Sand
Mean Size:	Coarse Sand	Very Coarse Sand

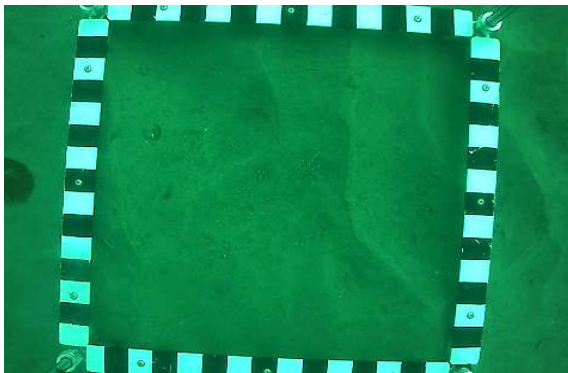
Statistics

Gravel %:	1.3	19.1
Pebble %:	0.0	8.7
Granule %:	1.2	10.4
Sand %:	98.2	80.5
Mud %:	0.5	0.4
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Bimodal
Mode 1 (phi):	0.25	0.25
Mode 2 (phi):	N/A	-4.24
Mode 3 (phi):	N/A	N/A
Mean size (phi):	0.42	-0.09
Mean size (mm):	0.75	1.07
Sorting (phi):	0.602	1.226
Skewness (phi):	-0.018	-0.349
Kurtosis (phi):	1.121	1.421
D ₁₀ (phi):	-0.35	-1.84
D ₁₀ (mm):	1.28	3.57
D ₅₀ (phi):	0.45	0.11
D ₅₀ (mm):	0.73	0.93
LOI % (450°C):	0.3	N/A

Size Distribution (phi)

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	4.64
-3.5	0.00	0.00
-3	0.00	0.55
-2.5	0.00	1.20
-2	0.03	2.26
-1.5	0.25	4.20
-1	0.97	6.21
-0.5	4.66	10.31
0	14.76	15.21
0.5	32.60	24.89
1	32.15	20.30
1.5	9.47	5.53
2	2.26	1.67
2.5	0.95	0.71
3	0.71	0.72
3.5	0.54	1.01
4	0.13	0.17
>4	0.54	0.42
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

Shoals07-S09



Station Information

Latitude, Longitude:	42.854926	-70.805300
Water Depth (m):		
Sample Weight (g):	306.0	
Date Analyzed:	10/6/2016	10/25/16, 7/5/18

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Gradistat

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Very Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.2
Mud %:	1.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.78
Mean size (mm):	0.15
Sorting (phi):	0.759
Skewness (phi):	-0.309
Kurtosis (phi):	1.365
D ₁₀ (phi):	1.61
D ₁₀ (mm):	0.33
D ₅₀ (phi):	2.90
D ₅₀ (mm):	0.13
LOI % (450°C):	0.3

Size Distribution (phi)

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.01
-0.5	0.03
0	0.26
0.5	1.58
1	3.17
1.5	3.63
2	6.00
2.5	11.46
3	29.71
3.5	33.95
4	8.39
>4	1.81
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Sample 1

Sample 2

Latitude, Longitude:	42.854867	-70.804997
Water Depth (m):		
Sample Weight (g):	136.9	
Date Analyzed:	10/6/2016	10/25/2016

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

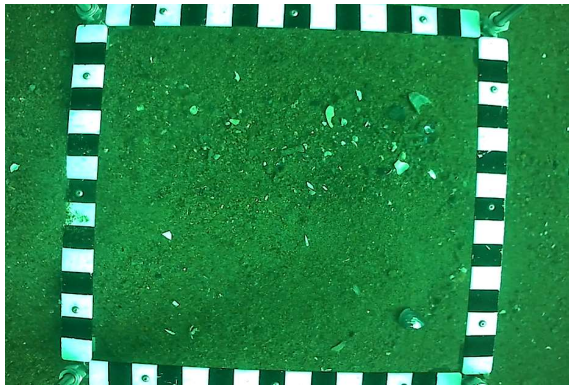
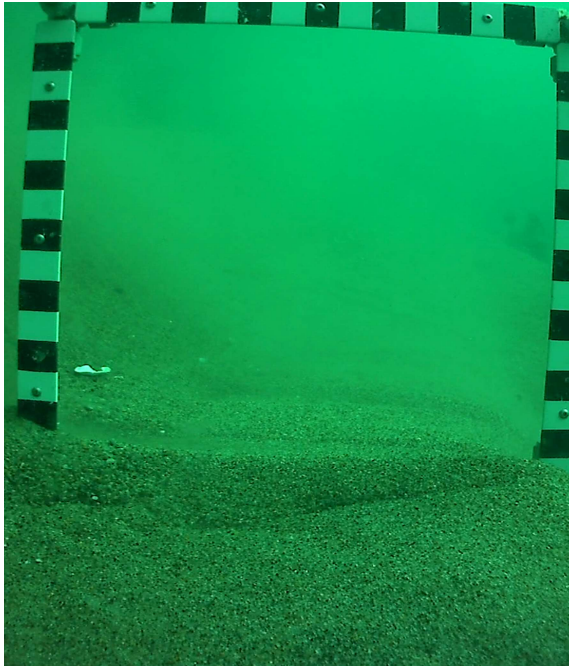
Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

Gravel %:	0.1
Pebble %:	0.0
Granule %:	0.1
Sand %:	98.9
Mud %:	1.1
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.76
Mean size (mm):	0.15
Sorting (phi):	0.790
Skewness (phi):	-0.340
Kurtosis (phi):	1.395
D ₁₀ (phi):	1.51
D ₁₀ (mm):	0.35
D ₅₀ (phi):	2.87
D ₅₀ (mm):	0.14
LOI % (450°C):	N/A

(phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.03
-1	0.02
-0.5	0.14
0	0.57
0.5	2.55
1	3.62
1.5	2.91
2	5.31
2.5	12.67
3	29.29
3.5	33.98
4	7.86
>4	1.05
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Shoals07-S11



Station Information

Latitude, Longitude:	42.849072	-70.805784
Water Depth (m):	13.4	
Sample Weight (g):	358.6	
Date Analyzed:	10/6/2016	10/25/16, 7/5/18

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Granuley	Slightly Granuley
Subgroup:	Slightly Granuley Coarse Sand	Slightly Granuley Coarse Sand

Gradistat

Textural Group (GSM):	Slightly Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Very Fine Gravelly Coarse Sand	Slightly Very Fine Gravelly Coarse Sand
Mean Size:	Coarse Sand	Coarse Sand
Sorting:	Moderately Sorted	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Coarse Sand	Slightly Granular Coarse Sand
Mean Size:	Coarse Sand	Coarse Sand

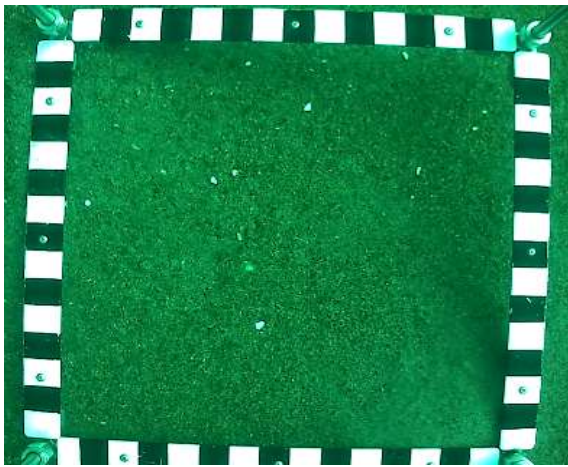
Statistics

Gravel %:	5.0	0.1
Pebble %:	1.1	0.0
Granule %:	3.9	0.1
Sand %:	94.7	99.5
Mud %:	0.4	0.4
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	0.25	0.75
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	0.28	0.84
Mean size (mm):	0.82	0.56
Sorting (phi):	0.766	0.769
Skewness (phi):	0.024	0.259
Kurtosis (phi):	1.127	1.398
D ₁₀ (phi):	-0.71	0.08
D ₁₀ (mm):	1.63	0.95
D ₅₀ (phi):	0.28	0.78
D ₅₀ (mm):	0.82	0.58
LOI % (450°C):	0.3	N/A

Size Distribution (phi)

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.50	0.00
-2.5	0.00	0.00
-2	0.59	0.00
-1.5	1.05	0.05
-1	2.85	0.10
-0.5	8.79	0.63
0	19.27	5.51
0.5	29.47	23.04
1	21.84	36.71
1.5	9.22	17.61
2	3.32	5.95
2.5	1.31	2.89
3	0.96	4.24
3.5	0.40	2.66
4	0.08	0.22
>4	0.36	0.41
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

Shoals07-S13



Station Information

Latitude, Longitude:	42.843429	-70.801355
Water Depth (m):	15.2	
Sample Weight (g):	175.1	
Date Analyzed:	10/6/2016	7/5/2018

Sample 1

Sample 2

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Granuley	Slightly Granuley
Subgroup:	Slightly Granuley Coarse Sand	Slightly Granuley Coarse Sand

Gradistat

Textural Group (GSM):	Slightly Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Very Fine Gravelly Coarse Sand	Slightly Very Fine Gravelly Coarse Sand
Mean Size:	Coarse Sand	Coarse Sand
Sorting:	Moderately Sorted	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Coarse Sand	Slightly Granular Coarse Sand
Mean Size:	Coarse Sand	Coarse Sand

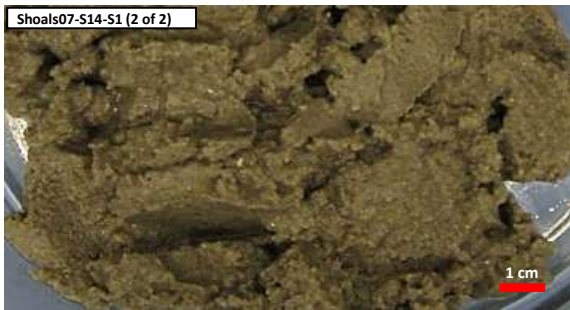
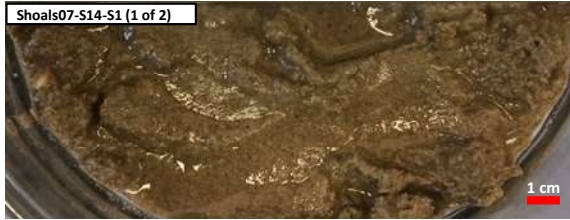
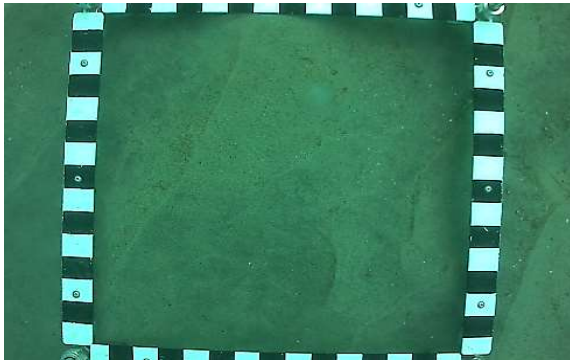
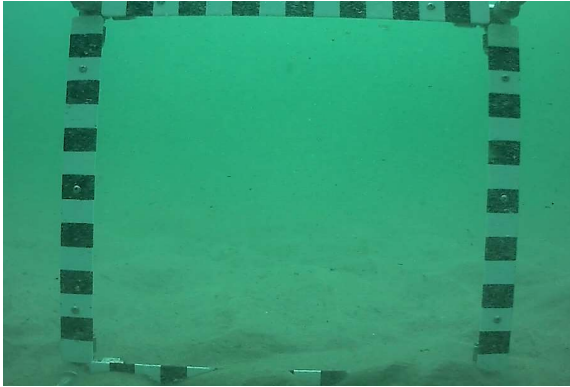
Statistics

Gravel %:	2.1	0.2
Pebble %:	0.3	0.0
Granule %:	1.8	0.2
Sand %:	97.5	99.4
Mud %:	0.4	0.4
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	0.75	0.75
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	0.54	0.72
Mean size (mm):	0.69	0.61
Sorting (phi):	0.835	0.662
Skewness (phi):	-0.010	-0.012
Kurtosis (phi):	0.934	0.974
D ₁₀ (phi):	-0.48	-0.15
D ₁₀ (mm):	1.40	1.11
D ₅₀ (phi):	0.56	0.73
D ₅₀ (mm):	0.68	0.60
LOI % (450°C):	0.3	N/A

Size Distribution (phi)

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.03	0.00
-2	0.25	0.03
-1.5	0.39	0.03
-1	1.39	0.16
-0.5	7.79	2.27
0	16.75	10.95
0.5	20.73	22.34
1	22.16	30.64
1.5	18.60	23.33
2	8.35	7.97
2.5	1.61	1.12
3	1.01	0.46
3.5	0.45	0.29
4	0.08	0.05
>4	0.41	0.37
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

Shoals07-S14



Station Information

Latitude, Longitude:	42.829714	-70.805199
Water Depth (m):	8.8	
Sample Weight (g):	321.6	
Date Analyzed:	10/6/2016	10/25/16, 7/5/18

CMECS Classifications

Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Pebbly	Sand
Subgroup:	Slightly Pebbly Fine Sand	Fine Sand

Gradistat

Textural Group (GSM):	Slightly Gravelly Sand	Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand	Fine Sand
Sorting:	Moderately Well Sorted	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand	Fine Sand
Mean Size:	Fine Sand	Fine Sand

Statistics

Gravel %:	0.2	0.0
Pebble %:	0.1	0.0
Granule %:	0.0	0.0
Sand %:	99.3	99.5
Mud %:	0.6	0.5
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	2.74	2.24
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	2.47	2.43
Mean size (mm):	0.18	0.19
Sorting (phi):	0.641	0.582
Skewness (phi):	-0.194	-0.077
Kurtosis (phi):	1.152	1.101
D ₁₀ (phi):	1.57	1.63
D ₁₀ (mm):	0.34	0.32
D ₅₀ (phi):	2.54	2.45
D ₅₀ (mm):	0.17	0.18
LOI % (450°C):	0.3	N/A

Size Distribution (phi)

(phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.14	0.00
-2	0.00	0.00
-1.5	0.00	0.00
-1	0.04	0.00
-0.5	0.04	0.01
0	0.21	0.10
0.5	0.77	0.38
1	2.26	1.58
1.5	4.91	4.44
2	11.17	12.62
2.5	26.19	32.55
3	36.68	33.70
3.5	15.34	13.10
4	1.66	1.04
>4	0.57	0.47
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A