

2007

# Physical Property and Chemical Characteristics of Surface Sediment Grab Samples from Narragansett Bay and the Providence and Seekonk Rivers

D. W. Murray

W L. Prell

*See next page for additional authors*

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Murray, D. W.; Prell, W L.; Rincon, C E.; and Saarman, E, "Physical Property and Chemical Characteristics of Surface Sediment Grab Samples from Narragansett Bay and the Providence and Seekonk Rivers" (2007). *Narragansett Bay Collection*. Paper 1.  
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**Authors**

D. W. Murray, W L. Prell, C E. Rincon, and E Saarman

**NBEP-2007-127**

Physical Property and Chemical Characteristics of Surface  
Sediment Grab Samples from Narragansett Bay and the Providence  
and Seekonk Rivers

Murray, D. W., Prell, W. L., Rincon, C. E., and Saarman, E.

Narragansett Bay Estuary Program

This document contains data tables, maps, plots, and documentation on Brown University's Narragansett Bay Sediment Project compiled by David W. Murray, Brown University, for the New England Interstate Water Pollution Control Commission with support from the U.S. Environmental Protection Agency. The data were compiled and analyzed as part of a New England pilot project exploring the development of a biological condition gradient applicable to estuarine systems. The Metadata file gives an overview of the data tables, methods, and plots. Questions and comments on these files should be directed to David W. Murray, Dept of Geological Sciences, Box 1846, Brown University, Providence, RI 02912; [dmurray@brown.edu](mailto:dmurray@brown.edu), 401-863-3531.

Please reference the following citation when using these data:

Murray, D.W., Prell, W.L., Rincon, C.E., and Saarman, E., 2007. Physical property and chemical characteristics of surface sediment grab samples from Narragansett Bay and the Providence and Seekonk Rivers, a summary of the Brown University Narragansett Bay Sediment Project (BUNBSP). Narragansett Bay Estuary Program Report, NBEP-07-127.

## METADATA

There are two primary data files compiled for this study:

1. Table1, 363 surface grab samples with corresponding data on date sampled, location, water depth, grain size, and carbon and nitrogen content.
2. Table2, 111 surface grab samples with corresponding data on elemental composition in addition to the information from Table 1.

### CITATION:

Please reference the following citation when using these data:

Murray, D.W., Prell, W.L., Rincon, C.E., and Saarman, E., 2007. Physical property and chemical characteristics of surface sediment grab samples from Narragansett Bay and the Providence and Seekonk Rivers, a summary of the Brown University Narragansett Bay Sediment Project (BUNBSP). Narragansett Bay Estuary Program Report NBEP-07-127.

### DATA SOURCE:

Environmental Chemistry Facility, Brown University

### CONTACT:

David W. Murray, Warren L. Prell

### CONTACT ADDRESS:

Department of Geological Sciences, Brown University, Box 1846  
Providence, RI 02912

### CONTACT PHONE:

(401) 863-3531, (401) 863-3221

### CONTACT EMAIL:

[dmurray@brown.edu](mailto:dmurray@brown.edu), warren\_prell@brown.edu

### TABLE 1 DATA FIELDS:

Area	Geographic area corresponding to map regions (see map)
Sequence #	Sequential number in table general order from north to south
Sample ID	Sample label for site and container
MapID	The corresponding label on the map included in this summary
Latitude	Location determined by GPS
Longitude	Location determined by GPS
CollectionDate	Date of collection mm/dd/yy
Datenoformat	Date of collection mmddyy
Depth	Water depth, scaled to mean high tide
Gravel	weight % > 2mm
Sand	weight % >63 microns and <2mm
Mud	weight % <63 microns
Ntot	weight %nitrogen
Ctot	weight %carbon (organic and inorganic forms)

CorgLOI                                  weight %carbon determined by loss on ignition  
Chemistry                                 samples used for further chemical analyses have value of 1, those  
    not used have value of zero.

TABLE 2 DATA FIELDS:

Area	Geographic area corresponding to map regions (see map)
Sequence #	Sequential number in table general order from north to south
Sample ID	Sample label for site and container
MapID	The corresponding label on the map included in this summary
Latitude	Location determined by GPS
Longitude	Location determined by GPS
CollectionDate	Date of collection mm/dd/yy
Datenoformat	Date of collection mmddyy
Depth	Water depth, scaled to mean high tide
Gravel	weight % > 2mm
Sand	weight % >63 microns and <2mm
Mud	weight % <63 microns
Ntot	weight %nitrogen
Ctot	weight %carbon (organic and inorganic forms)
CorgLOI	weight %carbon determined by loss on ignition
Hg	ug/g of mercury
SampleID	sample label for site and container
#analyzed	the number of samples analyzed for the site by XRF, averaged data reported in table
Si	% silicon
Al	% aluminum
Fe	% iron
Mn	% manganese
Mg	% magnesium
Ca	% calcium
Na	% sodium
K	% potassium
Ti	% titanium
Cr	ug/g chromium
Cu	ug/g copper
Ni	ug/g nickel
Pb	ug/g lead
Sr	ug/g strontium
V	ug/g vanadium
Zn	ug/g zinc

METHODS:

For more detailed information on METHODS, see accompanying Methods documentation

#### LOCATION INFORMATION:

Samples collected in 2003 (BSP ID's): Trimble GeoExplorerII with Rangepole Antenna  
Samples collected in 2005 (SR ID's) and 2006 (LB ID's): Garmin 172 Chart Plotter

#### DEPTH INFORMATION:

The water depths reported are referenced to the long-term mean high tide at Connimicut Point. Because samples were collected on different days and under a variety of tide stages, water depths from the boat's depth recorder were adjusted to mean high tide using the time and date of sampling from the log sheets and tidal data collected from the PORTS site at Connimicut Point.

#### MAPS:

- 1) Location Map of all 363 stations in Table 1. The sites used for chemical analyses in Table 2 are shown as red symbols.
- 2) Property contour maps generated using ESRI ArcMap software. Station symbols are the same as shown on the Location Map. The gridding used for contours was done in ArcMap using 2<sup>nd</sup> order inverse distance weighting for interpolation between nearest 5 neighbors within a 65° angled ellipse 1,524 m wide X 2,743 m long, with no minimum of neighboring data points. The interpolated shape file was converted to a raster file and combined with a blanking file for display. Because of the sparse nature of the sampling in the lower bay, we have less confidence of the gridded values of the data in this area, especially in the deep channels of the East Passage. The contour intervals for the metals bracket the values of the sediment quality criteria of Long et al. (1995), with green colors having values below the ERL, yellow-orange correspond to the ERL-ERM range, and red colors for values above the ERM level.

#### TRANSECT PLOTS:

Plots of trace metals vs. latitude using data from Table 2. Sediment quality criteria (Long et al., 1995) are shown on the plots. The symbols for each bay area are the same as on the Location Map.

#### SEDIMENT QUALITY CRITERIA:

The sediment quality criteria noted on the transect plots are from Long, et al (1995). Concentrations below the ERL (Effects Range-Low) correspond to the "no effects range," concentrations between the ERL and ERM (Effects Range-Median) correspond to the "possible effects range," and concentrations above the ERM correspond to the "probable effects range."

Ref: Long, E.R., D.D. Macdonald, S.L. Smith, and F.D. Calder, 1995. Incidence of adverse biological effects within ranges of chemical concentrations in marine estuarine sediments, *Environmental Management*, 19:81–97.

#### ACKNOWLEDGEMENTS:

The samples used in this study were collected during the summers of 2003 (BSP labeled samples), 2005 (SR labeled samples) and 2006 (LB labeled samples) during a total of 14 field days. We used Brown's MariTime Skiff, the "Bear Cub", for field operations and

typically had a crew of 4-5 individuals to collect the grab samples and perform field subsampling for chemical, biological, and physical property analyses, as well as sieving remaining material at 2 mm and retaining the >2 mm fraction for biological studies.

We would like to acknowledge the efforts for of the following individuals associated with this project:

**Field Work:**

David Murray	Warren Prell
Joe Orchardo	Steve Clemens
Cate Brown	Kiera Heggie
Zak Fjeldheim	Emily Saarman
Monica Skeldon	Emily Washington
Carlos Rincon	Don Pryor
Kira Lawrence	Lauren Seckel
Lynn Carlson	Novem Auyeung
Jeff Albert	Sally Walkerman

**Lab work**

Cate Brown	Kiera Heggie
Zak Fjeldheim	Emily Saarman
Monica Skeldon	Emily Washington
Carlos Rincon	April Martin

**Data Processing and Maps**

David Murray	Emily Saarman
Lynn Carlson	Philip Howell
Carlos Rincon	Allan Just

**Funding**

**Field and Laboratory effort:**

- Brown/Office of VP for Research Seed Funds: “Understanding Eutrophication and Hypoxia in Narragansett Bay: An Initiative to Strengthen Brown’ Estuarine Research Efforts”, W.Prell, PI
- NOAA/URI SeaGrant Award NA040AR4170062/NA16RG1057, “Benthic Foraminifer Faunas as a Proxy for Mapping the Spatial and Temporal Extent of Hypoxia in Narragansett Bay”, W.L.Prell-PI
- Brown University, Department of Geological Sciences Oceanography Account
- NOAA/URI Award, URI-020606/0000848, “Modeling Tools to Predict Hypoxia/Anoxia in Upper Narragansett Bay”, subcontract to Brown, W.L. Prell-PI

**Data Synthesis:**

- Brown/ Office of VP for Research Seed Funds: “Understanding Eutrophication and Hypoxia in Narragansett Bay: An Initiative to Strengthen Brown’ Estuarine Research Efforts”, W.Prell, PI

- NOAA/URI Award, URI-020606/0000848, “Modeling Tools to Predict Hypoxia/Anoxia in Upper Narragansett Bay”, subcontract to Brown, W.L. Prell-PI
- NE Interstate Water Pollution Control Commission with support from the U.S. Environmental Protection Agency, PO6756 to D.W. Murray

## Methods

### Sample Location:

The sampling scheme for this project was based on a grid of boxes and when possible collecting a sample from the center of each grid. Grid sizes in the Providence and Seekonk Rivers were approximately 400 x 400 m and approximately 800 m x 800 m from the mouth of the Providence River to Mid-Prudence Island. For the Lower Bay sites south of Mid-Prudence Island, a random selection of grids was used to obtain a large spatial coverage and avoid the deep channel locations. Sites were located with GPS navigation units.

### Sample Collection:

The surface grabs were collected with a Ponar Grab sampler typically collecting between 0.5 and 1.5 L of wet sediment and sampling the top 5-10 cm of the surface sediments. Approximately 150 ml of this grab was placed in a plastic container and the remainder was wet sieved at 2mm. The >2mm fraction was collected in a plastic whirlpak bag and later stored frozen for future biological studies. The subsamples in plastic containers were brought back to the lab, stored in a freezer, then freeze dried. The freeze-dried samples were made available for the analyses reported in this study.

### Sample Processing:

Samples were weighed to obtain a total sample weight. Samples were then dried-sieved at 2 mm and the >2mm fraction (gravel) was weighed and stored in separate bags. Most of this material was of biological origin (e.g. shells, worms, plant debris) and very little was of lithic origin. The <2 mm fraction was returned to the plastic container and subsampled as needed. Approximately 15 g of dried sample was ground to a fine powder using a SPEX CertiPrep Dual Mixer Mill.

### Grain Size:

The weight fraction of gravel sized particles was determined as the weight >2 mm divided by the total sample weight. The weight percent sand (63 um- 2 mm) and mud (<63 um) were determined on a 5-15 g subsample of the <2 mm fraction that was wet-sieved for benthic foraminifera census studies. Initially, samples were dry-sieved, however because of clumping, especially on the >63 fraction, the separation between sand (>63 um) and mud (silt and clay <63 um) was not reliable. Wet sieving ameliorated the issue of clumping and these data were used in the calculations of %Sand and %Mud in this study. Subsamples for the foram studies were weighed, placed in a beaker with water, soaked overnight, and wet sieved at 63 um. The >63 um fraction was retained, placed in a beaker, dried, and weighed. The weight >63 um divided by the total subsample weight is the weight fraction of sand sized particles <2 mm. The difference between the total weight and the sand fraction weight, divided by the total weight is the weight fraction of mud (silt and clay) sized particles <2 mm. These data were divided by

weight fraction <2 mm [(100-%gravel)/100] to determine the %mud and %sand of the total sample (%mud = 100\*wt fraction <63 um/weight fraction <2mm).

#### Corg-Loss on Ignition (LOI):

A 1 g subsample of the dried unground sample was placed in ceramic crucibles. These crucibles and samples were combusted to 550 C for 4 hours. The crucibles were transferred to a glass desiccator and allowed to cool to room temperature before weighing. The weight loss after combustion is attributed to organic matter. Corg-LOI = 2.5 divided by the %weight loss due to combustion/ignition at 550 C, where 2.5 is the weight ratio between organic matter and organic carbon. This weight ratio is higher than what is commonly used, but seems appropriate for this data set, comparing the Ctot and Corg-LOI measurements.

#### Ctot and Ntot:

The data are reported at weight percentages for total (organic and inorganic forms) of carbon nitrogen. Total carbon and nitrogen concentrations were determined on a 8-10 mg aliquot of the dried and ground subsample using a CE Instruments NC2100 Elemental Analyzer in the Environmental Chemistry Laboratory at Brown University. Acetanilide and Cyclohexanone-2,4,Dinitrophenyl-hydrazone are used as calibration standards and certified reference material NIST2711 (Montana soil) and NIST1575 (Pine needles) were used to evaluate the data quality. In each run we included triplicate analyses of the calibration standards analyzed as unknowns and each of the reference materials. In addition at least 20% of the samples had either duplicate or triplicate analyses. The data reported in this study are averages of these analyses. Information on the QA/QC evaluation can be obtained from David Murray at Brown University ([dmurray@brown.edu](mailto:dmurray@brown.edu)).

#### Mercury (Hg ppm):

A subset of 111 spatially distributed samples was selected for mercury analysis. The data are reported as mercury concentrations in part per million (ppm). Approximately 200 mg of the dried and ground samples were analyzed on a Milestone DMA-80 direct mercury analyzer in the Environmental Chemistry Facilities at Brown University. Liquid mercury standards were used to calibrate the instrument and certified reference material NIST2711 (Montana Soil), NIST1575 (Pine Needles), and NRCC- PACS1 (Marine Sediment) and were used to evaluate the data quality. Approximately 10% of the samples had either duplicate or triplicate analyses. Information on the QA/QC evaluation can be obtained from David Murray at Brown University ([dmurray@brown.edu](mailto:dmurray@brown.edu)).

#### XRF Chemical Data:

A subset of 111 spatially distributed samples was selected for chemical analysis using X-Ray fluorescence spectrometry (XRF). 5 g of dried and ground sample was combined with 0.75 g copolywax as a binder and pressed into a pellet at 10 tons of pressure.

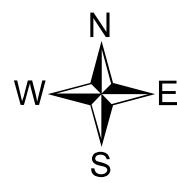
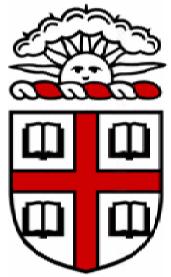
Samples were analyzed on a Phillips PW1480 wavelength dispersive sequential diffractometer. Omega Data Systems UniQuant 5 software was used to convert intensities to elemental concentrations. Seven pellets of Certified reference material (see Methodstable 1) were analyzed along with the samples from this study and used to adjust the UniQuant determined concentrations to provide more accurate data (see Methodstable 2). In general these adjustments were less than 10% of the concentrations. Approximately 20% of the samples had either duplicate or triplicate analyses and the data reported are averages of these analyses. Information on the QA/QC evaluation can be obtained from David Murray at Brown University ([dmurray@brown.edu](mailto:dmurray@brown.edu)).

Agency	SRM	ID	Si	Al	Fe	Na	Mg	K	Ca	Ti	Mn	Cr	Cu	Ni	Pb	Sr	V	Zn	
NIST	2711	Measured	ms1	31.05	6.60	2.83	1.02	1.28	2.40	2.88	0.298	0.063	52	122	16	1126	234	69	389
NIST	2711	Measured	ms1	31.04	6.60	2.85	1.01	1.27	2.39	2.89	0.301	0.064	44	116	20	1146	226	75	403
NIST	2711	Measured	ms1	31.03	6.56	2.89	1.05	1.24	2.42	2.90	0.306	0.064	16	130	15	1187	238	61	392
NIST	2711	Measured	ms1	30.95	6.70	2.85	1.04	1.21	2.41	2.90	0.299	0.065	39	110	16	1146	220	62	388
NIST	2711	Measured	ms1	30.89	6.72	2.87	1.04	1.23	2.42	2.92	0.299	0.064	50	104	19	1157	237	63	389
NIST	2711	Average	ms1	30.99	6.64	2.86	1.03	1.24	2.40	2.90	0.301	0.064	40	116	17	1153	231	66	392
NIST	2711	Certified		30.44	6.53	2.89	1.14	1.05	2.45	2.88	0.306	0.064	47	114	21	1162	245	82	350
NIST	2711	Measured	mt2711_kr	30.99	6.50	2.91	1.11	1.25	2.42	2.91	0.307	0.066	38	118	19	1197	244	69	412
NIST	2711	Measured	mt2711_kr	30.98	6.50	2.96	1.06	1.21	2.43	2.94	0.315	0.068	16	123	18	1238	242	65	419
NIST	2711	Measured	mt2711_kr	30.93	6.58	2.92	1.08	1.23	2.42	2.89	0.312	0.069	45	129	17	1187	238	68	392
NIST	2711	Measured	mt2711_kr	30.88	6.61	2.92	1.10	1.23	2.42	2.92	0.308	0.067	18	133	15	1207	243	78	419
NIST	2711	Measured	mt2711_kr	30.93	6.57	2.94	1.07	1.22	2.42	2.92	0.311	0.066	36	117	17	1197	235	69	423
NIST	2711	Average	mt2711_kr	30.94	6.55	2.93	1.09	1.23	2.42	2.92	0.310	0.067	31	124	17	1205	240	69	413
NIST	2711	Certified		30.44	6.53	2.89	1.14	1.05	2.45	2.88	0.306	0.064	47	114	21	1162	245	82	350
NIST	1646a	Measured	1646a_kr	39.96	2.40	1.90	1.01	0.48	0.87	0.52	0.431	0.018	24	BD	19	BD	65	35	BD
NIST	1646a	Measured	1646a_kr	39.91	2.39	1.93	1.03	0.48	0.88	0.53	0.432	0.020	45	BD	14	BD	65	32	BD
NIST	1646a	Measured	1646a_kr	39.93	2.39	1.93	0.99	0.49	0.87	0.52	0.432	0.020	38	BD	19	BD	70	31	BD
NIST	1646a	Measured	1646a_kr	39.90	2.42	1.92	1.04	0.49	0.87	0.52	0.430	0.020	32	BD	19	BD	60	36	BD
NIST	1646a	Average	1646a_kr	39.92	2.40	1.92	1.01	0.48	0.87	0.52	0.431	0.019	35	BD	17	BD	65	34	BD
NIST	1646a	Certified		40.00	2.30	2.01	0.74	0.39	0.86	0.52	0.456	0.023	41	10	23	12	45	49	
USGS	MAG1	Measured	mag1_kr	25.48	8.18	5.07	2.34	1.84	2.95	0.94	0.432	0.075	83	23	57	26	154	136	134
USGS	MAG1	Measured	mag1_kr	25.44	8.18	5.07	2.33	1.87	2.95	0.95	0.436	0.077	96	24	51	BD	157	130	128
USGS	MAG1	Measured	mag1_kr	25.54	8.27	5.05	2.12	1.88	2.95	0.95	0.430	0.079	90	38	47	24	154	142	124
USGS	MAG1	Measured	mag1_kr	25.62	8.31	5.08	2.04	1.89	2.93	0.95	0.433	0.079	89	30	60	25	152	141	141
USGS	MAG1	Measured	mag1_kr	25.59	8.36	5.07	1.95	1.89	2.97	0.95	0.434	0.079	101	BD	46	BD	150	136	106
USGS	MAG1	Average	mag1_kr	25.54	8.26	5.07	2.16	1.87	2.95	0.95	0.433	0.078	92	29	52	25	153	137	127
USGS	MAG1	Certified		23.54	8.66	4.76	2.84	1.81	2.95	0.98	0.450	0.076	97	30	53	24	146	140	130
USGS	SCO1	Measured	sco1_kr	30.01	7.86	3.85	0.66	1.62	2.31	1.93	0.376	0.041	73	24	36	33	177	126	84
USGS	SCO1	Measured	sco1_kr	29.96	7.87	3.90	0.64	1.63	2.30	1.94	0.374	0.042	69	26	25	30	177	135	106
USGS	SCO1	Measured	sco1_kr	29.94	7.92	3.86	0.65	1.63	2.30	1.94	0.377	0.041	61	20	20	BD	173	134	102
USGS	SCO1	Measured	sco1_kr	29.87	7.95	3.90	0.64	1.61	2.31	1.96	0.379	0.041	77	22	22	32	176	137	96
USGS	SCO1	Average	sco1_kr	29.94	7.90	3.88	0.65	1.62	2.31	1.94	0.377	0.041	70	23	26	32	176	133	97
USGS	SCO1	Certified		29.35	7.24	3.60	0.67	1.64	2.30	1.87	0.376	0.041	68	29	27	31	174	131	103
USGS	SDO1	Measured	sdo1_kr	24.15	6.84	6.38	0.34	0.94	2.82	0.73	0.430	0.032	58	53	97	BD	76	168	BD
USGS	SDO1	Measured	sdo1_kr	22.83	6.53	5.73	0.34	0.90	2.56	0.67	0.387	0.029	46	49	86	BD	69	154	BD
USGS	SDO1	Measured	sdo1_kr	22.78	6.59	5.71	0.33	0.90	2.54	0.65	0.389	0.027	52	35	98	BD	63	151	43
USGS	SDO1	Measured	sdo1_kr	22.66	6.63	5.74	0.34	0.90	2.54	0.66	0.389	0.028	53	51	93	BD	69	153	BD
USGS	SDO1	Average	sdo1_kr	23.10	6.65	5.89	0.34	0.91	2.62	0.68	0.399	0.029	52	47	94	BD	69	157	43
USGS	SDO1	Certified		23.04	6.49	6.54	0.28	0.93	2.78	0.75	0.426	0.033	66	60	100	28	75	160	64

Agency	SRM		ID	Si	Al	Fe	Na	Mg	K	Ca	Ti	Mn	Cr	Cu	Ni	Pb	Sr	V	Zn
USGS	SGR1	Measured	sgr1_kr	13.12	3.15	2.05	2.40	2.31	1.34	6.00	0.168	0.027	38	70	25	42	413	131	80
USGS	SGR1	Measured	sgr1_kr	13.09	3.16	2.07	2.41	2.29	1.35	6.00	0.172	0.025	BD	76	29	41	421	120	88
USGS	SGR1	Measured	sgr1_kr	13.08	3.14	2.08	2.39	2.34	1.35	6.01	0.172	0.027	21	77	26	38	426	126	100
USGS	SGR1	Measured	sgr1_kr	12.87	3.12	2.16	2.48	2.24	1.37	6.14	0.176	0.027	BD	65	36	41	428	125	95
USGS	SGR1	Average	sgr1_kr	13.04	3.14	2.09	2.42	2.30	1.35	6.04	0.172	0.027	30	72	29	40	422	125	91
USGS	SGR1	Certified		13.20	3.45	2.12	2.22	2.68	1.38	5.99	0.158	0.026	30	66	29	38	420	128	74
NRC-INMS	BCSS1	Measured	bcss1_kr	28.56	6.64	3.85	2.41	1.73	2.06	0.64	0.484	0.025	133	BD	63	30	114	105	108
NRC-INMS	BCSS1	Certified		30.90	6.26	3.29	2.02	1.47	1.80	0.54	0.440	0.023	123	19	55	23	96	93	119
NRC-INMS	PACS1	Measured	pacs1_kr	25.84	5.75	4.69	3.22	1.51	1.22	1.80	0.433	0.044	116	451	46	345	271	127	801
NRC-INMS	PACS1	Certified		26.04	6.47	4.87	3.26	1.45	1.25	2.09	0.421	0.046	113	452	44	404	277	93	824
NRC-INMS	MESS1	Measured	mess1_kr	27.44	8.46	4.36	1.20	1.66	2.54	1.51	0.430	0.035	103	39	53	BD	124	239	168
NRC-INMS	MESS1	Certified		27.77	8.57	4.35								49	22	125	252	172	

## Correction Factors

Element	Slope	Intercept	R2
Na	0.9506	0	0.9116
Mg	0.9247	0	0.9183
Si	1.0320	0	0.9755
Al	0.8286	0	0.9604
K	0.8626	0	0.9763
Ca	0.8293	0	0.9955
Ti	0.9100	0	0.9466
Mn	0.8607	0	0.9820
Fe	0.8836	0	0.9442
Ni	0.9268	0	0.9673
Cu	0.9399	0	0.9978
Zn	1.0760	20.628	0.9910
Sr	0.8174	0	0.9939
Pb	1.0146	0	0.9968
V	0.9045	-20.085	0.9354
Cr	0.8744	0	0.9389



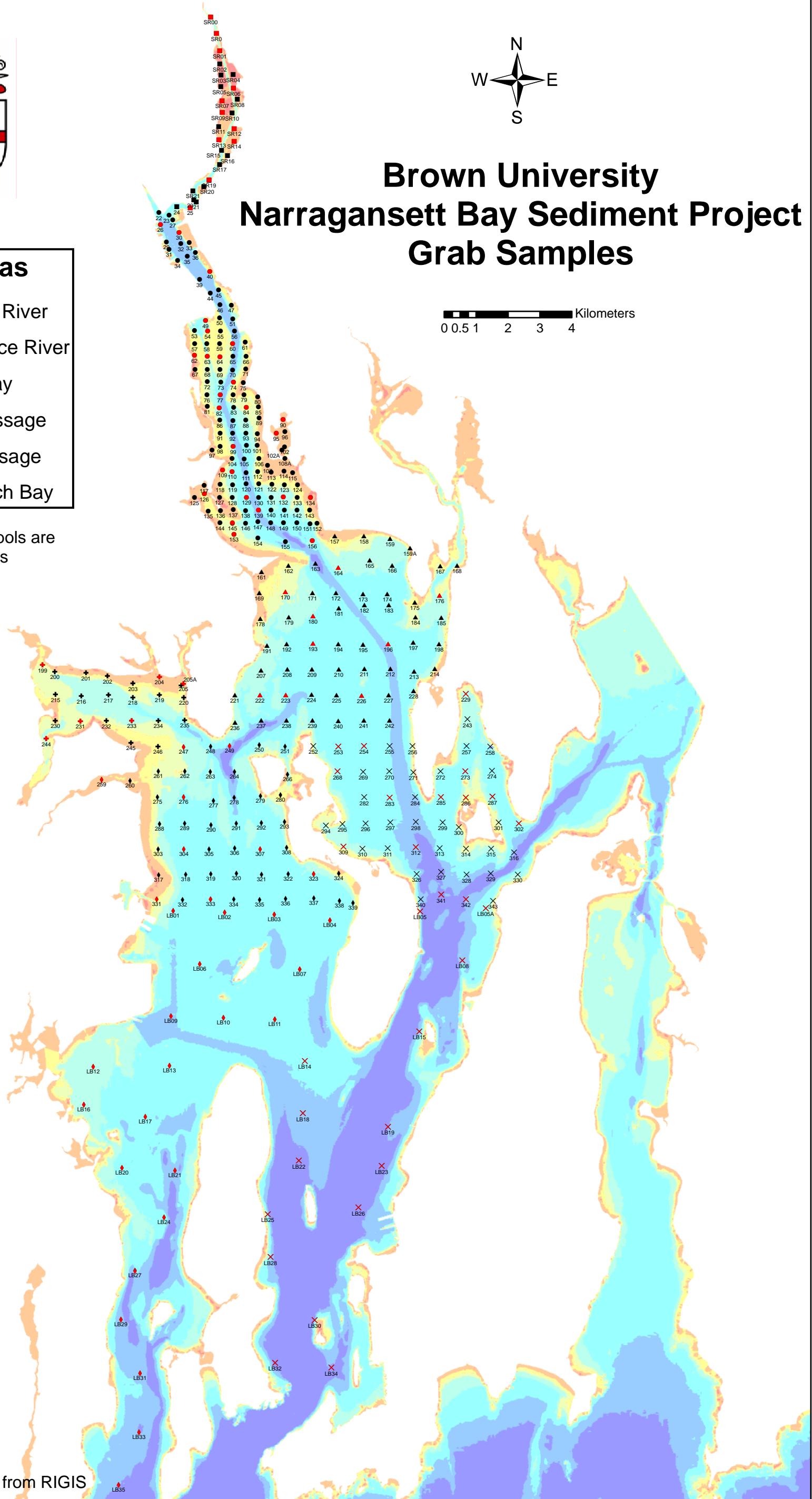
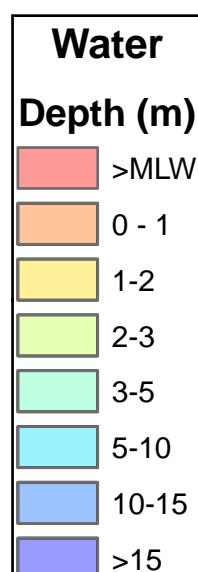
# Brown University Narragansett Bay Sediment Project Grab Samples

## Bay Areas

- Seekonk River
- Providence River
- ▲ Upper Bay
- ♦ West Passage
- × East Passage
- + Greenwich Bay

Red colored symbols are chemistry samples

0 0.5 1 2 3 4 Kilometers



Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenoformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Chem
SR	1	SR00	SR00	41.87011	-71.38142	7/28/05	72805	2.4	0.5	58.3	41.2	0.33	5.07	5.4	1
SR	2	SR0	SR0	41.86538	-71.37922	7/28/05	72805	3.8	1.6	50.5	47.9	0.49	7.00	6.6	1
SR	3	SR01	SR01	41.86054	-71.37794	7/28/05	72805	2.9	1.4	19.6	79.0	0.57	7.61	9.4	1
SR	4	SR02	SR02	41.85674	-71.37795	7/28/05	72805	0.9	2.5	68.3	29.2	0.24	3.57	3.0	0
SR	5	SR03	SR03	41.85362	-71.37753	7/28/05	72805	1.3	3.6	55.5	40.9	0.25	4.83	3.6	0
SR	6	SR04	SR04	41.85375	-71.37294	7/28/05	72805	1.8	19.3	61.3	19.4	0.24	3.90	2.8	0
SR	7	SR05	SR05	41.85041	-71.37755	7/28/05	72805	2.3	1.4	15.0	83.6	0.41	6.82	6.0	0
SR	8	SR06	SR06	41.84996	-71.37282	7/28/05	72805	1.8	5.1	80.5	14.4	0.12	2.11	2.1	1
SR	9	SR07	SR07	41.84643	-71.37708	7/28/05	72805	2.1	1.3	22.3	76.4	0.46	7.84	7.0	1
SR	10	SR08	SR08	41.84680	-71.37133	7/28/05	72805	2.0	1.9	63.7	34.4	0.19	3.76	3.0	0
SR	11	SR09	SR09	41.84311	-71.37707	7/28/05	72805	2.4	3.4	25.7	70.9	0.45	7.29	6.7	1
SR	12	SR10	SR10	41.84290	-71.37332	7/28/05	72805	2.0	2.0	75.8	22.2	0.12	2.60	2.4	0
SR	13	SR11	SR11	41.83911	-71.37840	7/28/05	72805	1.9	2.2	68.6	29.2	0.14	2.32	2.2	0
SR	14	SR12	SR12	41.83848	-71.37254	7/28/05	72805	2.6	3.2	22.8	74.0	0.41	6.19	5.7	1
SR	15	SR13	SR13	41.83532	-71.37831	7/28/05	72805	2.3	6.5	83.9	9.6	0.06	1.20	1.3	1
SR	16	SR14	SR14	41.83495	-71.37259	7/28/05	72805	2.3	3.2	57.1	39.7	0.21	4.13	3.2	1
SR	17	SR15	SR15	41.83244	-71.37735	7/28/05	72805	6.5	5.6	55.8	38.6	0.33	5.72	5.3	0
SR	18	SR16	SR16	41.83086	-71.37510	7/28/05	72805	2.4	6.0	72.2	21.8	0.15	3.28	2.6	0
SR	19	SR17	SR17	41.82842	-71.37807	7/28/05	72805	5.6	5.0	80.6	14.4	0.14	3.16	2.3	0
SR	20	SR19	SR19	41.82396	-71.38209	7/28/05	72805	7.3	3.1	77.5	19.4	0.20	4.22	3.0	1
SR	21	SR20	SR20	41.82215	-71.38409	7/28/05	72805	2.8	7.7	54.7	37.6	0.31	5.14	4.2	0
SR	22	SR21	SR21	41.82095	-71.38816	7/28/05	72805	2.2	24.4	60.8	14.8	0.21	5.79	3.2	0
SR	23	BSP20	20	41.81840	-71.38783	9/30/03	93003	5.3	20.0	44.6	35.4	0.46	8.94	5.1	0
SR	24	BSP21	21	41.81785	-71.38692	9/30/03	93003	7.0	45.1	29.5	25.4	0.44	6.97	4.4	0
PR	25	BSP22	22	41.81478	-71.40102	9/30/03	93003	8.3	0.0	14.6	85.4	0.31	4.86	4.7	0
PR	26	BSP23	23	41.81403	-71.39722	9/30/03	93003	5.0	17.7	16.5	65.8	0.44	6.26	6.3	0
SR	27	BSP24	24	41.81640	-71.39425	9/30/03	93003	6.8	0.0	15.9	84.1	0.44	6.17	5.8	0
SR	28	BSP25	25	41.81618	-71.38923	9/30/03	93003	8.4	51.1	18.7	30.2	0.32	8.14	4.6	1
PR	29	BSP26	26	41.81142	-71.40045	9/30/03	93003	14.3	0.0	12.1	87.9	0.37	4.83	4.4	1
PR	30	BSP27	27	41.81270	-71.39577	9/30/03	93003	5.7	0.0	20.9	79.1	0.42	6.05	5.5	0
PR	31	BSP29	29	41.80650	-71.39818	9/30/03	93003	4.3	39.0	10.4	50.7	0.13	1.96	3.9	0
PR	32	BSP30	30	41.80918	-71.39340	9/30/03	93003	12.2	0.0	7.7	92.3	0.35	5.55	5.0	1
PR	33	BSP31	31	41.80442	-71.39718	9/30/03	93003	3.5	4.0	77.4	18.6	0.05	1.42	1.3	0
PR	34	BSP32	32	41.80600	-71.39272	9/30/03	93003	12.8	0.0	10.2	89.8	0.24	3.23	3.3	0
PR	35	BSP33	33	41.80633	-71.38957	9/30/03	93003	2.6	3.4	81.1	15.5	0.04	1.20	1.2	0
PR	36	BSP34	34	41.80127	-71.39397	9/30/03	93003	3.0	0.0	22.9	77.1	0.25	2.53	2.3	0
PR	37	BSP35	35	41.80240	-71.39035	9/30/03	93003	14.0	0.0	19.3	80.7	0.46	4.73	4.8	0
PR	38	BSP36	36	41.80355	-71.38725	9/30/03	93003	2.7	20.2	48.2	31.6	0.17	2.73	1.9	0
PR	39	BSP39	39	41.79587	-71.38573	9/30/03	93003	14.0	5.6	25.7	68.8	0.47	5.34	6.1	0
PR	40	BSP40	40	41.79818	-71.38182	9/30/03	93003	3.0	4.2	65.7	30.1	0.19	2.48	2.1	1
PR	41	BSP44	44	41.79198	-71.38168	9/30/03	93003	15.0	0.0	15.0	85.0	0.51	4.84	5.1	0
PR	42	BSP45	45	41.79288	-71.37853	9/30/03	93003	8.0	0.0	15.0	85.0	0.50	5.23	4.9	0
PR	43	BSP46	46	41.78868	-71.37800	7/15/03	71503	14.0	5.2	27.5	67.3	0.30	3.77	4.8	0
PR	44	BSP47	47	41.78863	-71.37373	7/15/03	71503	4.2	9.0	75.3	15.7	0.44	6.72	5.9	0
PR	45	BSP49	49	41.78420	-71.38347	7/15/03	71503	6.4	0.0	2.0	98.0	0.58	5.39	7.0	1

Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenoformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Chem
PR	46	BSP50	50	41.78507	-71.37820	7/15/03	71503	4.2	36.6	31.9	31.5	0.29	3.64	4.2	0
PR	47	BSP51	51	41.78475	-71.37320	7/15/03	71503	8.9	3.2	33.7	63.1	0.22	3.00	2.9	0
PR	48	BSP53	53	41.78145	-71.38768	7/15/03	71503	5.6	1.1	18.8	80.1	0.43	4.40	7.3	0
PR	49	BSP54	54	41.78128	-71.38270	7/15/03	71503	5.3	0.0	13.0	87.0	0.52	4.61	5.5	1
PR	50	BSP55	55	41.78127	-71.37783	7/15/03	71503	3.9	5.4	34.1	60.5	0.30	3.89	4.5	0
PR	51	BSP56	56	41.78122	-71.37257	7/15/03	71503	14.7	2.5	21.9	75.6	0.36	3.46	4.3	0
PR	52	BSP57	57	41.77767	-71.38760	7/15/03	71503	3.6	4.3	39.8	55.9	0.25	2.83	3.0	0
PR	53	BSP58	58	41.77767	-71.38305	7/15/03	71503	4.0	20.7	26.3	53.0	0.39	3.84	3.8	0
PR	54	BSP59	59	41.77772	-71.37822	7/15/03	71503	3.6	52.1	23.6	24.3	0.29	7.80	3.9	0
PR	55	BSP60	60	41.77773	-71.37325	7/15/03	71503	9.6	0.5	3.7	95.8	0.46	4.18	5.5	1
PR	56	BSP61	61	41.77815	-71.36853	7/15/03	71503	4.1	6.0	23.9	70.2	0.44	5.16	5.1	0
PR	57	BSP62	62	41.77445	-71.38765	7/15/03	71503	3.5	7.3	72.1	20.6	0.06	1.22	1.3	1
PR	58	BSP63	63	41.77412	-71.38280	7/15/03	71503	6.3	2.0	2.4	95.6	0.52	5.04	5.8	1
PR	59	BSP64	64	41.77403	-71.37805	7/15/03	71503	4.2	11.3	58.3	30.3	0.20	3.07	2.7	1
PR	60	BSP65	65	41.77407	-71.37315	7/15/03	71503	11.0	0.0	15.7	84.3	0.48	4.40	5.1	0
PR	61	BSP66	66	41.77412	-71.36818	7/15/03	71503	4.4	11.9	48.7	39.4	0.35	2.79	2.8	0
PR	62	BSP67	67	41.77047	-71.38745	7/15/03	71503	2.5	0.1	97.3	2.5	0.03	0.30	0.4	0
PR	63	BSP68	68	41.77050	-71.38280	7/15/03	71503	5.0	4.0	23.8	72.2	0.32	4.21	4.4	0
PR	64	BSP69	69	41.77040	-71.37805	7/15/03	71503	4.6	2.8	26.8	70.4	0.37	4.01	4.1	0
PR	65	BSP70	70	41.77033	-71.37327	7/15/03	71503	16.1	1.1	20.7	78.2	0.35	3.72	4.3	0
PR	66	BSP71	71	41.77058	-71.36837	7/15/03	71503	3.0	0.0	98.3	1.7	0.02	0.14	0.4	0
PR	67	BSP72	72	41.76695	-71.38287	7/15/03	71503	4.9	5.1	30.3	64.6	0.39	5.34	5.0	0
PR	68	BSP73	73	41.76678	-71.37772	7/15/03	71503	6.2	22.3	28.7	49.0	0.57	4.05	4.3	0
PR	69	BSP74	74	41.76682	-71.37295	7/15/03	71503	5.1	0.9	82.4	16.7	0.06	1.26	1.1	1
PR	70	BSP75	75	41.76663	-71.36928	7/15/03	71503	2.7	1.4	91.8	6.8	0.36	4.18	0.5	0
PR	71	BSP76	76	41.76323	-71.38302	7/15/03	71503	4.6	5.7	33.8	60.4	0.38	4.14	5.2	0
PR	72	BSP77	77	41.76323	-71.37797	7/15/03	71503	13.3	0.2	5.4	94.5	0.42	4.01	4.9	1
PR	73	BSP78	78	41.76325	-71.37310	7/15/03	71503	3.4	1.0	97.1	1.9	0.03	0.25	0.4	0
PR	74	BSP79	79	41.76333	-71.36902	7/15/03	71503	2.7	1.0	66.8	32.2	0.16	1.79	1.9	0
PR	75	BSP80	80	41.76268	-71.36385	7/15/03	71503	2.5	10.3	89.8	0.0	0.04	0.38	0.7	0
PR	76	BSP81	81	41.75998	-71.38287	7/10/03	71003	2.9	22.0	65.3	12.7	0.25	6.28	5.2	0
PR	77	BSP82	82	41.75952	-71.37838	7/10/03	71003	6.6	3.8	19.8	76.5	0.45	4.71	5.5	1
PR	78	BSP83	83	41.75975	-71.37288	7/10/03	71003	5.4	33.2	23.5	43.3	0.43	4.40	4.3	0
PR	79	BSP84	84	41.75973	-71.36820	7/10/03	71003	4.0	6.6	47.2	46.3	0.23	2.79	3.2	1
PR	80	BSP85	85	41.75983	-71.36357	7/10/03	71003	3.2	57.6	24.5	18.0	0.23	2.76	2.9	0
PR	81	BSP86	86	41.75612	-71.37815	7/10/03	71003	4.9	0.1	37.1	62.8	0.40	4.40	4.4	0
PR	82	BSP87	87	41.75593	-71.37315	7/10/03	71003	7.9	8.6	29.7	61.7	0.35	4.08	4.4	0
PR	83	BSP88	88	41.75610	-71.36835	7/10/03	71003	5.1	15.7	34.4	49.9	0.32	4.04	4.0	0
PR	84	BSP89	89	41.75672	-71.36333	7/10/03	71003	1.6	0.2	97.6	2.2	0.03	0.18	0.3	0
PR	85	BSP90	90	41.75618	-71.35428	7/15/03	71503	3.7	0.6	69.4	30.0	0.18	2.37	2.3	1
PR	86	BSP91	91	41.75245	-71.37802	7/10/03	71003	3.4	14.4	75.1	10.5	0.09	0.73	0.7	0
PR	87	BSP92	92	41.75237	-71.37337	7/10/03	71003	15.3	0.6	19.7	79.6	0.40	3.77	4.6	0
PR	88	BSP93	93	41.75243	-71.36830	7/10/03	71003	6.5	9.1	38.0	52.9	0.36	4.13	4.1	0
PR	89	BSP94	94	41.75220	-71.36403	7/10/03	71003	2.8	0.2	99.3	0.5	0.03	0.25	0.4	0
PR	90	BSP95	95	41.75233	-71.35688	7/10/03	71003	3.4	6.5	35.2	58.3	0.62	3.45	4.0	1

Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenoformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Chem
PR	91	BSP96	96	41.75282	-71.35360	7/10/03	71003	2.7	1.1	31.4	67.4	0.64	5.49	5.8	0
PR	92	BSP97	97	41.74763	-71.38107	7/10/03	71003	2.9	2.4	59.7	37.9	0.10	1.06	1.1	0
PR	93	BSP98	98	41.74872	-71.37805	7/10/03	71003	3.3	1.5	82.9	15.6	0.07	0.83	0.9	0
PR	94	BSP99	99	41.74865	-71.37310	7/10/03	71003	7.3	0.0	7.3	92.7	0.33	3.41	4.0	1
PR	95	BSP100	100	41.74892	-71.36813	7/10/03	71003	7.3	8.3	22.9	68.8	0.40	3.68	4.3	0
PR	96	BSP101	101	41.74890	-71.36410	7/10/03	71003	3.3	0.0	97.8	2.2	0.04	0.24	0.5	0
PR	97	BSP102	102	41.74852	-71.35372	7/10/03	71003	3.1	38.6	56.8	4.6	0.14	1.81	1.2	0
PR	98	BSP102A	102A	41.74753	-71.35473	7/10/03	71003	3.4	3.7	62.3	34.0	0.61	4.79	4.4	0
PR	99	BSP104	104	41.74520	-71.37352	7/10/03	71003	2.4	5.9	91.7	2.4	0.03	0.19	0.4	0
PR	100	BSP105	105	41.74510	-71.36897	7/10/03	71003	12.2	3.4	45.2	51.4	0.23	2.21	2.3	0
PR	101	BSP106	106	41.74518	-71.36342	7/10/03	71003	3.5	3.4	92.3	4.3	0.05	0.48	0.6	0
PR	102	BSP107	107	41.74327	-71.36018	7/10/03	71003	2.0	23.1	68.6	8.3	0.07	1.03	0.6	0
PR	103	BSP108A	108A	41.74528	-71.35366	7/10/03	71003	2.5	1.1	95.8	3.1	0.05	0.23	1.9	0
PR	104	BSP109	109	41.74198	-71.37712	7/10/03	71003	4.1	35.4	55.5	9.1	0.19	0.94	1.2	1
PR	105	BSP110	110	41.74153	-71.37352	7/10/03	71003	6.3	9.2	60.7	30.1	0.22	2.39	3.7	1
PR	106	BSP111	111	41.74118	-71.36830	7/10/03	71003	15.4	5.9	60.3	33.8	0.17	1.61	2.2	0
PR	107	BSP112	112	41.74152	-71.36390	7/10/03	71003	3.3	12.0	85.5	2.5	0.05	1.12	0.4	0
PR	108	BSP113	113	41.74135	-71.35877	7/10/03	71003	2.6	6.8	91.3	2.0	0.04	0.41	0.4	0
PR	109	BSP114	114	41.74168	-71.35396	7/10/03	71003	2.5	4.2	94.4	1.4	0.03	0.19	0.3	0
PR	110	BSP115	115	41.74117	-71.35073	7/10/03	71003	2.5	7.1	90.0	2.9	0.03	0.21	0.3	0
PR	111	BSP117	117	41.73767	-71.38410	7/8/03	70803	2.6	6.3	23.6	70.1	0.62	5.51	5.6	0
PR	112	BSP118	118	41.73793	-71.37806	7/8/03	70803	2.8	18.3	78.2	3.5	0.06	0.49	0.5	0
PR	113	BSP119	119	41.73783	-71.37334	7/8/03	70803	5.5	10.8	31.3	57.9	0.31	2.97	3.5	0
PR	114	BSP120	120	41.73802	-71.36825	7/8/03	70803	14.0	5.0	30.7	64.4	0.43	4.06	5.5	0
PR	115	BSP121	121	41.73802	-71.36351	7/8/03	70803	2.9	12.2	86.0	1.8	0.11	0.63	0.5	0
PR	116	BSP122	122	41.73796	-71.35856	7/8/03	70803	3.6	40.6	57.7	1.7	0.03	0.35	0.6	0
PR	117	BSP123	123	41.73779	-71.35381	7/8/03	70803	3.5	1.8	96.1	2.0	0.02	0.26	0.4	0
PR	118	BSP124	124	41.73778	-71.34889	7/8/03	70803	2.7	9.0	89.6	1.5	0.04	0.31	0.3	0
PR	119	BSP125	125	41.73417	-71.38777	7/8/03	70803	2.7	29.3	24.1	46.6	0.58	5.27	5.5	0
PR	120	BSP126	126	41.73527	-71.38405	7/8/03	70803	2.7	9.1	32.6	58.4	0.37	3.09	3.4	1
PR	121	BSP127	127	41.73426	-71.37828	7/8/03	70803	2.8	0.3	97.7	2.0	0.01	0.12	0.2	0
PR	122	BSP128	128	41.73418	-71.37350	7/8/03	70803	5.2	9.0	62.9	28.1	0.34	3.92	2.5	0
PR	123	BSP129	129	41.73424	-71.36814	7/8/03	70803	9.9	8.6	35.0	56.4	0.31	3.72	4.5	1
PR	124	BSP130	130	41.73415	-71.36361	7/8/03	70803	8.0	13.7	35.5	50.7	0.39	3.28	3.8	0
PR	125	BSP131	131	41.73424	-71.35883	7/8/03	70803	5.2	56.9	31.5	11.7	0.20	3.00	2.3	0
PR	126	BSP132	132	41.73433	-71.35425	7/8/03	70803	5.6	11.0	63.6	25.4	0.26	2.22	2.3	1
PR	127	BSP133	133	41.73416	-71.34901	7/8/03	70803	3.9	6.1	91.8	2.2	0.05	0.54	0.5	0
PR	128	BSP134	134	41.73417	-71.34404	7/8/03	70803	1.7	7.7	89.6	2.7	0.03	0.17	0.4	1
PR	129	BSP135	135	41.73037	-71.38255	7/8/03	70803	3.0	16.8	39.3	44.0	0.30	2.46	2.0	0
PR	130	BSP136	136	41.73056	-71.37792	7/8/03	70803	1.5	0.0	97.0	3.0	0.02	0.18	0.4	0
PR	131	BSP137	137	41.73074	-71.37310	7/8/03	70803	4.4	4.0	94.5	1.4	0.03	0.23	0.4	0
PR	132	BSP138	138	41.73053	-71.36850	7/8/03	70803	9.1	14.4	23.2	62.4	0.30	4.07	4.5	0
PR	133	BSP139	139	41.73062	-71.36364	7/8/03	70803	9.8	44.6	19.3	36.2	0.37	4.71	4.5	1
PR	134	BSP140	140	41.73065	-71.35893	7/8/03	70803	8.0	22.2	28.9	48.9	0.42	4.55	4.7	0
PR	135	BSP141	141	41.73060	-71.35388	7/8/03	70803	8.0	41.9	24.7	33.5	0.52	4.73	4.8	0

Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenoformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Chem
PR	136	BSP142	142	41.73058	-71.34910	7/8/03	70803	5.7	22.8	72.7	4.6	0.13	1.08	0.8	0
PR	137	BSP143	143	41.73055	-71.34437	7/8/03	70803	3.0	4.9	93.9	1.3	0.04	0.26	0.5	0
PR	138	BSP144	144	41.72700	-71.37818	7/8/03	70803	3.4	25.1	53.1	21.8	0.21	1.71	1.4	0
PR	139	BSP145	145	41.72698	-71.37343	7/8/03	70803	4.3	14.5	64.4	21.1	0.15	1.08	1.0	1
PR	140	BSP146	146	41.72697	-71.36852	7/8/03	70803	6.2	8.9	31.9	59.2	0.36	3.54	3.2	0
PR	141	BSP147	147	41.72730	-71.36388	7/8/03	70803	10.6	0.4	18.9	80.7	0.44	3.82	5.0	0
PR	142	BSP148	148	41.72700	-71.35905	7/8/03	70803	13.9	6.4	34.4	59.2	0.39	3.52	4.7	0
PR	143	BSP149	149	41.72702	-71.35420	7/8/03	70803	8.8	7.0	37.6	55.4	0.42	4.36	4.6	0
PR	144	BSP150	150	41.72697	-71.34917	7/8/03	70803	10.1	9.3	35.1	55.6	0.40	4.04	5.7	0
PR	145	BSP151	151	41.72675	-71.34423	7/8/03	70803	6.9	19.4	67.0	13.6	0.18	1.62	1.6	0
PR	146	BSP152	152	41.72687	-71.34158	7/8/03	70803	4.2	9.5	84.5	6.0	0.05	0.71	0.8	0
PR	147	BSP153	153	41.72383	-71.37287	7/2/03	70203	4.2	45.6	31.8	22.6	0.46	4.01	3.8	1
PR	148	BSP154	154	41.72271	-71.36389	7/2/03	70203	5.7	1.2	84.7	14.1	0.09	0.81	0.7	0
PR	149	BSP155	155	41.72175	-71.35352	7/8/03	70803	10.3	0.6	21.7	77.7	0.37	3.59	4.3	0
PR	150	BSP156	156	41.72195	-71.34338	7/2/03	70203	6.5	38.9	34.1	27.0	0.22	1.68	3.7	1
UB	151	BSP157	157	41.72323	-71.33492	7/2/03	70203	2.3	0.1	98.7	1.2	0.03	0.21	0.4	0
UB	152	BSP158	158	41.72330	-71.32391	7/2/03	70203	3.2	6.6	91.7	1.7	0.04	0.24	0.3	0
UB	153	BSP159	159	41.72252	-71.31407	7/2/03	70203	5.0	64.7	23.5	11.8	0.65	5.28	5.1	0
UB	154	BSP159A	159A	41.71978	-71.30652	7/2/03	70203	2.4	0.5	95.9	3.6	0.02	0.19	0.3	0
UB	155	BSP161	161	41.71324	-71.36254	7/2/03	70203	1.6	15.7	82.8	1.4	0.03	0.25	0.4	0
UB	156	BSP162	162	41.71498	-71.35236	7/2/03	70203	4.0	7.9	90.4	1.7	0.03	0.35	0.4	0
UB	157	BSP163	163	41.71550	-71.34216	7/2/03	70203	17.1	18.3	49.6	32.1	0.17	2.27	2.7	0
UB	158	BSP164	164	41.71438	-71.33362	7/2/03	70203	5.5	25.7	64.1	10.3	0.14	5.02	1.8	1
UB	159	BSP165	165	41.71641	-71.32180	7/2/03	70203	6.0	33.5	54.9	11.6	0.16	1.39	1.6	0
UB	160	BSP166	166	41.71498	-71.31327	7/2/03	70203	6.8	26.0	53.2	20.8	0.28	2.13	2.3	0
UB	161	BSP167	167	41.71474	-71.29520	6/25/03	62503	2.9	0.1	78.5	21.4	0.07	1.04	1.2	0
UB	162	BSP168	168	41.71489	-71.28884	6/25/03	62503	1.9	0.4	99.6	0.1	0.03	0.29	0.4	0
UB	163	BSP169	169	41.70725	-71.36341	7/2/03	70203	2.9	2.0	96.6	1.4	0.03	0.31	0.5	0
UB	164	BSP170	170	41.70758	-71.35352	7/2/03	70203	4.5	16.5	82.4	1.2	0.02	0.18	0.4	1
UB	165	BSP171	171	41.70726	-71.34337	7/2/03	70203	5.5	8.5	89.0	2.5	0.15	1.36	0.6	0
UB	166	BSP172	172	41.70726	-71.33448	7/2/03	70203	10.4	26.8	23.8	49.5	0.46	3.92	4.3	0
UB	167	BSP173	173	41.70690	-71.32431	7/2/03	70203	7.4	5.5	36.0	58.5	0.31	4.03	4.3	0
UB	168	BSP174	174	41.70684	-71.31515	7/2/03	70203	7.3	1.8	32.1	66.1	0.44	4.06	4.9	0
UB	169	BSP175	175	41.70444	-71.30479	6/25/03	62503	2.9	0.7	97.5	1.8	0.05	0.37	0.5	0
UB	170	BSP176	176	41.70638	-71.29543	6/25/03	62503	4.1	0.0	76.7	23.3	0.22	2.20	2.0	1
UB	171	BSP178	178	41.70000	-71.36300	7/2/03	70203	3.6	6.2	92.3	1.5	0.04	0.27	0.4	0
UB	172	BSP179	179	41.70034	-71.35225	7/2/03	70203	5.9	36.7	59.5	3.8	0.13	0.83	0.7	0
UB	173	BSP180	180	41.70069	-71.34321	7/2/03	70203	7.2	2.0	83.1	15.0	0.08	0.99	1.1	1
UB	174	BSP181	181	41.70284	-71.33342	7/2/03	70203	9.1	10.3	34.1	55.6	0.43	3.75	4.7	0
UB	175	BSP182	182	41.70373	-71.32379	7/2/03	70203	7.9	7.2	16.0	76.8	0.39	3.56	4.3	0
UB	176	BSP183	183	41.70370	-71.31458	7/2/03	70203	7.8	8.8	15.1	76.1	0.37	4.17	4.4	0
UB	177	BSP184	184	41.70030	-71.30451	6/25/03	62503	4.0	0.0	97.2	2.8	0.09	1.11	0.8	0
UB	178	BSP185	185	41.70018	-71.29483	6/25/03	62503	6.1	0.1	58.0	41.9	0.35	3.78	4.0	0
UB	179	BSP191	191	41.69231	-71.36055	7/2/03	70203	5.8	12.6	75.0	12.3	0.13	2.65	1.5	0
UB	180	BSP192	192	41.69280	-71.35307	7/2/03	70203	8.4	5.7	33.3	61.1	0.46	4.42	5.2	0

Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenoformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Chem
UB	181	BSP193	193	41.69292	-71.34322	7/2/03	70203	7.9	25.5	37.6	36.9	0.32	3.40	3.7	1
UB	182	BSP194	194	41.69282	-71.33365	7/2/03	70203	7.7	5.3	31.1	63.6	0.37	3.60	3.5	0
UB	183	BSP195	195	41.69262	-71.32432	7/2/03	70203	7.5	29.8	21.3	48.9	0.39	3.94	4.4	0
UB	184	BSP196	196	41.69267	-71.31485	7/2/03	70203	11.1	7.8	35.1	57.1	0.21	3.34	2.9	1
UB	185	BSP197	197	41.69320	-71.30540	6/25/03	62503	7.2	0.2	40.2	59.7	0.36	4.01	4.4	0
UB	186	BSP198	198	41.69266	-71.29573	6/25/03	62503	6.3	0.0	56.4	43.6	0.33	4.20	3.9	0
GB	187	BSP199	199	41.68690	-71.44505	8/14/03	81403	4.2	0.0	47.2	52.8	0.31	2.56	3.5	1
GB	188	BSP200	200	41.68505	-71.44042	8/14/03	81403	5.1	0.0	51.4	48.6	0.32	2.80	3.0	0
GB	189	BSP201	201	41.68463	-71.42868	8/14/03	81403	3.6	0.0	98.7	1.3	0.02	0.24	0.2	0
GB	190	BSP202	202	41.68377	-71.42057	8/14/03	81403	2.9	0.0	96.4	3.6	0.05	0.23	0.4	0
GB	191	BSP203	203	41.68170	-71.41103	8/14/03	81403	4.4	0.0	98.3	1.7	0.04	0.19	4.0	0
GB	192	BSP204	204	41.68352	-71.40105	8/14/03	81403	2.0	0.0	99.1	0.9	0.05	0.24	0.2	1
GB	193	BSP205	205	41.68157	-71.39200	8/14/03	81403	6.5	0.0	72.8	27.2	0.23	1.99	2.1	1
GB	194	BSP205A	205A	41.68105	-71.39283	8/14/03	81403	3.3	0.0	98.2	1.8	0.05	0.21	0.3	0
UB	195	BSP207	207	41.68534	-71.36276	7/2/03	70203	6.3	41.3	29.6	29.1	0.53	4.84	5.3	0
UB	196	BSP208	208	41.68560	-71.35286	7/2/03	70203	7.5	37.7	22.5	39.8	0.52	4.83	5.0	0
UB	197	BSP209	209	41.68568	-71.34357	7/2/03	70203	8.7	20.2	27.8	51.9	0.37	3.72	4.5	0
UB	198	BSP210	210	41.68565	-71.33348	7/2/03	70203	7.5	31.5	22.4	46.0	0.45	4.22	4.3	0
UB	199	BSP211	211	41.68568	-71.32384	7/2/03	70203	7.5	7.4	68.3	24.4	0.13	1.08	2.3	0
UB	200	BSP212	212	41.68571	-71.31405	7/2/03	70203	15.1	9.5	25.7	64.8	0.25	2.66	3.3	0
UB	201	BSP213	213	41.68500	-71.30511	6/25/03	62503	7.7	0.0	39.2	60.8	0.29	3.86	3.8	0
UB	202	BSP214	214	41.68567	-71.29730	6/25/03	62503	3.5	0.0	98.7	1.3	0.05	0.23	0.4	0
GB	203	BSP215	215	41.67855	-71.44017	8/14/03	81403	4.6	7.0	37.3	55.7	0.48	4.55	6.9	0
GB	204	BSP216	216	41.67807	-71.43045	8/14/03	81403	5.4	0.0	27.2	72.8	0.30	2.89	3.3	0
GB	205	BSP217	217	41.67843	-71.42020	8/14/03	81403	5.8	0.0	30.0	70.0	0.34	3.48	3.8	0
GB	206	BSP218	218	41.67770	-71.41105	8/14/03	81403	4.7	0.0	97.0	3.0	0.06	0.26	0.3	0
GB	207	BSP219	219	41.67847	-71.40102	8/14/03	81403	3.9	0.0	99.7	0.3	0.04	0.16	0.3	0
GB	208	BSP220	220	41.67770	-71.39188	8/14/03	81403	4.3	0.0	96.8	3.2	0.07	0.48	0.8	0
UB	209	BSP221	221	41.67836	-71.37263	7/29/03	72903	5.4	0.0	91.4	8.6	0.12	0.88	0.9	0
UB	210	BSP222	222	41.67838	-71.36320	7/29/03	72903	7.9	25.5	69.7	4.8	0.07	0.81	0.7	1
UB	211	BSP223	223	41.67832	-71.35346	7/29/03	72903	8.5	15.2	66.2	18.7	0.16	1.29	1.5	1
UB	212	BSP224	224	41.67843	-71.34376	7/29/03	72903	10.1	16.8	26.9	56.3	0.40	3.75	4.5	0
UB	213	BSP225	225	41.67831	-71.33433	7/29/03	72903	7.8	7.6	26.4	66.0	0.35	3.26	3.7	0
UB	214	BSP226	226	41.67818	-71.32492	7/29/03	72903	7.8	7.8	20.4	71.8	0.32	3.46	3.7	1
UB	215	BSP227	227	41.67825	-71.31470	7/16/03	71603	10.0	6.1	19.1	74.8	0.32	3.40	4.3	0
UB	216	BSP228	228	41.67945	-71.30535	7/16/03	71603	6.7	6.2	47.0	46.8	0.26	2.81	3.1	0
EP	217	BSP229	229	41.67862	-71.28563	7/16/03	71603	5.0	0.9	9.5	89.6	0.40	3.59	4.6	1
GB	218	BSP230	230	41.67117	-71.44025	8/14/03	81403	2.3	0.0	98.5	1.5	0.05	0.27	0.5	0
GB	219	BSP231	231	41.67102	-71.43082	8/14/03	81403	4.7	0.0	34.4	65.6	0.34	3.20	3.4	1
GB	220	BSP232	232	41.67112	-71.42100	8/14/03	81403	4.3	0.0	81.3	18.7	0.11	0.64	1.1	0
GB	221	BSP233	233	41.67115	-71.41147	8/14/03	81403	5.1	0.0	46.6	53.4	0.24	2.37	2.9	1
GB	222	BSP234	234	41.67117	-71.40148	8/14/03	81403	4.8	0.0	95.9	4.1	0.06	0.30	0.4	0
GB	223	BSP235	235	41.67125	-71.39150	8/14/03	81403	6.5	0.0	95.2	4.8	0.07	0.85	0.8	0
UB	224	BSP236	236	41.67063	-71.37259	7/29/03	72903	5.8	25.3	45.0	29.6	0.33	4.38	3.5	0
UB	225	BSP237	237	41.67113	-71.36274	7/29/03	72903	14.3	19.2	74.6	6.1	0.07	0.77	0.8	0

Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenoformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Chem
UB	226	BSP238	238	41.67121	-71.35317	7/29/03	72903	11.0	27.0	4.4	68.6	0.58	5.02	5.7	0
UB	227	BSP239	239	41.67112	-71.34346	7/29/03	72903	8.8	7.5	48.7	43.7	0.30	2.51	3.1	0
UB	228	BSP240	240	41.67104	-71.33373	7/29/03	72903	7.9	17.1	8.6	74.3	0.39	3.67	4.2	0
UB	229	BSP241	241	41.67109	-71.32407	7/29/03	72903	8.3	21.6	12.4	66.0	0.39	4.00	5.0	0
UB	230	BSP242	242	41.67110	-71.31438	7/29/03	72903	11.2	15.2	6.2	78.6	0.35	3.17	4.7	0
EP	231	BSP243	243	41.67132	-71.28507	7/16/03	71603	16.3	7.0	24.6	68.4	0.44	3.57	4.4	0
GB	232	BSP244	244	41.66602	-71.44367	8/14/03	81403	5.2	0.0	53.0	47.0	0.46	4.62	4.5	1
GB	233	BSP245	245	41.66490	-71.41182	8/14/03	81403	2.5	0.0	98.6	1.4	0.04	0.17	0.3	0
GB	234	BSP246	246	41.66385	-71.40160	8/14/03	81403	3.2	2.7	96.1	1.3	0.04	0.22	0.3	0
WP	235	BSP247	247	41.66367	-71.39195	8/14/03	81403	5.2	0.0	95.8	4.2	0.07	0.41	0.6	1
WP	236	BSP248	248	41.66378	-71.38180	8/14/03	81403	11.1	1.4	91.7	6.9	0.06	0.46	0.6	0
WP	237	BSP249	249	41.66400	-71.37465	8/13/03	81303	18.6	0.0	94.0	6.0	0.14	1.24	0.9	1
WP	238	BSP250	250	41.66428	-71.36348	7/30/03	73003	6.7	45.7	29.3	25.0	0.41	3.63	3.2	0
WP	239	BSP251	251	41.66373	-71.35374	7/30/03	73003	7.1	53.8	30.1	16.1	0.37	3.55	4.0	0
EP	240	BSP252	252	41.66396	-71.34313	7/29/03	72903	5.0	46.0	51.3	2.8	0.10	0.96	0.9	0
EP	241	BSP253	253	41.66374	-71.33369	7/29/03	72903	8.0	9.2	25.4	65.4	0.32	3.28	3.7	1
EP	242	BSP254	254	41.66391	-71.32403	7/29/03	72903	8.4	28.2	9.4	62.4	0.42	3.99	4.9	1
EP	243	BSP255	255	41.66385	-71.31438	7/29/03	72903	11.6	6.1	20.0	73.9	0.33	3.66	3.6	0
EP	244	BSP256	256	41.66381	-71.30572	7/29/03	72903	4.4	43.9	54.2	1.9	0.08	0.87	0.8	0
EP	245	BSP257	257	41.66373	-71.28545	7/16/03	71603	6.8	5.1	7.0	87.9	0.28	3.69	4.4	0
EP	246	BSP258	258	41.66357	-71.27652	7/16/03	71603	5.9	34.0	41.2	24.8	0.16	2.00	2.6	0
WP	247	BSP259	259	41.65450	-71.42283	8/14/03	81403	2.5	0.0	35.8	64.2	0.27	3.36	3.3	1
WP	248	BSP260	260	41.65410	-71.41215	8/14/03	81403	2.6	0.0	79.6	20.4	0.09	0.55	0.9	0
WP	249	BSP261	261	41.65687	-71.40148	8/14/03	81403	4.0	3.7	93.0	3.3	0.05	0.38	0.4	0
WP	250	BSP262	262	41.65680	-71.39150	8/14/03	81403	5.3	0.9	95.4	3.8	0.05	0.60	0.5	0
WP	251	BSP263	263	41.65662	-71.38190	8/14/03	81403	6.8	0.0	84.7	15.3	0.07	0.89	3.2	0
WP	252	BSP264	264	41.65668	-71.37280	8/13/03	81303	6.1	0.0	97.8	2.2	0.05	0.76	0.4	0
WP	253	BSP266	266	41.65586	-71.35282	7/30/03	73003	6.6	11.6	63.3	25.0	0.10	1.24	0.6	0
EP	254	BSP268	268	41.65667	-71.33398	7/29/03	72903	8.3	2.8	34.3	62.9	0.41	3.46	4.4	1
EP	255	BSP269	269	41.65661	-71.32437	7/29/03	72903	8.5	6.7	8.1	85.2	0.39	3.59	4.2	0
EP	256	BSP270	270	41.65664	-71.31449	7/29/03	72903	10.7	0.2	19.7	80.2	0.34	3.03	3.5	0
EP	257	BSP271	271	41.65640	-71.30543	7/29/03	72903	4.3	18.0	80.1	1.9	0.06	1.05	0.6	0
EP	258	BSP272	272	41.65665	-71.29525	7/29/03	72903	6.9	14.3	32.7	53.0	0.26	2.49	2.6	0
EP	259	BSP273	273	41.65663	-71.28586	7/29/03	72903	8.8	22.8	15.3	61.9	0.32	2.96	3.8	1
EP	260	BSP274	274	41.65683	-71.27591	7/29/03	72903	8.2	6.1	35.7	58.2	0.24	2.69	3.0	0
WP	261	BSP275	275	41.64950	-71.40178	8/14/03	81403	4.3	0.0	89.1	10.9	0.11	0.73	0.9	0
WP	262	BSP276	276	41.64947	-71.39197	8/14/03	81403	7.8	0.0	90.2	9.8	0.08	0.68	0.9	1
WP	263	BSP277	277	41.64843	-71.38073	8/14/03	81403	8.9	21.5	71.7	6.8	0.05	0.82	1.0	0
WP	264	BSP278	278	41.64928	-71.37292	8/13/03	81303	13.9	0.0	71.9	28.1	0.20	3.17	1.5	0
WP	265	BSP279	279	41.64980	-71.36308	8/13/03	81303	6.4	23.2	63.5	13.3	0.13	2.03	1.7	0
WP	266	BSP280	280	41.65003	-71.35550	8/13/03	81303	3.8	0.0	98.2	1.8	0.05	0.43	0.6	0
EP	267	BSP282	282	41.64935	-71.32400	7/29/03	72903	8.5	7.6	14.0	78.4	0.33	3.56	4.1	0
EP	268	BSP283	283	41.64925	-71.31440	7/29/03	72903	10.6	7.6	8.4	84.0	0.30	2.81	3.5	1
EP	269	BSP284	284	41.64931	-71.30478	7/29/03	72903	12.4	3.7	26.4	69.8	0.30	2.81	3.3	0
EP	270	BSP285	285	41.64939	-71.29512	7/29/03	72903	10.0	33.1	27.0	39.9	0.23	2.69	2.6	1

Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenoformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Chem
EP	271	BSP286	286	41.64922	-71.28569	7/29/03	72903	4.0	31.0	67.3	1.8	0.06	0.61	0.6	1
EP	272	BSP287	287	41.64944	-71.27572	7/29/03	72903	7.2	52.7	15.6	31.7	0.40	3.66	4.7	1
WP	273	BSP288	288	41.64193	-71.40108	8/13/03	81303	6.1	0.0	41.9	58.1	0.24	2.08	2.5	0
WP	274	BSP289	289	41.64212	-71.39158	8/13/03	81303	9.8	0.0	31.5	68.5	0.36	3.15	4.2	0
WP	275	BSP290	290	41.64162	-71.38167	8/13/03	81303	9.5	0.0	30.9	69.1	0.42	4.23	4.7	0
WP	276	BSP291	291	41.64202	-71.37213	8/13/03	81303	9.1	0.0	61.9	38.1	0.15	4.46	2.1	0
WP	277	BSP292	292	41.64223	-71.36273	8/13/03	81303	7.7	0.0	60.0	40.0	0.18	2.09	2.3	0
WP	278	BSP293	293	41.64242	-71.35402	8/13/03	81303	5.5	0.0	96.0	4.0	0.06	0.42	0.6	0
EP	279	BSP294	294	41.64146	-71.33845	7/30/03	73003	5.4	2.7	41.8	55.5	0.58	4.79	5.5	0
EP	280	BSP295	295	41.64183	-71.33223	7/30/03	73003	6.0	4.1	94.4	1.5	0.06	0.35	0.5	0
EP	281	BSP296	296	41.64199	-71.32352	7/30/03	73003	8.2	6.2	16.3	77.5	0.29	3.61	3.2	0
EP	282	BSP297	297	41.64225	-71.31417	7/30/03	73003	10.5	3.2	26.1	70.6	0.32	3.12	3.6	0
EP	283	BSP298	298	41.64236	-71.30458	7/30/03	73003	14.3	0.4	22.7	77.0	0.26	2.59	3.2	0
EP	284	BSP299	299	41.64228	-71.29449	7/30/03	73003	9.4	4.0	46.9	49.1	0.24	2.49	2.2	0
EP	285	BSP300	300	41.64090	-71.28844	7/30/03	73003	4.3	20.4	78.7	0.9	0.05	0.37	0.5	0
EP	286	BSP301	301	41.64220	-71.27344	7/30/03	73003	4.5	21.0	58.0	21.0	0.20	1.93	2.1	0
EP	287	BSP302	302	41.64194	-71.26579	7/30/03	73003	9.0	16.6	43.3	40.1	0.24	2.49	3.1	1
WP	288	BSP303	303	41.63482	-71.40158	8/13/03	81303	4.9	0.0	71.3	28.7	0.08	0.90	1.5	0
WP	289	BSP304	304	41.63477	-71.39190	8/13/03	81303	10.3	0.0	25.9	74.1	0.11	2.99	3.5	1
WP	290	BSP305	305	41.63475	-71.38245	8/13/03	81303	9.2	0.0	15.4	84.6	0.42	4.52	5.2	0
WP	291	BSP306	306	41.63497	-71.37278	8/13/03	81303	7.2	0.0	25.8	74.2	0.37	4.58	4.4	0
WP	292	BSP307	307	41.63467	-71.36323	8/13/03	81303	8.9	0.0	42.7	57.3	0.22	2.64	3.8	1
WP	293	BSP308	308	41.63510	-71.35327	8/13/03	81303	6.8	0.0	96.3	3.7	0.06	0.38	0.5	0
EP	294	BSP309	309	41.63548	-71.33183	7/30/03	73003	5.1	48.5	28.1	23.4	0.33	3.78	4.5	1
EP	295	BSP310	310	41.63481	-71.32473	7/30/03	73003	6.6	22.4	73.5	4.1	0.07	0.61	0.7	0
EP	296	BSP311	311	41.63489	-71.31523	7/30/03	73003	7.3	15.2	66.6	18.2	0.10	1.07	1.0	0
EP	297	BSP312	312	41.63531	-71.30462	7/30/03	73003	14.8	4.6	26.4	69.0	0.20	3.76	3.1	1
EP	298	BSP313	313	41.63493	-71.29566	7/30/03	73003	9.7	13.5	15.1	71.5	0.36	3.59	4.8	0
EP	299	BSP314	314	41.63479	-71.28575	7/30/03	73003	4.1	35.2	62.2	2.5	0.11	1.02	0.9	0
EP	300	BSP315	315	41.63477	-71.27628	7/30/03	73003	5.6	1.8	70.1	28.1	0.16	2.16	2.1	0
EP	301	BSP316	316	41.63369	-71.26762	7/30/03	73003	15.9	1.9	66.1	32.0	0.32	5.28	2.5	0
WP	302	BSP317	317	41.62747	-71.40142	8/13/03	81303	2.6	0.0	97.8	2.2	0.05	0.51	0.6	0
WP	303	BSP318	318	41.62768	-71.39127	8/13/03	81303	9.3	0.0	17.1	82.9	0.34	3.80	4.2	0
WP	304	BSP319	319	41.62773	-71.38180	8/13/03	81303	9.1	0.0	33.3	66.7	0.20	2.22	2.6	0
WP	305	BSP320	320	41.62795	-71.37213	8/13/03	81303	8.5	0.0	43.5	56.5	0.19	2.05	2.6	0
WP	306	BSP321	321	41.62762	-71.36275	8/13/03	81303	8.7	0.0	44.0	56.0	0.22	2.34	2.4	0
WP	307	BSP322	322	41.62777	-71.35267	8/13/03	81303	9.5	0.0	38.0	62.0	0.22	2.40	2.7	0
WP	308	BSP323	323	41.62772	-71.34310	8/13/03	81303	7.5	0.0	83.5	16.5	0.07	0.85	0.9	1
WP	309	BSP324	324	41.62782	-71.33363	8/13/03	81303	3.0	0.0	99.0	1.0	0.04	0.24	0.4	0
EP	310	BSP326	326	41.62770	-71.30431	7/30/03	73003	9.3	34.0	3.6	62.4	0.36	3.49	5.0	0
EP	311	BSP327	327	41.62823	-71.29517	7/30/03	73003	18.6	1.1	28.2	70.7	0.24	2.66	3.2	0
EP	312	BSP328	328	41.62739	-71.28557	7/30/03	73003	11.7	9.0	26.7	64.2	0.24	3.00	3.3	0
EP	313	BSP329	329	41.62777	-71.27647	7/30/03	73003	20.8	12.9	27.0	60.1	0.35	4.33	4.3	0
EP	314	BSP330	330	41.62750	-71.26625	7/30/03	73003	5.9	28.3	58.6	13.1	0.24	4.58	4.1	0
WP	315	BSP331	331	41.62057	-71.40215	8/13/03	81303	3.2	0.0	93.4	6.6	0.05	0.56	0.5	1

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WP	316	BSP332	332	41.62045	-71.39243	8/13/03	81303	8.0	0.0	34.5	65.5	0.36	3.15	3.4	0
WP	317	BSP333	333	41.62060	-71.38190	8/13/03	81303	9.2	0.0	29.2	70.8	0.28	2.42	2.8	1
WP	318	BSP334	334	41.62050	-71.37317	8/13/03	81303	8.3	0.0	41.8	58.2	0.22	2.14	1.7	0
WP	319	BSP335	335	41.62045	-71.36345	8/13/03	81303	8.4	0.0	24.4	75.6	0.25	2.36	3.0	0
WP	320	BSP336	336	41.62075	-71.35372	8/13/03	81303	8.8	0.0	32.4	67.6	0.30	3.77	3.2	0
WP	321	BSP337	337	41.62082	-71.34308	8/13/03	81303	8.2	0.0	24.9	75.1	0.29	2.81	3.2	0
WP	322	BSP338	338	41.62010	-71.33342	8/13/03	81303	7.8	0.0	26.3	73.7	0.31	3.02	2.9	0
WP	323	BSP339	339	41.61948	-71.32833	8/13/03	81303	6.4	0.0	44.8	55.2	0.43	4.07	4.8	0
EP	324	BSP340	340	41.62046	-71.30284	7/30/03	73003	15.9	6.0	32.1	61.9	0.24	2.37	3.0	0
EP	325	BSP341	341	41.62176	-71.29513	7/30/03	73003	18.4	27.1	64.0	8.9	0.17	2.94	2.7	1
EP	326	BSP342	342	41.62048	-71.28578	7/30/03	73003	15.4	16.7	19.8	63.5	0.34	3.73	3.8	1
EP	327	BSP343	343	41.61998	-71.27561	7/30/03	73003	5.5	21.3	70.4	8.3	0.12	1.47	0.9	0
WP	328	LB01	LB01	41.61726	-71.39597	6/21/06	62106	7.6	21.3	45.4	33.3	0.17	1.86	2.2	1
WP	329	LB02	LB02	41.61690	-71.37659	6/21/06	62106	9.0	2.5	30.1	67.4	0.22	2.45	3.2	1
WP	330	LB03	LB03	41.61621	-71.35793	6/21/06	62106	9.5	14.4	28.2	57.3	0.24	3.00	3.2	1
WP	331	LB04	LB04	41.61461	-71.33701	6/21/06	62106	8.7	3.5	27.0	69.6	0.21	2.47	4.3	1
EP	332	LB05	LB05	41.61711	-71.30307	7/17/06	62106	15.8	11.4	27.9	60.7	0.29	3.04	4.4	1
EP	333	LB05A	LB05A	41.61792	-71.27837	7/17/06	71706	6.6	23.4	38.3	38.3	0.34	5.28	4.5	1
WP	334	LB06	LB06	41.60233	-71.38600	6/21/06	62106	10.0	2.7	33.4	63.8	0.19	2.14	3.6	1
WP	335	LB07	LB07	41.60074	-71.34839	6/21/06	62106	10.4	0.0	15.6	84.4	0.24	2.42	3.3	1
EP	336	LB08	LB08	41.60321	-71.28721	7/17/06	71706	14.7	12.6	44.9	42.5	0.25	3.05	3.3	1
WP	337	LB09	LB09	41.58759	-71.39684	6/21/06	62106	11.6	6.0	28.5	65.5	0.19	2.14	2.7	1
WP	338	LB10	LB10	41.58715	-71.37711	6/21/06	62106	9.3	4.5	20.3	75.3	0.22	2.35	2.9	1
WP	339	LB11	LB11	41.58665	-71.35780	6/21/06	62106	9.4	4.2	26.5	69.4	0.20	2.04	2.7	1
WP	340	LB12	LB12	41.57329	-71.42612	6/21/06	62106	6.1	2.9	54.9	42.2	0.11	1.15	1.5	1
WP	341	LB13	LB13	41.57356	-71.39743	6/21/06	62106	9.2	2.1	32.5	65.4	0.19	2.00	2.8	1
EP	342	LB14	LB14	41.57490	-71.34655	7/17/06	71706	10.6	1.4	19.4	79.1	0.17	2.05	2.8	1
EP	343	LB15	LB15	41.58314	-71.30344	7/17/06	71706	14.5	4.3	64.0	31.7	0.17	1.70	1.9	1
WP	344	LB16	LB16	41.56258	-71.42964	6/21/06	62106	6.4	0.4	41.8	57.8	0.15	1.56	2.2	1
WP	345	LB17	LB17	41.55910	-71.40652	6/21/06	62106	9.4	0.7	42.2	57.2	0.14	1.53	2.0	1
EP	346	LB18	LB18	41.56001	-71.34731	7/17/06	71706	13.2	0.0	46.2	53.8	0.15	1.47	2.1	1
EP	347	LB19	LB19	41.55622	-71.31531	7/17/06	71706	16.5	0.1	38.3	61.5	0.24	2.36	3.1	1
WP	348	LB20	LB20	41.54464	-71.41530	6/21/06	62106	7.8	0.5	70.2	29.3	0.08	1.12	1.3	1
WP	349	LB21	LB21	41.54384	-71.39540	6/21/06	62106	13.3	8.6	63.9	27.5	0.10	1.07	1.6	1
EP	350	LB22	LB22	41.54665	-71.34882	7/17/06	71706	18.2	0.4	69.8	29.9	0.13	1.09	1.6	1
EP	351	LB23	LB23	41.54507	-71.31772	7/17/06	71706	17.2	0.0	37.0	63.0	0.23	2.23	3.2	1
WP	352	LB24	LB24	41.53072	-71.39954	6/21/06	62106	8.5	42.6	37.7	19.7	0.17	4.29	2.6	1
EP	353	LB25	LB25	41.53156	-71.36057	7/17/06	71706	12.9	2.2	74.5	23.3	0.11	1.51	1.9	1
EP	354	LB26	LB26	41.53336	-71.32649	7/17/06	71706	18.9	24.0	53.8	22.1	0.15	1.61	1.9	1
WP	355	LB27	LB27	41.51554	-71.41048	6/21/06	62106	15.3	0.7	62.0	37.3	0.13	1.46	2.0	1
EP	356	LB28	LB28	41.51941	-71.35953	7/17/06	71706	14.5	0.0	86.3	13.6	0.06	0.98	1.2	1
WP	357	LB29	LB29	41.50168	-71.41578	6/21/06	62106	13.5	1.4	30.6	68.0	0.23	2.50	3.1	1
EP	358	LB30	LB30	41.50158	-71.34304	7/17/06	71706	23.1	65.8	28.1	6.1	0.22	7.41	2.3	1
WP	359	LB31	LB31	41.48660	-71.40863	6/21/06	62106	15.5	20.1	31.5	48.4	0.22	3.32	3.4	1
EP	360	LB32	LB32	41.48949	-71.35789	7/17/06	71706	20.1	2.6	71.8	25.5	0.07	1.69	1.0	1

Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenoformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Chem
WP	361	LB33	LB33	41.46994	-71.40903	6/21/06	62106	16.5	8.0	55.6	36.4	0.12	1.69	2.0	1
EP	362	LB34	LB34	41.48809	-71.33678	7/17/06	71706	18.0	2.0	88.7	9.2	0.05	0.69	1.3	1
WP	363	LB35	LB35	41.45495	-71.41670	6/21/06	62106	15.5	0.1	89.3	10.6	0.02	0.59	0.7	1

Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Hg
SR	1	SR00	SR00	41.87011	-71.38142	7/28/05	72805	2.4	0.5	58.3	41.2	0.3	5.07	5.4	0.660
SR	2	SR0	SR0	41.86538	-71.37922	7/28/05	72805	3.8	1.6	50.5	47.9	0.5	7.00	6.6	0.802
SR	3	SR01	SR01	41.86054	-71.37794	7/28/05	72805	2.9	1.4	19.6	79.0	0.6	7.61	9.4	1.381
SR	8	SR06	SR06	41.84996	-71.37282	7/28/05	72805	1.8	5.1	80.5	14.4	0.1	2.11	2.1	2.410
SR	9	SR07	SR07	41.84643	-71.37708	7/28/05	72805	2.1	1.3	22.3	76.4	0.5	7.84	7.0	1.830
SR	11	SR09	SR09	41.84311	-71.37707	7/28/05	72805	2.4	3.4	25.7	70.9	0.5	7.29	6.7	1.478
SR	14	SR12	SR12	41.83848	-71.37254	7/28/05	72805	2.6	3.2	22.8	74.0	0.4	6.19	5.7	1.454
SR	15	SR13	SR13	41.83532	-71.37831	7/28/05	72805	2.3	6.5	83.9	9.6	0.1	1.20	1.3	0.373
SR	16	SR14	SR14	41.83495	-71.37259	7/28/05	72805	2.3	3.2	57.1	39.7	0.2	4.13	3.2	1.669
SR	20	SR19	SR19	41.82396	-71.38209	7/28/05	72805	7.3	3.1	77.5	19.4	0.2	4.22	3.0	0.827
SR	28	BSP25	25	41.81618	-71.38923	9/30/03	93003	8.4	51.1	18.7	30.2	0.3	8.14	4.6	0.717
PR	29	BSP26	26	41.81142	-71.40045	9/30/03	93003	14.3	0.0	12.1	87.9	0.4	4.83	4.4	0.961
PR	32	BSP30	30	41.80918	-71.39340	9/30/03	93003	12.2	0.0	7.7	92.3	0.4	5.55	5.0	1.272
PR	40	BSP40	40	41.79818	-71.38182	9/30/03	93003	3.0	4.2	65.7	30.1	0.2	2.48	2.1	0.874
PR	45	BSP49	49	41.78420	-71.38347	7/15/03	71503	6.4	0.0	2.0	98.0	0.6	5.39	7.0	1.114
PR	49	BSP54	54	41.78128	-71.38270	7/15/03	71503	5.3	0.0	13.0	87.0	0.5	4.61	5.5	0.779
PR	55	BSP60	60	41.77773	-71.37325	7/15/03	71503	9.6	0.5	3.7	95.8	0.5	4.18	5.5	0.767
PR	57	BSP62	62	41.77445	-71.38765	7/15/03	71503	3.5	7.3	72.1	20.6	0.1	1.22	1.3	0.349
PR	58	BSP63	63	41.77412	-71.38280	7/15/03	71503	6.3	2.0	2.4	95.6	0.5	5.04	5.8	0.999
PR	59	BSP64	64	41.77403	-71.37805	7/15/03	71503	4.2	11.3	58.3	30.3	0.2	3.07	2.7	0.521
PR	69	BSP74	74	41.76682	-71.37295	7/15/03	71503	5.1	0.9	82.4	16.7	0.1	1.26	1.1	0.254
PR	72	BSP77	77	41.76323	-71.37797	7/15/03	71503	13.3	0.2	5.4	94.5	0.4	4.01	4.9	0.590
PR	77	BSP82	82	41.75952	-71.37838	7/10/03	71003	6.6	3.8	19.8	76.5	0.5	4.71	5.5	0.852
PR	79	BSP84	84	41.75973	-71.36820	7/10/03	71003	4.0	6.6	47.2	46.3	0.2	2.79	3.2	0.504
PR	85	BSP90	90	41.75618	-71.35428	7/15/03	71503	3.7	0.6	69.4	30.0	0.2	2.37	2.3	0.361
PR	90	BSP95	95	41.75233	-71.35688	7/10/03	71003	3.4	6.5	35.2	58.3	0.6	3.45	4.0	0.869
PR	94	BSP99	99	41.74865	-71.37310	7/10/03	71003	7.3	0.0	7.3	92.7	0.3	3.41	4.0	1.374
PR	104	BSP109	109	41.74198	-71.37712	7/10/03	71003	4.1	35.4	55.5	9.1	0.2	0.94	1.2	0.158
PR	105	BSP110	110	41.74153	-71.37352	7/10/03	71003	6.3	9.2	60.7	30.1	0.2	2.39	3.7	0.362
PR	120	BSP126	126	41.73527	-71.38405	7/8/03	70803	2.7	9.1	32.6	58.4	0.4	3.09	3.4	0.554
PR	123	BSP129	129	41.73424	-71.36814	7/8/03	70803	9.9	8.6	35.0	56.4	0.3	3.72	4.5	0.526
PR	126	BSP132	132	41.73433	-71.35425	7/8/03	70803	5.6	11.0	63.6	25.4	0.3	2.22	2.3	0.276
PR	128	BSP134	134	41.73417	-71.34404	7/8/03	70803	1.7	7.7	89.6	2.7	0.0	0.17	0.4	0.023
PR	133	BSP139	139	41.73062	-71.36364	7/8/03	70803	9.8	44.6	19.3	36.2	0.4	4.71	4.5	0.401
PR	139	BSP145	145	41.72698	-71.37343	7/8/03	70803	4.3	14.5	64.4	21.1	0.2	1.08	1.0	0.202
PR	147	BSP153	153	41.72383	-71.37287	7/2/03	70203	4.2	45.6	31.8	22.6	0.5	4.01	3.8	0.515
PR	150	BSP156	156	41.72195	-71.34338	7/2/03	70203	6.5	38.9	34.1	27.0	0.2	1.68	3.7	0.190
UB	158	BSP164	164	41.71438	-71.33362	7/2/03	70203	5.5	25.7	64.1	10.3	0.1	5.02	1.8	0.145
UB	164	BSP170	170	41.70758	-71.35352	7/2/03	70203	4.5	16.5	82.4	1.2	0.0	0.18	0.4	0.043
UB	170	BSP176	176	41.70638	-71.29543	6/25/03	62503	4.1	0.0	76.7	23.3	0.2	2.20	2.0	0.159
UB	173	BSP180	180	41.70069	-71.34321	7/2/03	70203	7.2	2.0	83.1	15.0	0.1	0.99	1.1	0.130
UB	181	BSP193	193	41.69292	-71.34322	7/2/03	70203	7.9	25.5	37.6	36.9	0.3	3.40	3.7	0.379
UB	184	BSP196	196	41.69267	-71.31485	7/2/03	70203	11.1	7.8	35.1	57.1	0.2	3.34	2.9	0.271
GB	187	BSP199	199	41.68690	-71.44505	8/14/03	81403	4.2	0.0	47.2	52.8	0.3	2.56	3.5	0.522
GB	192	BSP204	204	41.68352	-71.40105	8/14/03	81403	2.0	0.0	99.1	0.9	0.1	0.24	0.2	0.022

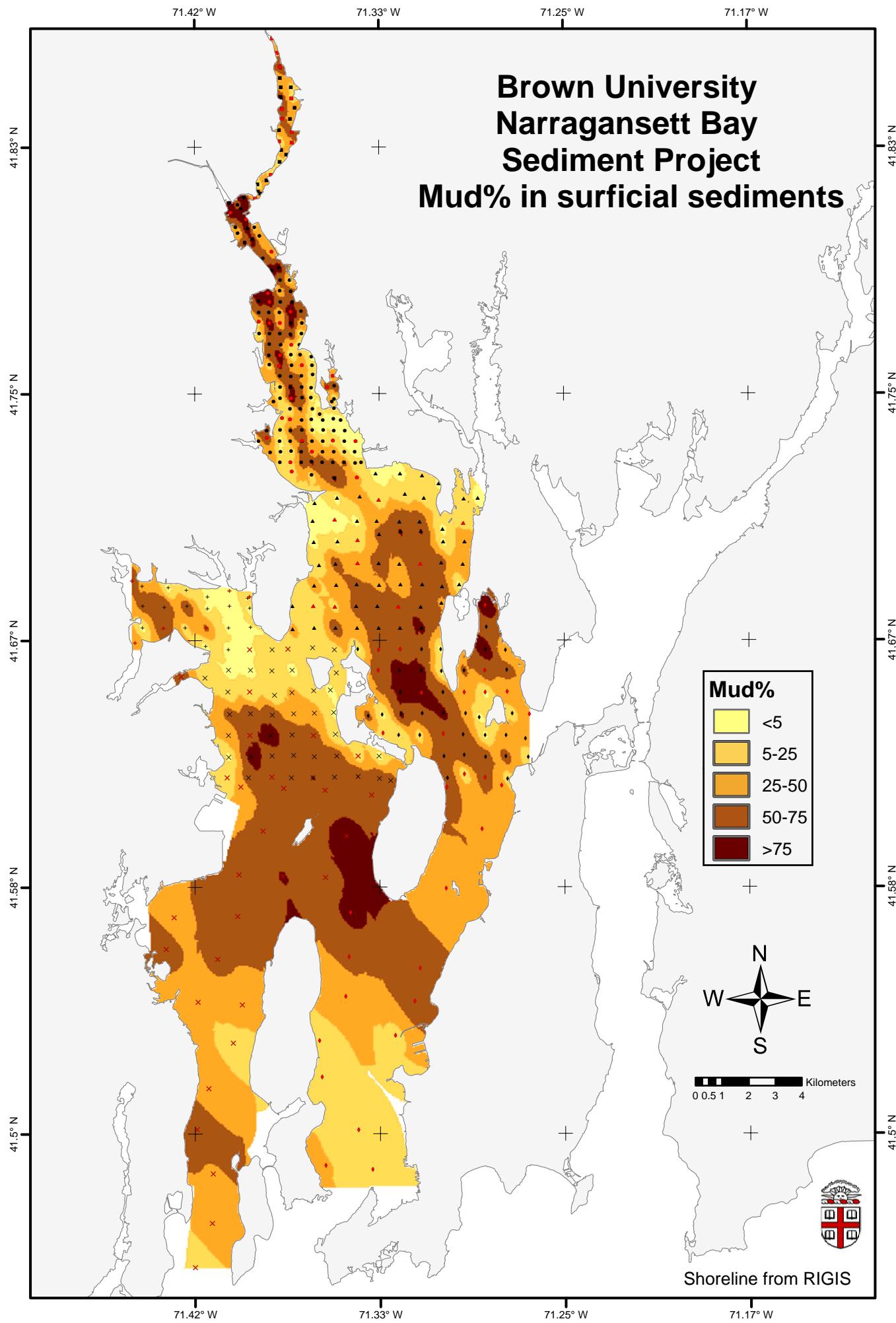
Sample ID	#analyzed	Si	Al	Fe	Mn	Mg	Ca	Na	K	Ti	Cr	Cu	Ni	Pb	Sr	V	Zn
SR00	1	19.91	4.53	4.33	0.052	1.37	1.14	5.22	1.62	0.368	237	390	52	288	208	71	674
SR0	1	18.42	4.42	4.76	0.059	1.29	1.06	4.96	1.57	0.349	287	509	49	300	208	74	696
SR01	1	18.30	4.52	4.11	0.041	1.23	0.85	3.92	1.38	0.307	300	587	48	314	144	55	626
SR06	1	29.70	4.91	2.69	0.051	0.84	1.20	2.53	2.09	0.452	275	416	29	161	179	55	240
SR07	1	20.59	5.19	4.27	0.046	1.22	0.98	3.42	1.59	0.362	427	876	65	427	174	68	775
SR09	1	20.60	5.06	4.19	0.042	1.28	0.96	3.77	1.61	0.355	360	763	49	322	168	61	608
SR12	1	21.20	4.90	5.31	0.047	1.21	0.98	3.93	1.58	0.327	348	703	57	296	164	68	493
SR13	1	28.03	4.86	3.44	0.049	0.79	1.27	2.55	2.35	0.439	238	305	24	164	204	73	225
SR14	1	25.97	5.40	4.11	0.047	1.01	1.16	2.93	1.85	0.374	402	800	46	228	181	62	383
SR19	3	26.62	5.23	3.65	0.044	1.00	1.45	2.92	1.94	0.368	296	722	44	260	211	70	560
BSP25	2	19.44	4.61	3.86	0.046	1.17	7.89	3.69	1.53	0.306	205	415	32	220	550	83	361
BSP26	1	22.52	5.54	3.75	0.047	1.29	1.00	4.73	1.84	0.353	234	523	52	247	176	79	522
BSP30	1	21.51	5.47	3.95	0.044	1.29	0.98	4.71	1.77	0.353	319	806	65	296	178	92	720
BSP40	1	29.43	5.01	2.82	0.042	0.85	1.32	2.77	2.19	0.369	229	309	16	131	212	58	223
BSP49	1	20.93	5.01	3.55	0.032	1.27	0.70	4.34	1.72	0.296	191	389	33	191	127	72	317
BSP54	3	23.05	5.44	3.61	0.037	1.27	0.86	3.55	1.90	0.340	164	305	29	154	146	62	256
BSP60	1	22.90	5.44	3.58	0.041	1.28	1.04	3.64	1.91	0.330	158	248	32	123	144	59	235
BSP62	1	29.27	4.28	2.22	0.046	0.63	2.51	2.72	2.20	0.363	180	260	BD	110	275	41	152
BSP63	1	21.61	5.34	3.67	0.036	1.36	0.86	4.26	1.83	0.319	191	372	31	178	144	60	246
BSP64	1	27.51	5.14	3.10	0.039	0.94	2.47	2.61	2.14	0.369	185	245	19	116	280	69	190
BSP74	1	30.49	4.71	2.19	0.040	0.73	1.52	2.75	2.30	0.322	171	214	BD	81	204	49	112
BSP77	1	23.14	5.54	3.66	0.040	1.31	1.10	3.74	1.96	0.336	146	228	31	100	150	67	253
BSP82	1	22.85	5.34	3.98	0.041	1.25	1.16	3.28	1.99	0.344	196	345	32	186	168	78	287
BSP84	1	26.19	5.31	3.54	0.041	1.09	1.66	2.84	2.15	0.363	179	283	24	146	217	57	214
BSP90	1	28.71	5.10	2.54	0.040	0.85	1.26	3.07	2.25	0.329	132	225	24	135	203	44	241
BSP95	1	25.26	5.58	3.08	0.040	1.09	1.08	3.38	2.06	0.341	212	391	37	176	175	61	343
BSP99	1	24.77	5.86	3.74	0.038	1.25	0.95	3.16	2.04	0.354	332	331	26	180	160	71	294
BSP109	1	27.95	4.08	2.18	0.043	0.71	3.62	3.13	2.29	0.314	110	103	BD	67	302	32	122
BSP110	1	25.62	5.29	3.30	0.043	1.06	2.65	2.62	2.26	0.373	161	236	BD	116	265	59	219
BSP126	1	25.80	5.49	3.06	0.042	1.02	1.34	3.52	2.29	0.359	172	310	22	154	213	52	265
BSP129	1	24.57	5.68	3.70	0.042	1.18	1.46	2.86	2.07	0.364	134	190	25	107	186	62	226
BSP132	1	25.17	4.91	3.12	0.043	1.04	2.77	3.18	2.20	0.329	139	165	BD	106	231	67	187
BSP134	3	37.30	3.82	1.19	0.039	0.32	0.76	1.88	2.27	0.182	92	BD	BD	BD	119	9	BD
BSP139	1	21.65	5.10	3.77	0.044	1.22	2.61	3.56	1.97	0.350	130	176	32	108	295	75	216
BSP145	1	28.19	5.10	2.84	0.045	0.85	2.12	2.84	2.57	0.382	153	158	BD	73	244	56	116
BSP153	1	23.77	5.18	3.78	0.042	1.17	1.80	2.98	2.09	0.348	145	237	26	130	207	63	244
BSP156	1	17.69	4.20	3.45	0.046	1.13	11.22	3.28	1.59	0.323	124	174	19	98	763	80	186
BSP164	2	17.61	3.07	2.40	0.047	0.73	17.93	2.93	1.58	0.293	157	114	BD	48	866	57	91
BSP170	1	35.25	3.52	0.96	0.019	0.32	0.71	2.26	2.31	0.127	69	BD	BD	BD	128	3	BD
BSP176	1	27.12	4.21	2.30	0.039	0.85	3.81	3.14	1.94	0.289	66	75	BD	60	236	44	128
BSP180	2	26.22	4.83	3.27	0.049	0.93	3.15	3.11	2.53	0.408	137	106	18	71	254	75	131
BSP193	2	24.66	5.56	4.12	0.046	1.18	1.87	2.43	2.25	0.399	130	162	21	111	225	86	225
BSP196	2	26.73	5.75	3.26	0.041	1.10	1.98	2.44	2.11	0.410	111	90	20	66	231	71	134
BSP199	1	26.66	5.34	2.81	0.041	0.93	1.38	3.22	2.31	0.344	193	144	BD	92	215	52	192
BSP204	2	37.32	3.29	0.87	0.020	0.21	0.97	2.29	2.38	0.139	82	BD	BD	BD	143	BD	BD

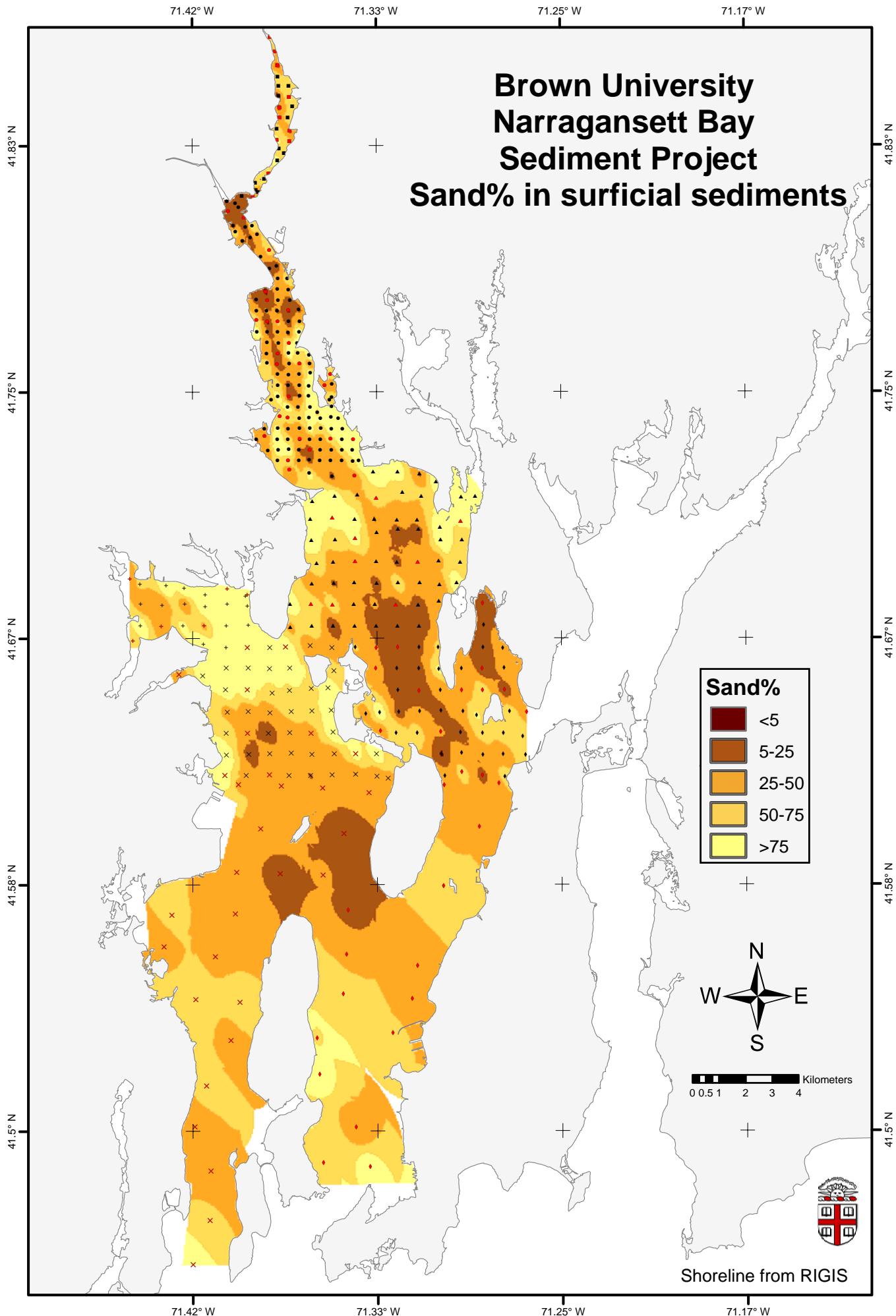
Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Hg
GB	193	BSP205	205	41.68157	-71.39200	8/14/03	81403	6.5	0.0	72.8	27.2	0.2	1.99	2.1	0.035
UB	210	BSP222	222	41.67838	-71.36320	7/29/03	72903	7.9	25.5	69.7	4.8	0.1	0.81	0.7	0.066
UB	211	BSP223	223	41.67832	-71.35346	7/29/03	72903	8.5	15.2	66.2	18.7	0.2	1.29	1.5	0.112
UB	214	BSP226	226	41.67818	-71.32492	7/29/03	72903	7.8	7.8	20.4	71.8	0.3	3.46	3.7	0.499
EP	217	BSP229	229	41.67862	-71.28563	7/16/03	71603	5.0	0.9	9.5	89.6	0.4	3.59	4.6	0.822
GB	219	BSP231	231	41.67102	-71.43082	8/14/03	81403	4.7	0.0	34.4	65.6	0.3	3.20	3.4	0.551
GB	221	BSP233	233	41.67115	-71.41147	8/14/03	81403	5.1	0.0	46.6	53.4	0.2	2.37	2.9	0.315
GB	232	BSP244	244	41.66602	-71.44367	8/14/03	81403	5.2	0.0	53.0	47.0	0.5	4.62	4.5	0.847
WP	235	BSP247	247	41.66367	-71.39195	8/14/03	81403	5.2	0.0	95.8	4.2	0.1	0.41	0.6	0.057
WP	237	BSP249	249	41.66400	-71.37465	8/13/03	81303	18.6	0.0	94.0	6.0	0.1	1.24	0.9	0.073
EP	241	BSP253	253	41.66374	-71.33369	7/29/03	72903	8.0	9.2	25.4	65.4	0.3	3.28	3.7	0.503
EP	242	BSP254	254	41.66391	-71.32403	7/29/03	72903	8.4	28.2	9.4	62.4	0.4	3.99	4.9	0.466
WP	247	BSP259	259	41.65450	-71.42283	8/14/03	81403	2.5	0.0	35.8	64.2	0.3	3.36	3.3	0.200
EP	254	BSP268	268	41.65667	-71.33398	7/29/03	72903	8.3	2.8	34.3	62.9	0.4	3.46	4.4	0.502
EP	259	BSP273	273	41.65663	-71.28586	7/29/03	72903	8.8	22.8	15.3	61.9	0.3	2.96	3.8	0.421
WP	262	BSP276	276	41.64947	-71.39197	8/14/03	81403	7.8	0.0	90.2	9.8	0.1	0.68	0.9	0.095
EP	268	BSP283	283	41.64925	-71.31440	7/29/03	72903	10.6	7.6	8.4	84.0	0.3	2.81	3.5	0.367
EP	270	BSP285	285	41.64939	-71.29512	7/29/03	72903	10.0	33.1	27.0	39.9	0.2	2.69	2.6	0.255
EP	271	BSP286	286	41.64922	-71.28569	7/29/03	72903	4.0	31.0	67.3	1.8	0.1	0.61	0.6	0.069
EP	272	BSP287	287	41.64944	-71.27572	7/29/03	72903	7.2	52.7	15.6	31.7	0.4	3.66	4.7	0.431
EP	287	BSP302	302	41.64194	-71.26579	7/30/03	73003	9.0	16.6	43.3	40.1	0.2	2.49	3.1	0.297
WP	289	BSP304	304	41.63477	-71.39190	8/13/03	81303	10.3	0.0	25.9	74.1	0.1	2.99	3.5	0.321
WP	292	BSP307	307	41.63467	-71.36323	8/13/03	81303	8.9	0.0	42.7	57.3	0.2	2.64	3.8	0.299
EP	294	BSP309	309	41.63548	-71.33183	7/30/03	73003	5.1	48.5	28.1	23.4	0.3	3.78	4.5	0.330
EP	297	BSP312	312	41.63531	-71.30462	7/30/03	73003	14.8	4.6	26.4	69.0	0.2	3.76	3.1	0.290
WP	308	BSP323	323	41.62772	-71.34310	8/13/03	81303	7.5	0.0	83.5	16.5	0.1	0.85	0.9	0.101
WP	315	BSP331	331	41.62057	-71.40215	8/13/03	81303	3.2	0.0	93.4	6.6	0.1	0.56	0.5	0.027
WP	317	BSP333	333	41.62060	-71.38190	8/13/03	81303	9.2	0.0	29.2	70.8	0.3	2.42	2.8	0.327
EP	325	BSP341	341	41.62176	-71.29513	7/30/03	73003	18.4	27.1	64.0	8.9	0.2	2.94	2.7	0.294
EP	326	BSP342	342	41.62048	-71.28578	7/30/03	73003	15.4	16.7	19.8	63.5	0.3	3.73	3.8	0.280
WP	328	LB01	LB01	41.61726	-71.39597	6/21/06	62106	7.6	21.3	45.4	33.3	0.2	1.86	2.2	0.206
WP	329	LB02	LB02	41.61690	-71.37659	6/21/06	62106	9.0	2.5	30.1	67.4	0.2	2.45	3.2	0.275
WP	330	LB03	LB03	41.61621	-71.35793	6/21/06	62106	9.5	14.4	28.2	57.3	0.2	3.00	3.2	0.237
WP	331	LB04	LB04	41.61461	-71.33701	6/21/06	62106	8.7	3.5	27.0	69.6	0.2	2.47	4.3	0.294
EP	332	LB05	LB05	41.61711	-71.30307	7/17/06	62106	15.8	11.4	27.9	60.7	0.3	3.04	4.4	0.310
EP	333	LB05A	LB05A	41.61792	-71.27837	7/17/06	71706	6.6	23.4	38.3	38.3	0.3	5.28	4.5	0.285
WP	334	LB06	LB06	41.60233	-71.38600	6/21/06	62106	10.0	2.7	33.4	63.8	0.2	2.14	3.6	0.218
WP	335	LB07	LB07	41.60074	-71.34839	6/21/06	62106	10.4	0.0	15.6	84.4	0.2	2.42	3.3	0.294
EP	336	LB08	LB08	41.60321	-71.28721	7/17/06	71706	14.7	12.6	44.9	42.5	0.3	3.05	3.3	0.227
WP	337	LB09	LB09	41.58759	-71.39684	6/21/06	62106	11.6	6.0	28.5	65.5	0.2	2.14	2.7	0.174
WP	338	LB10	LB10	41.58715	-71.37711	6/21/06	62106	9.3	4.5	20.3	75.3	0.2	2.35	2.9	0.176
WP	339	LB11	LB11	41.58665	-71.35780	6/21/06	62106	9.4	4.2	26.5	69.4	0.2	2.04	2.7	0.195
WP	340	LB12	LB12	41.57329	-71.42612	6/21/06	62106	6.1	2.9	54.9	42.2	0.1	1.15	1.5	0.101
WP	341	LB13	LB13	41.57356	-71.39743	6/21/06	62106	9.2	2.1	32.5	65.4	0.2	2.00	2.8	0.181
EP	342	LB14	LB14	41.57490	-71.34655	7/17/06	71706	10.6	1.4	19.4	79.1	0.2	2.05	2.8	0.177

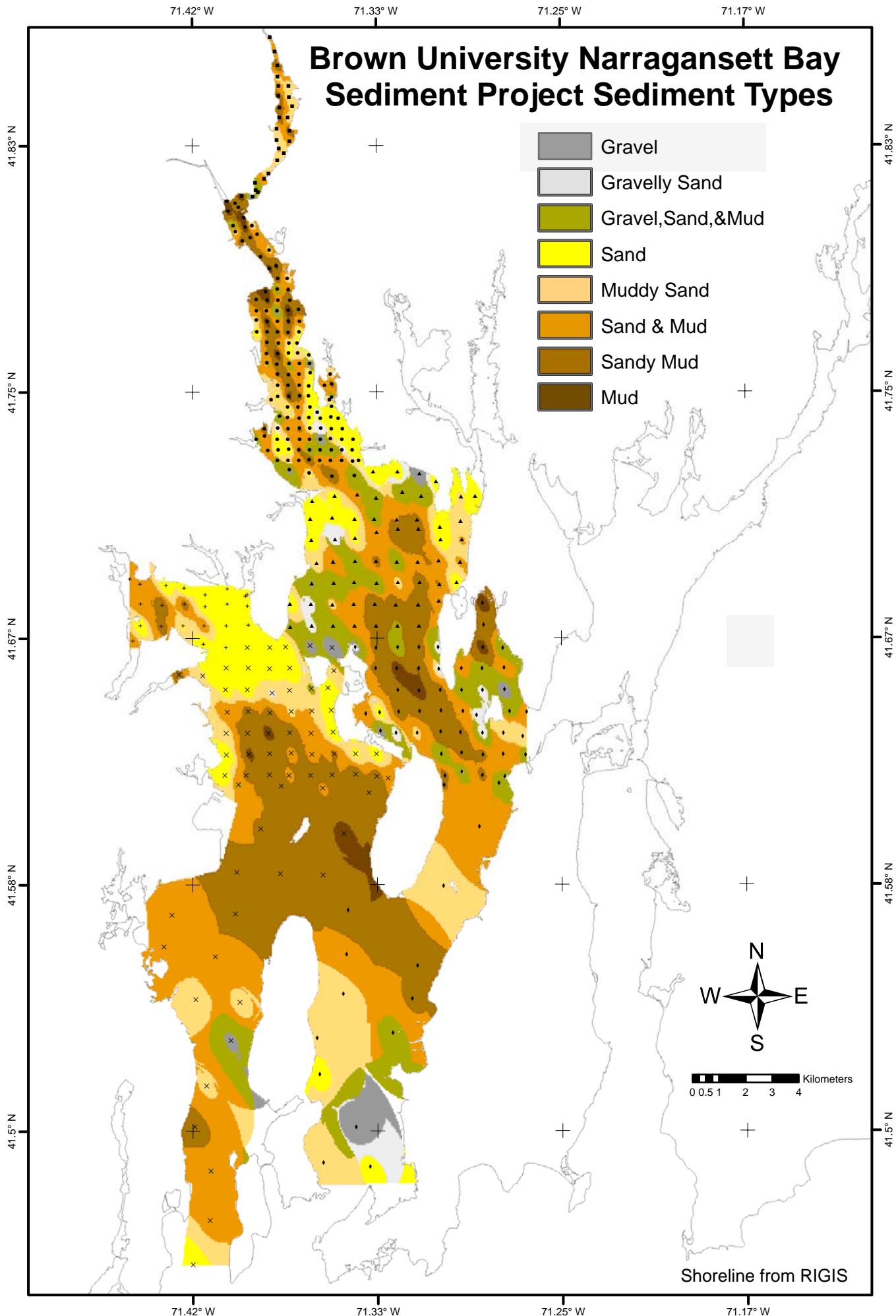
Sample ID	#analyzed	Si	Al	Fe	Mn	Mg	Ca	Na	K	Ti	Cr	Cu	Ni	Pb	Sr	V	Zn
BSP205	1	26.15	4.70	2.54	0.038	0.94	2.06	3.93	2.18	0.321	62	149	14	61	226	47	256
BSP222	1	27.69	3.50	2.22	0.045	0.55	6.39	2.65	2.51	0.309	132	36	BD	BD	335	39	65
BSP223	1	26.54	5.00	3.21	0.046	0.94	3.77	2.66	2.33	0.399	115	102	BD	74	270	68	145
BSP226	1	25.11	6.17	4.02	0.044	1.27	1.32	2.70	2.17	0.419	143	144	29	96	202	82	184
BSP229	1	25.59	5.73	3.42	0.036	1.12	0.73	2.64	2.05	0.390	112	141	26	114	159	76	229
BSP231	1	26.19	5.57	3.46	0.047	1.09	1.08	2.97	2.37	0.366	171	140	19	130	180	71	208
BSP233	1	26.19	5.73	3.38	0.041	1.12	1.04	2.81	2.23	0.361	135	107	26	101	177	79	163
BSP244	1	23.80	5.06	3.00	0.034	1.11	0.90	3.57	1.98	0.298	191	238	20	135	146	60	276
BSP247	2	32.16	3.60	1.51	0.047	0.43	2.62	2.67	2.50	0.362	146	BD	BD	46	231	31	BD
BSP249	1	33.03	3.64	1.43	0.030	0.43	4.45	2.25	2.09	0.174	88	BD	BD	BD	213	8	54
BSP253	1	25.19	6.11	3.92	0.044	1.25	1.61	2.68	2.15	0.406	140	135	36	92	208	84	212
BSP254	1	23.66	5.88	3.64	0.040	1.26	1.51	2.49	2.01	0.348	105	91	30	86	231	91	201
BSP259	1	26.63	5.47	3.45	0.039	1.06	0.93	2.98	2.15	0.372	92	84	21	57	177	71	183
BSP268	1	24.71	5.98	4.08	0.043	1.23	1.16	2.46	2.18	0.399	131	123	23	96	162	94	215
BSP273	1	26.01	5.90	3.69	0.045	1.20	1.75	2.22	2.16	0.416	95	78	27	92	226	77	166
BSP276	1	31.74	4.21	1.98	0.040	0.63	2.21	2.41	2.37	0.385	172	36	BD	BD	182	44	80
BSP283	1	25.29	5.93	3.44	0.040	1.22	1.38	3.05	2.09	0.386	91	68	32	60	176	74	134
BSP285	1	25.74	5.57	3.30	0.043	1.12	2.96	2.82	2.11	0.429	99	70	17	53	337	83	137
BSP286	1	35.37	4.14	1.81	0.033	0.45	2.29	1.55	1.66	0.495	56	BD	BD	BD	156	33	63
BSP287	1	23.39	5.50	3.29	0.037	1.21	2.32	3.07	1.89	0.340	109	76	22	96	244	71	183
BSP302	1	25.78	5.45	3.40	0.042	1.05	2.63	2.28	2.17	0.445	93	64	28	61	239	67	153
BSP304	1	25.83	6.07	3.68	0.041	1.18	1.36	2.68	2.23	0.399	115	109	25	86	194	79	188
BSP307	1	24.90	5.73	3.62	0.042	1.15	2.06	2.45	2.14	0.399	115	102	19	70	214	83	190
BSP309	1	22.79	5.02	3.75	0.041	1.18	3.71	3.05	1.93	0.364	118	98	19	96	299	84	265
BSP312	3	26.39	5.81	3.29	0.042	1.11	1.67	2.70	2.10	0.398	99	54	25	66	196	76	127
BSP323	3	29.95	5.18	3.04	0.045	0.91	1.24	2.33	2.30	0.644	127	50	19	49	165	76	92
BSP331	1	34.50	3.77	1.42	0.033	0.45	0.83	2.57	2.23	0.479	95	BD	BD	BD	140	47	BD
BSP333	1	26.86	6.17	3.88	0.045	1.20	1.09	2.49	2.32	0.427	117	82	27	62	172	83	152
BSP341	1	26.00	5.58	3.38	0.044	1.08	2.50	2.51	2.17	0.429	98	65	28	79	250	63	124
BSP342	1	24.09	5.68	3.70	0.044	1.19	2.94	2.99	2.09	0.394	94	55	29	70	239	86	141
LB01	1	28.81	5.88	2.54	0.032	1.04	1.22	3.14	2.11	0.363	78	45	13	39	150	55	84
LB02	2	26.88	6.14	3.23	0.036	1.16	1.46	2.86	2.12	0.379	97	69	24	56	157	72	131
LB03	1	26.41	5.65	2.90	0.035	1.07	3.36	2.80	1.99	0.342	99	57	26	54	215	60	113
LB04	1	25.88	5.81	2.91	0.034	1.09	2.17	2.77	1.98	0.351	98	46	25	48	171	68	112
LB05	1	24.33	5.76	3.17	0.048	1.19	1.73	3.36	1.86	0.345	82	46	22	59	172	67	128
LB05A	1	20.42	5.10	2.97	0.037	1.11	8.45	2.98	1.65	0.328	80	38	22	68	429	68	88
LB06	1	26.78	5.92	2.69	0.033	1.11	1.25	2.97	2.02	0.359	73	45	14	39	146	66	83
LB07	2	26.94	6.30	3.34	0.037	1.21	1.05	2.74	2.09	0.390	96	52	19	46	145	72	128
LB08	1	24.27	5.57	3.10	0.039	1.15	3.79	3.29	1.91	0.376	86	45	21	42	264	65	92
LB09	1	27.23	6.16	3.07	0.037	1.14	1.31	2.61	2.19	0.375	82	47	11	32	154	69	96
LB10	1	26.84	5.94	2.90	0.036	1.11	1.87	3.00	2.00	0.375	74	39	23	36	174	65	83
LB11	1	27.99	6.19	2.79	0.034	1.18	1.28	2.96	2.03	0.396	67	36	13	51	148	62	111
LB12	2	30.69	5.66	2.17	0.034	0.88	1.04	2.62	2.37	0.359	78	32	BD	BD	127	51	61
LB13	1	26.94	6.37	3.02	0.037	1.21	0.95	2.93	2.18	0.385	83	35	17	61	145	62	106
LB14	1	27.08	6.17	2.99	0.035	1.22	1.24	3.00	2.07	0.400	74	38	17	42	157	68	81

Area	Sequence	Sample ID	MapID	LATITUDE	LONGITUDE	CollectionDate	Datenformat	Depth	GRAVEL	SAND	MUD	Ntot	Ctot	CorgLOI	Hg
EP	343	LB15	LB15	41.58314	-71.30344	7/17/06	71706	14.5	4.3	64.0	31.7	0.2	1.70	1.9	0.137
WP	344	LB16	LB16	41.56258	-71.42964	6/21/06	62106	6.4	0.4	41.8	57.8	0.2	1.56	2.2	0.152
WP	345	LB17	LB17	41.55910	-71.40652	6/21/06	62106	9.4	0.7	42.2	57.2	0.1	1.53	2.0	0.112
EP	346	LB18	LB18	41.56001	-71.34731	7/17/06	71706	13.2	0.0	46.2	53.8	0.2	1.47	2.1	0.140
EP	347	LB19	LB19	41.55622	-71.31531	7/17/06	71706	16.5	0.1	38.3	61.5	0.2	2.36	3.1	0.190
WP	348	LB20	LB20	41.54464	-71.41530	6/21/06	62106	7.8	0.5	70.2	29.3	0.1	1.12	1.3	0.070
WP	349	LB21	LB21	41.54384	-71.39540	6/21/06	62106	13.3	8.6	63.9	27.5	0.1	1.07	1.6	0.057
EP	350	LB22	LB22	41.54665	-71.34882	7/17/06	71706	18.2	0.4	69.8	29.9	0.1	1.09	1.6	0.109
EP	351	LB23	LB23	41.54507	-71.31772	7/17/06	71706	17.2	0.0	37.0	63.0	0.2	2.23	3.2	0.184
WP	352	LB24	LB24	41.53072	-71.39954	6/21/06	62106	8.5	42.6	37.7	19.7	0.2	4.29	2.6	0.089
EP	353	LB25	LB25	41.53156	-71.36057	7/17/06	71706	12.9	2.2	74.5	23.3	0.1	1.51	1.9	0.059
EP	354	LB26	LB26	41.53336	-71.32649	7/17/06	71706	18.9	24.0	53.8	22.1	0.2	1.61	1.9	0.061
WP	355	LB27	LB27	41.51554	-71.41048	6/21/06	62106	15.3	0.7	62.0	37.3	0.1	1.46	2.0	0.088
EP	356	LB28	LB28	41.51941	-71.35953	7/17/06	71706	14.5	0.0	86.3	13.6	0.1	0.98	1.2	0.049
WP	357	LB29	LB29	41.50168	-71.41578	6/21/06	62106	13.5	1.4	30.6	68.0	0.2	2.50	3.1	0.171
EP	358	LB30	LB30	41.50158	-71.34304	7/17/06	71706	23.1	65.8	28.1	6.1	0.2	7.41	2.3	0.041
WP	359	LB31	LB31	41.48660	-71.40863	6/21/06	62106	15.5	20.1	31.5	48.4	0.2	3.32	3.4	0.107
EP	360	LB32	LB32	41.48949	-71.35789	7/17/06	71706	20.1	2.6	71.8	25.5	0.1	1.69	1.0	0.062
WP	361	LB33	LB33	41.46994	-71.40903	6/21/06	62106	16.5	8.0	55.6	36.4	0.1	1.69	2.0	0.069
EP	362	LB34	LB34	41.48809	-71.33678	7/17/06	71706	18.0	2.0	88.7	9.2	0.1	0.69	1.3	0.094
WP	363	LB35	LB35	41.45495	-71.41670	6/21/06	62106	15.5	0.1	89.3	10.6	0.0	0.59	0.7	0.017

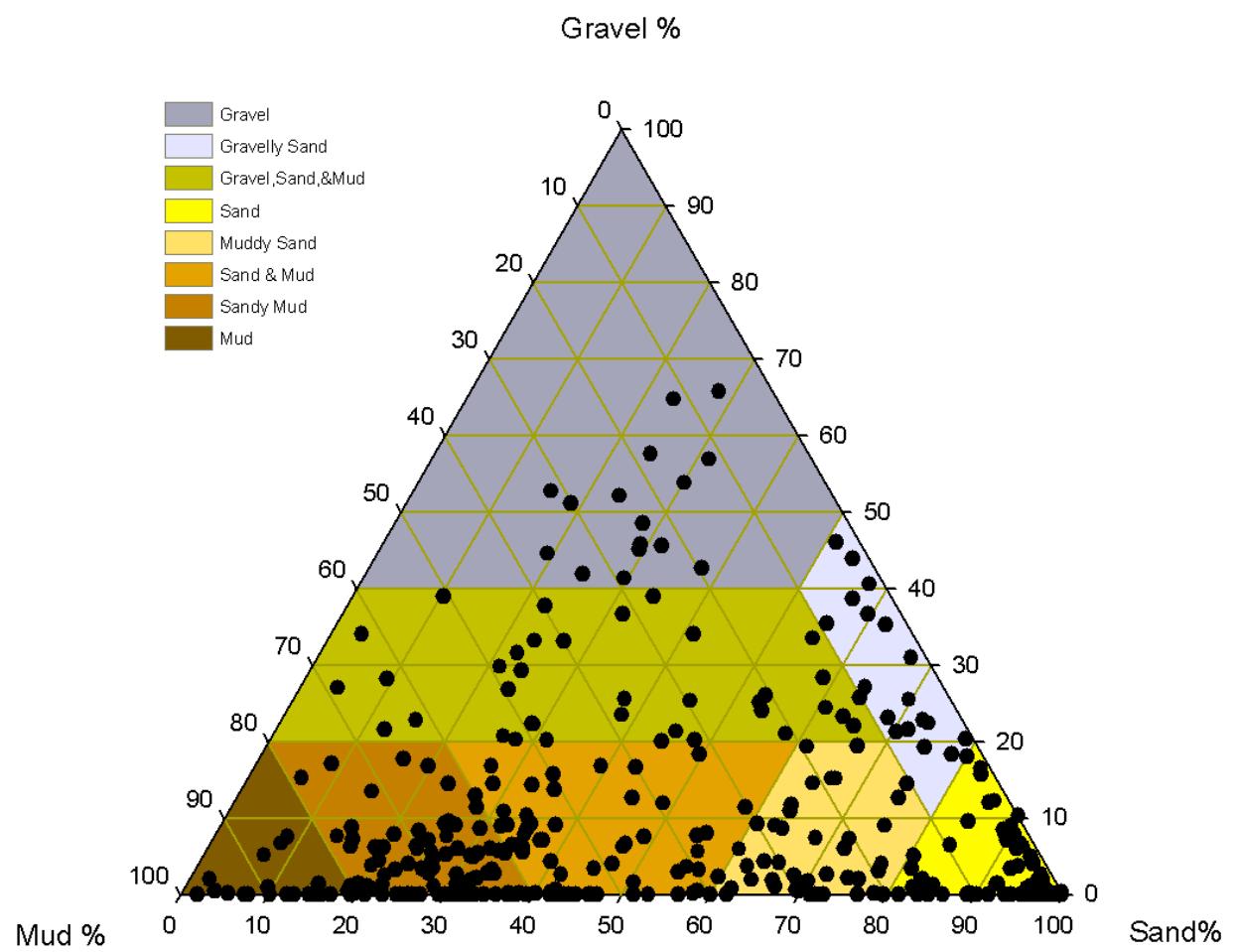
Sample ID	#analyzed	Si	Al	Fe	Mn	Mg	Ca	Na	K	Ti	Cr	Cu	Ni	Pb	Sr	V	Zn
LB15	1	26.90	5.87	3.24	0.045	1.11	2.46	2.60	2.20	0.541	92	40	BD	46	166	80	107
LB16	1	28.99	5.96	2.62	0.033	1.00	0.82	2.58	2.23	0.389	103	29	18	45	135	57	78
LB17	1	28.17	6.06	2.66	0.035	1.12	1.12	3.06	2.27	0.380	59	30	BD	42	150	59	70
LB18	1	28.45	6.04	2.91	0.040	1.16	1.00	2.79	2.15	0.434	70	43	22	48	154	69	71
LB19	1	26.42	6.21	3.02	0.037	1.20	1.22	3.15	2.04	0.392	73	39	26	52	152	70	110
LB20	1	29.85	5.44	2.31	0.035	0.92	1.40	2.72	2.48	0.397	70	25	BD	BD	141	54	64
LB21	1	28.37	5.58	3.06	0.043	0.93	2.37	2.43	2.44	0.409	72	24	BD	BD	177	62	122
LB22	1	29.71	5.79	2.91	0.039	1.02	1.08	2.47	2.21	0.451	85	32	BD	32	159	57	63
LB23	1	26.25	6.09	3.02	0.038	1.19	1.36	3.15	2.04	0.388	77	24	13	38	143	75	87
LB24	1	21.62	4.47	2.78	0.047	0.85	11.56	2.57	1.81	0.339	73	BD	19	42	553	50	BD
LB25	1	27.13	5.76	3.88	0.055	1.08	1.34	3.00	2.19	0.707	124	BD	19	33	152	93	80
LB26	1	28.00	5.44	2.66	0.047	1.04	2.48	3.04	2.06	0.450	70	23	BD	BD	206	68	BD
LB27	2	29.05	5.69	2.51	0.036	0.98	1.42	2.69	2.28	0.389	69	25	19	28	143	56	77
LB28	1	29.35	5.25	3.01	0.053	0.92	1.16	2.81	2.32	0.780	141	BD	BD	BD	167	80	63
LB29	2	25.78	6.00	2.95	0.037	1.17	2.14	3.08	2.10	0.359	84	34	22	39	164	68	93
LB30	1	10.86	2.53	2.34	0.061	0.63	28.44	3.19	1.02	0.261	37	BD	BD	42	1112	46	151
LB31	1	23.60	5.39	2.77	0.036	1.09	5.46	3.25	1.89	0.359	69	BD	21	27	285	63	56
LB32	2	28.94	6.45	3.96	0.054	1.06	1.61	2.52	2.30	0.400	108	50	25	39	158	78	95
LB33	2	27.52	5.49	2.91	0.043	0.97	2.75	2.72	2.27	0.418	75	20	22	BD	188	70	58
LB34	2	29.84	5.33	2.89	0.031	0.84	2.52	2.51	2.27	0.353	77	30	14	56	153	55	127
LB35	1	32.58	4.82	2.10	0.042	0.60	1.44	2.64	2.56	0.404	47	BD	BD	34	172	45	BD

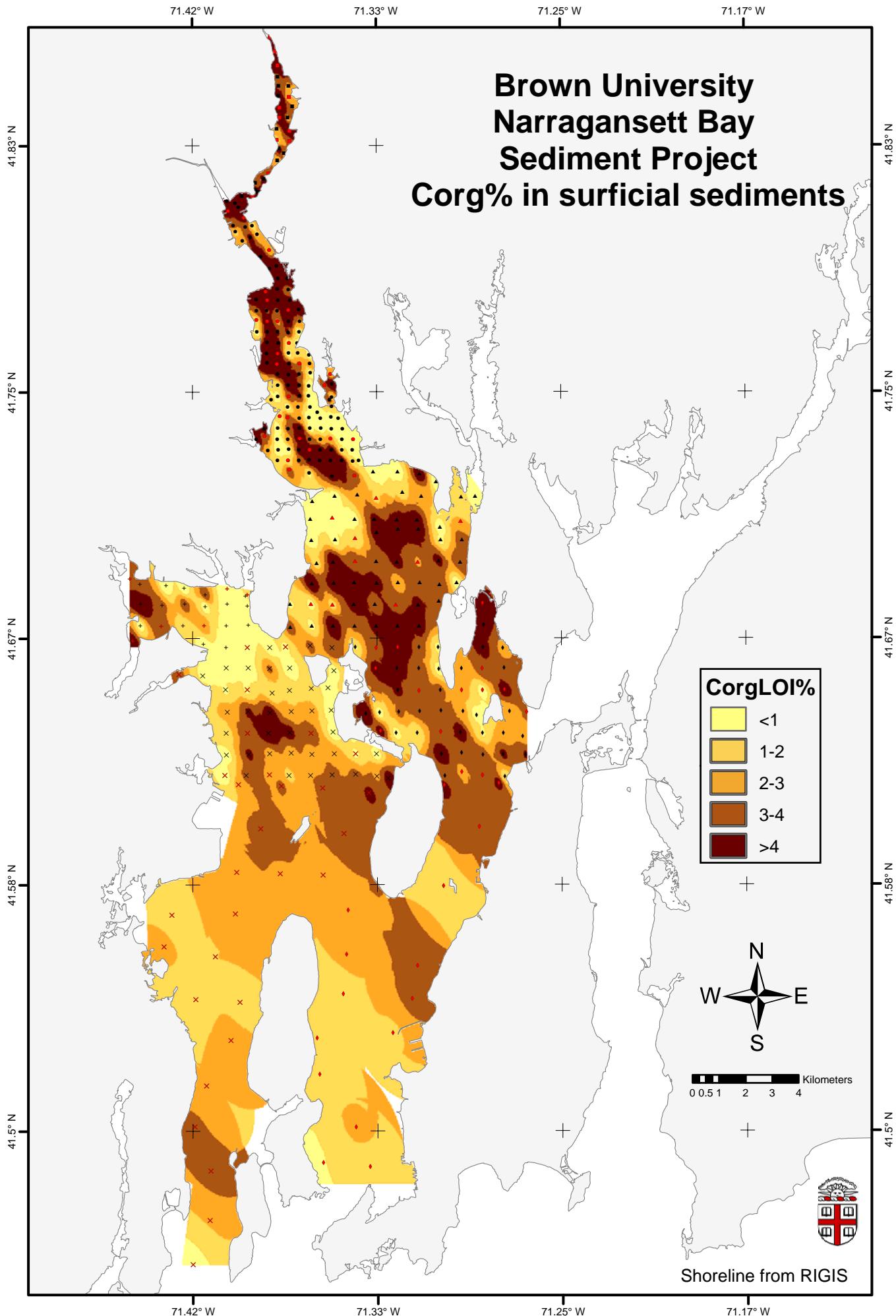


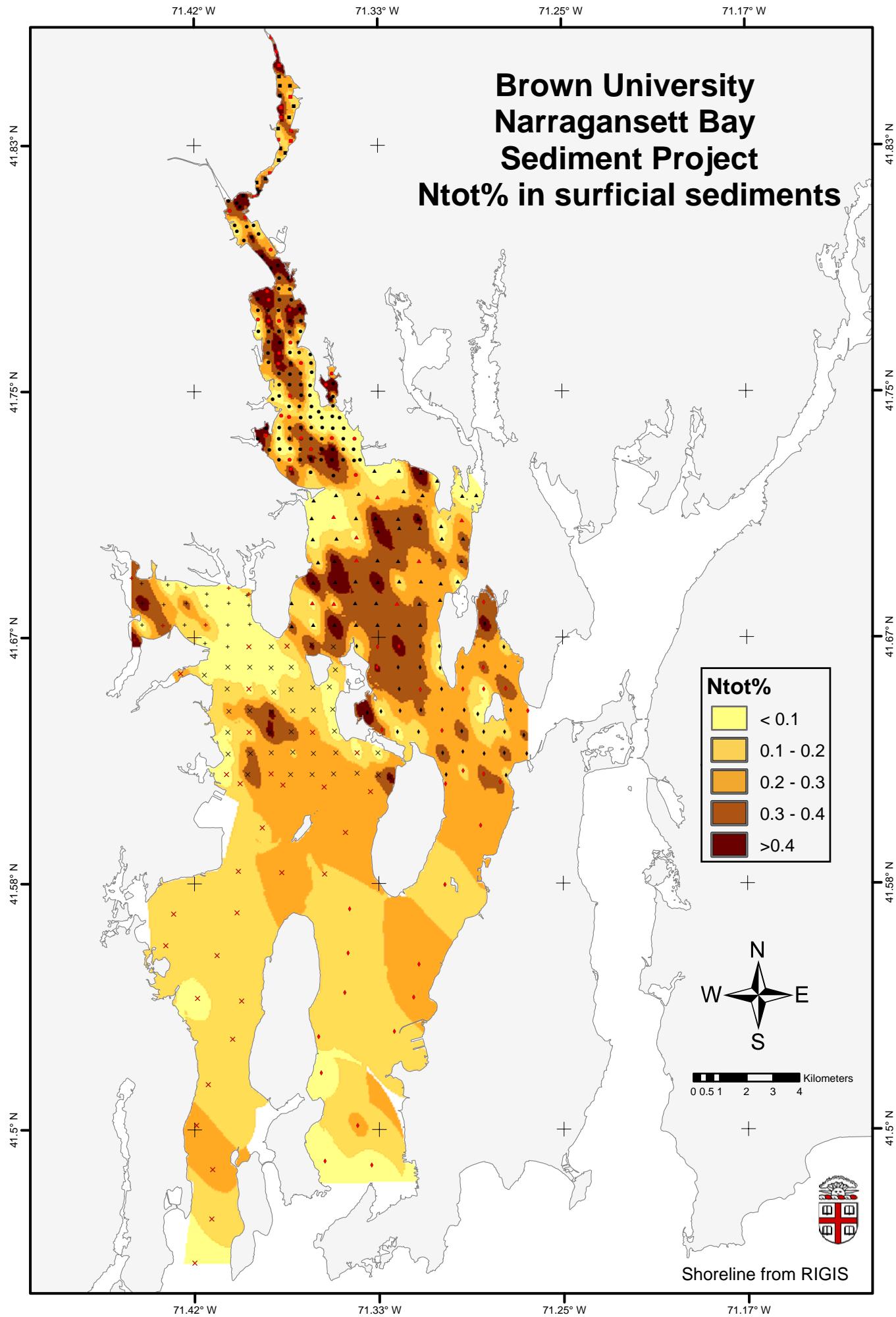


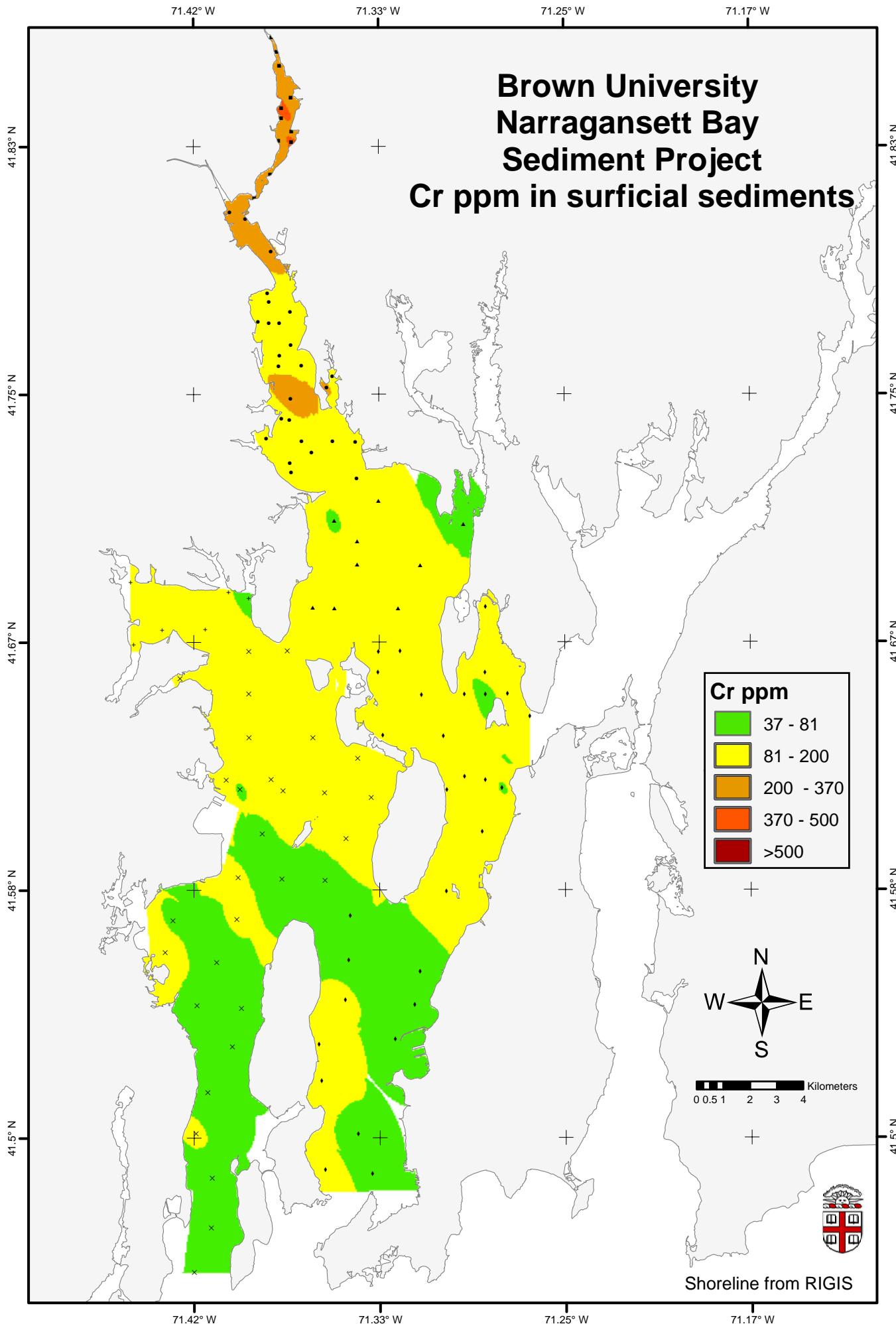


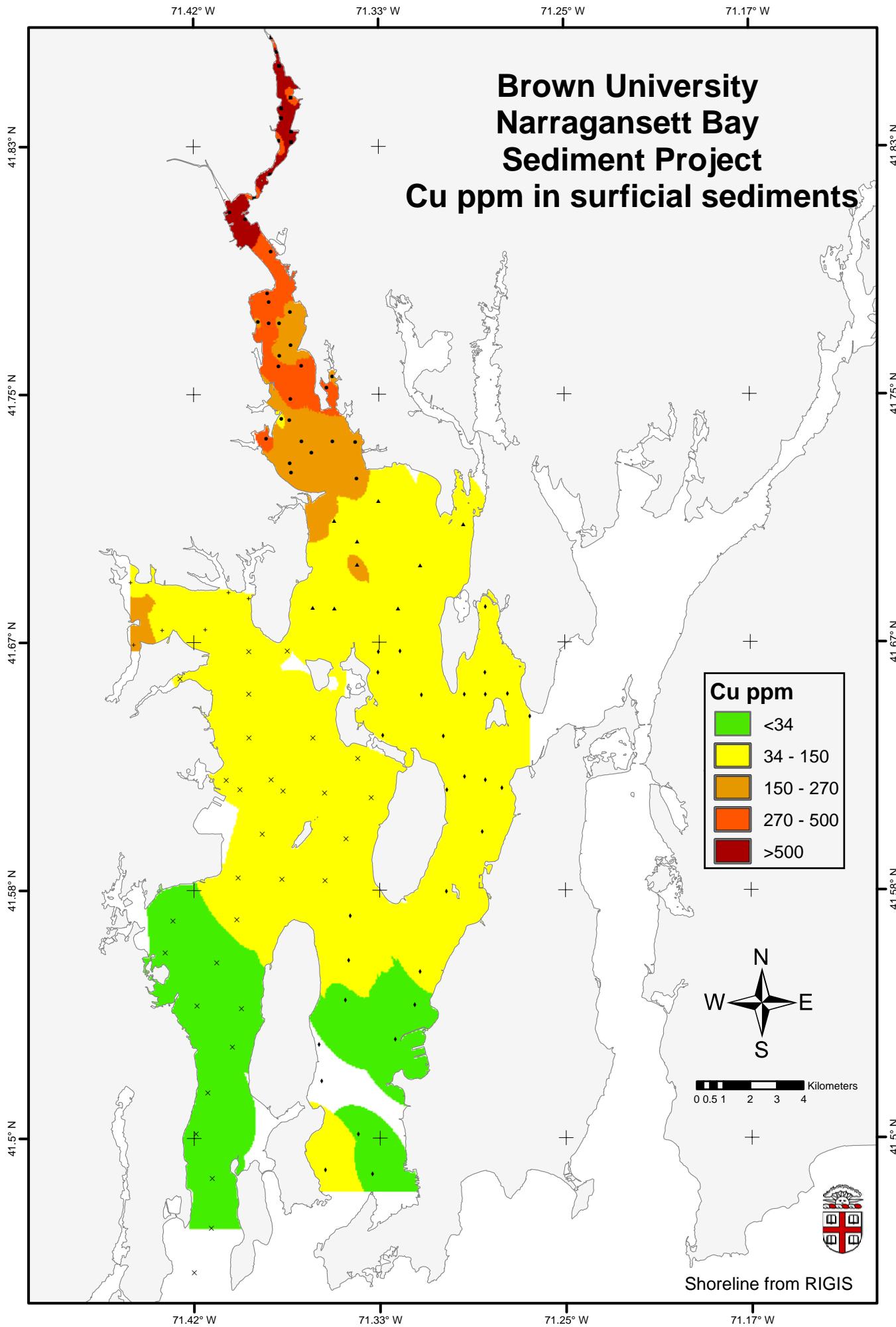
## Grain Size Ternary Diagram





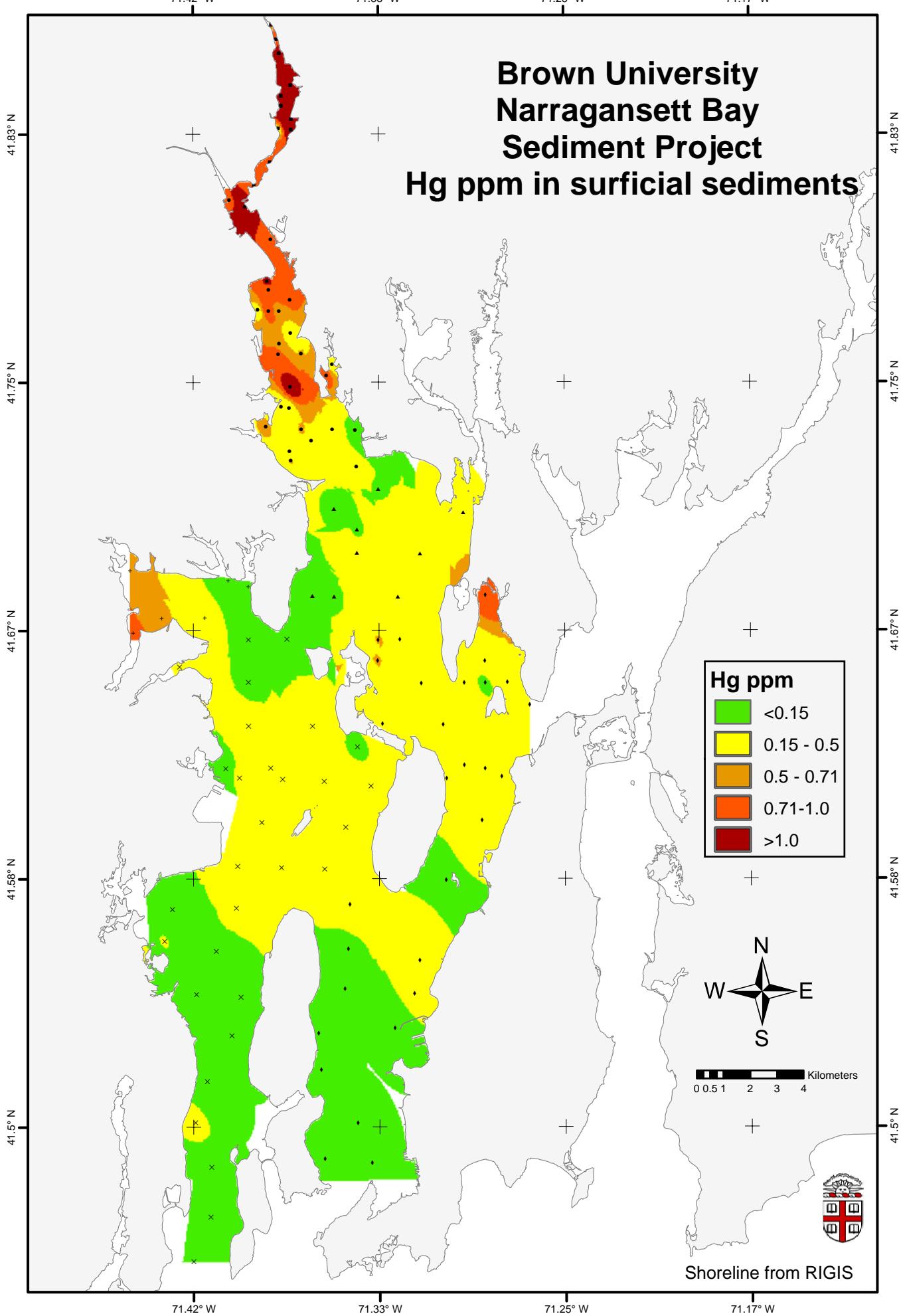


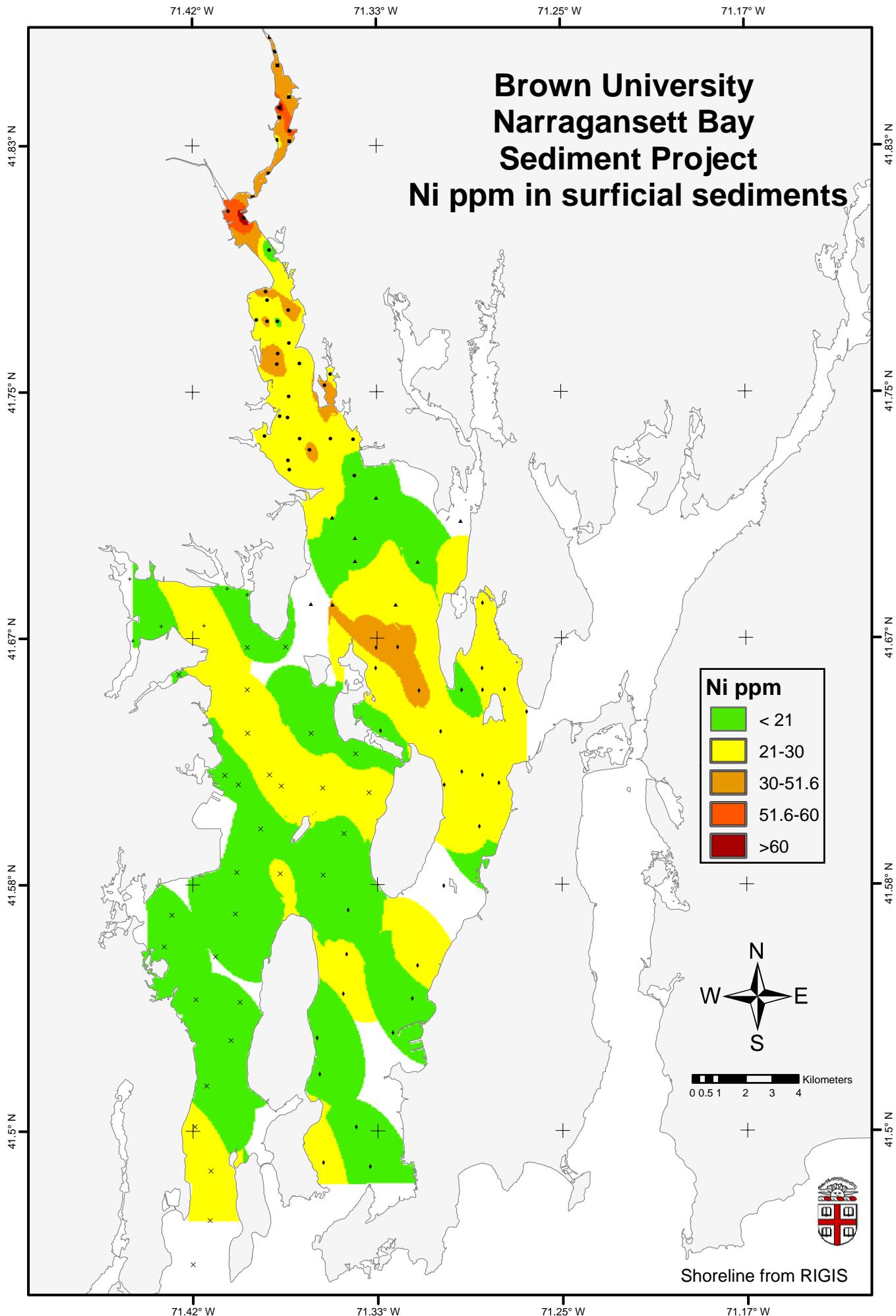


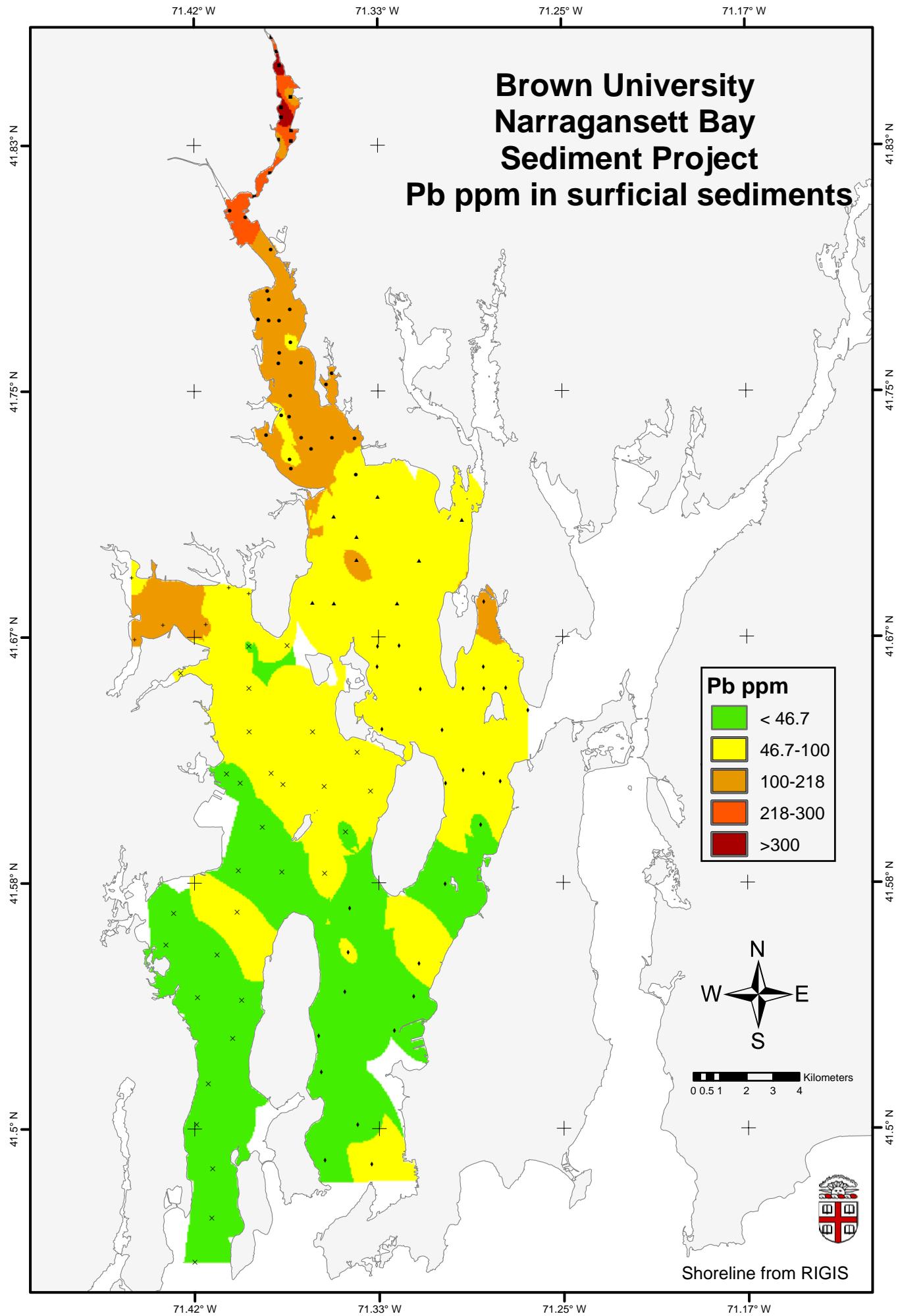


# Brown University Narragansett Bay Sediment Project

## Hg ppm in surficial sediments

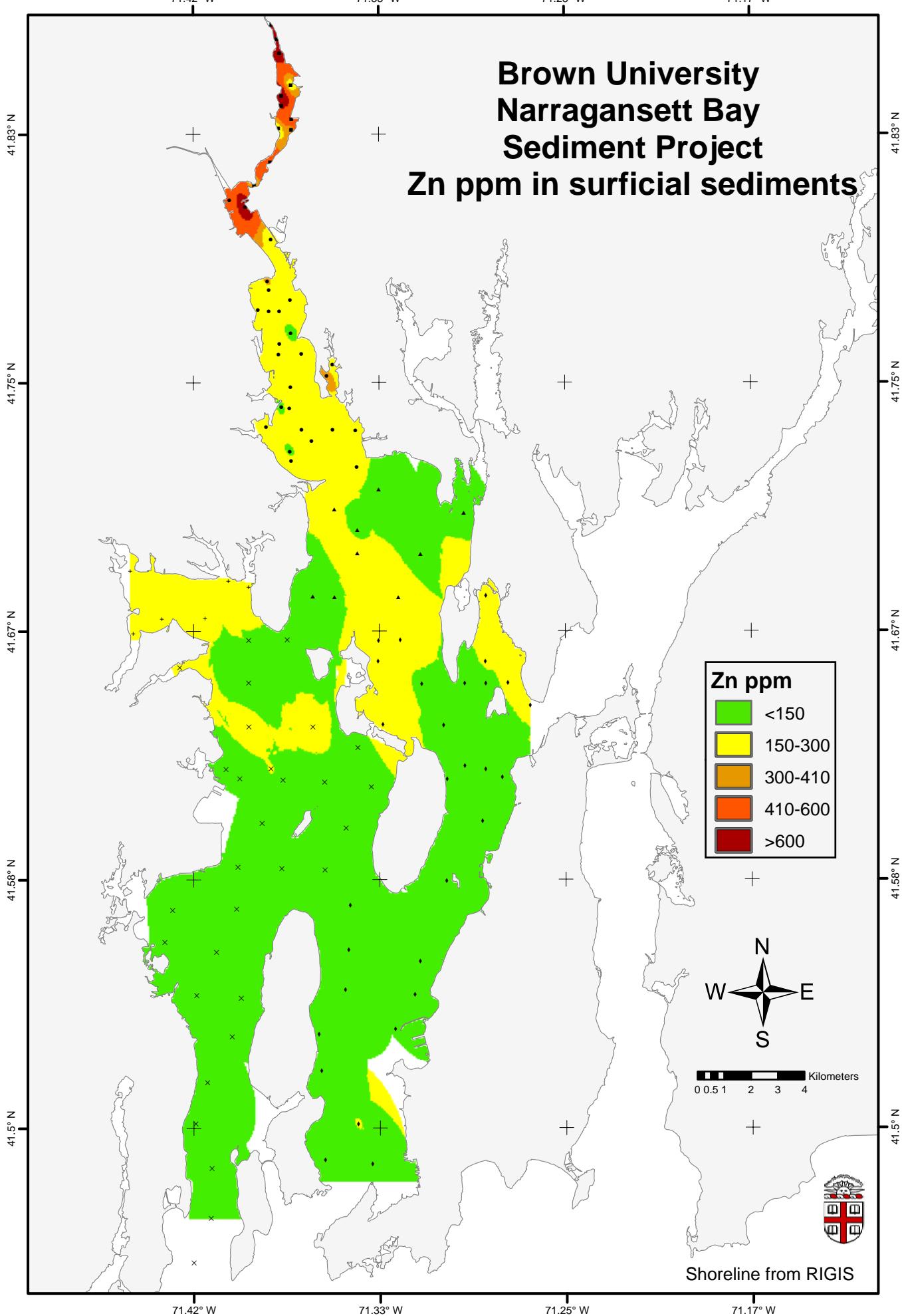




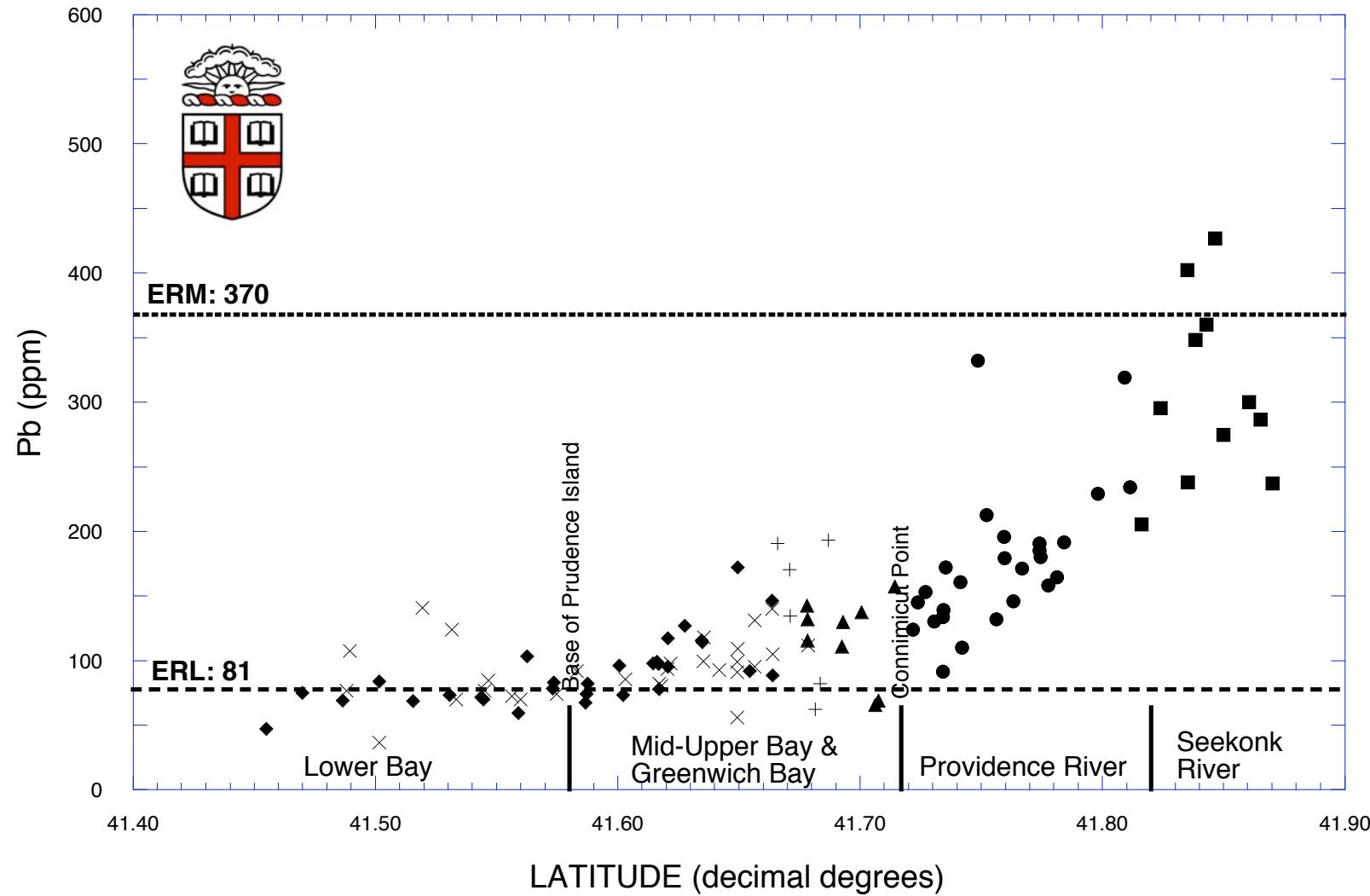


# Brown University Narragansett Bay Sediment Project

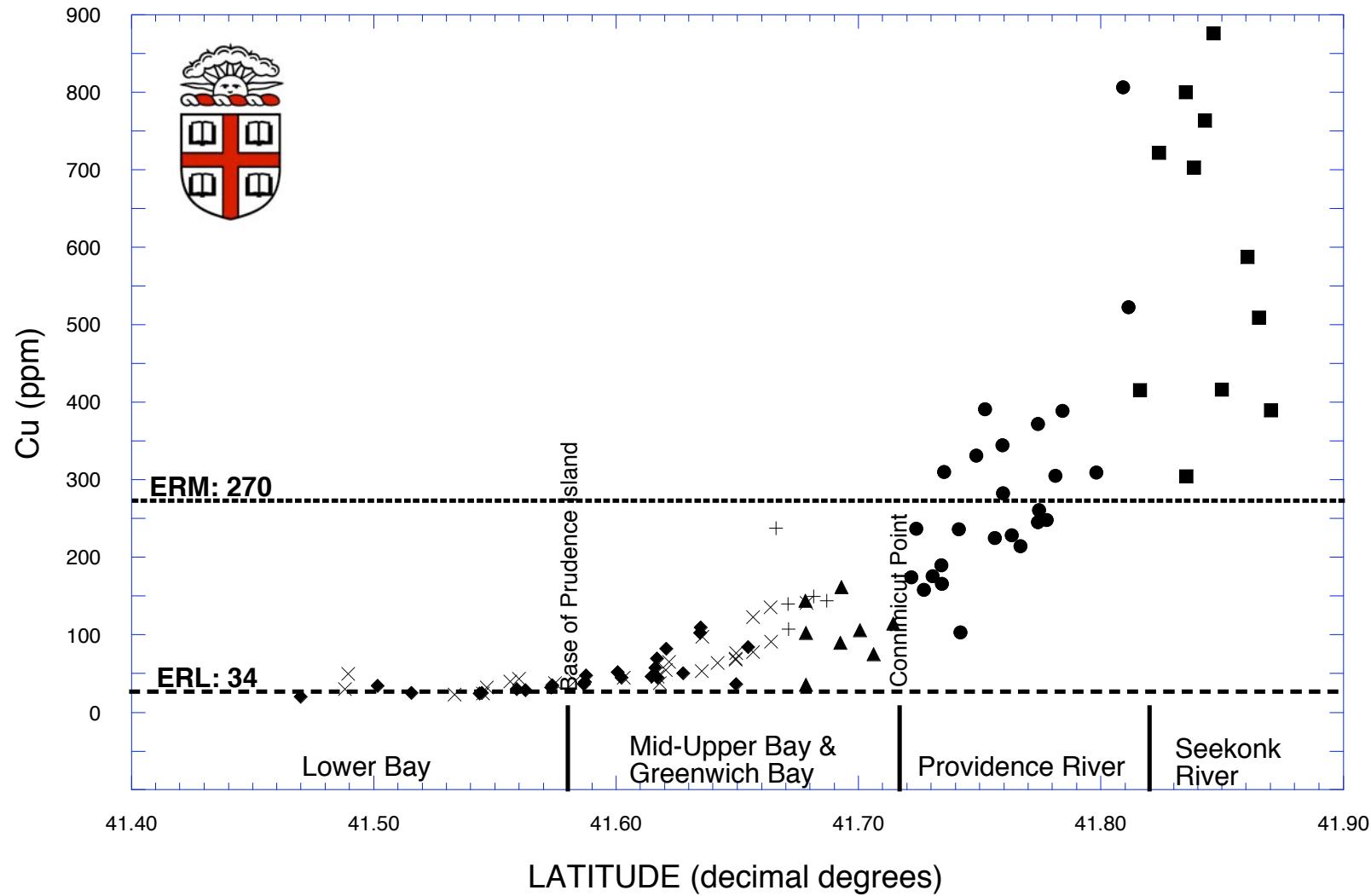
## Zn ppm in surficial sediments



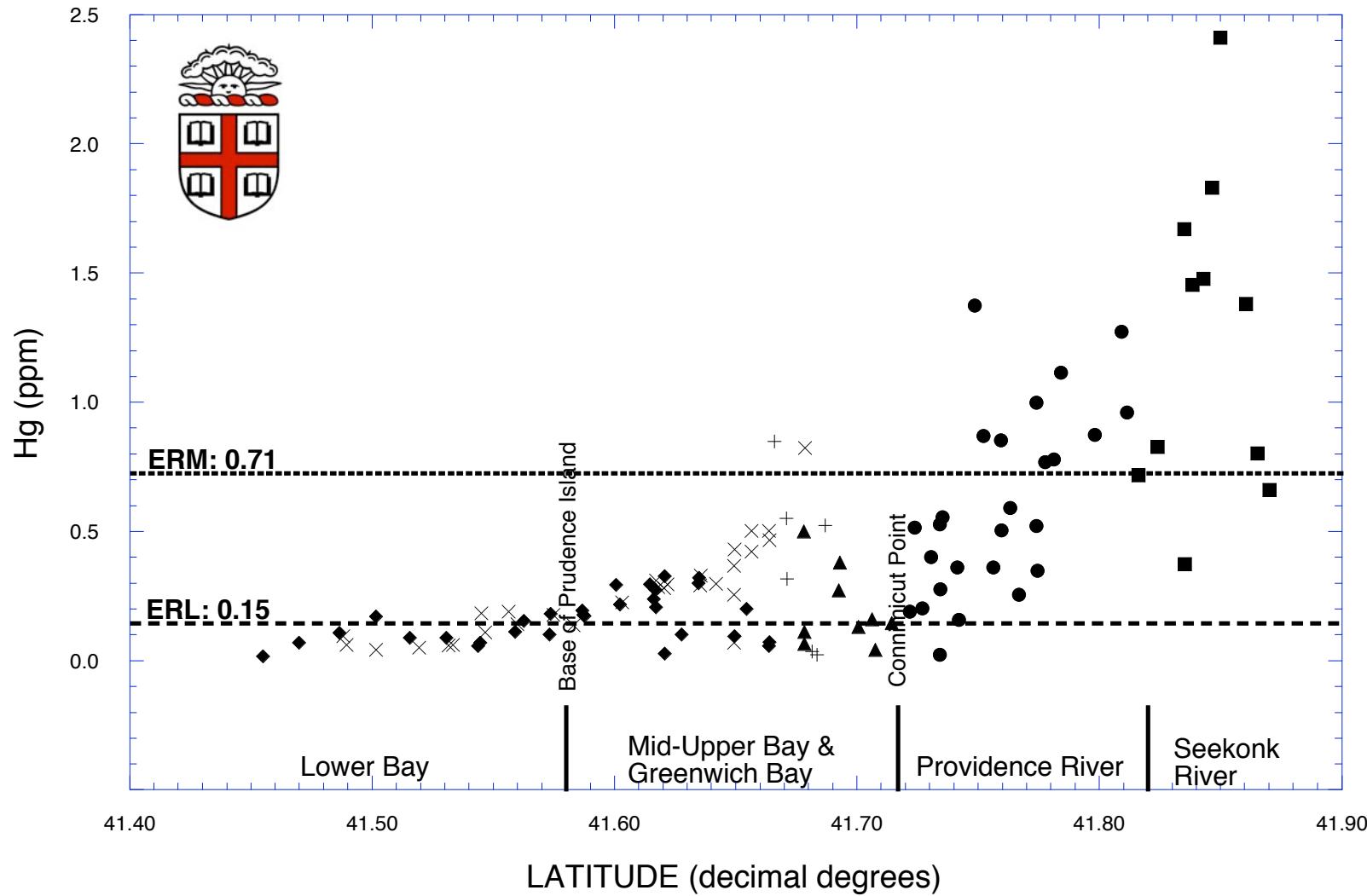
## Chromium vs. Latitude - Surface Sediment Grab Samples



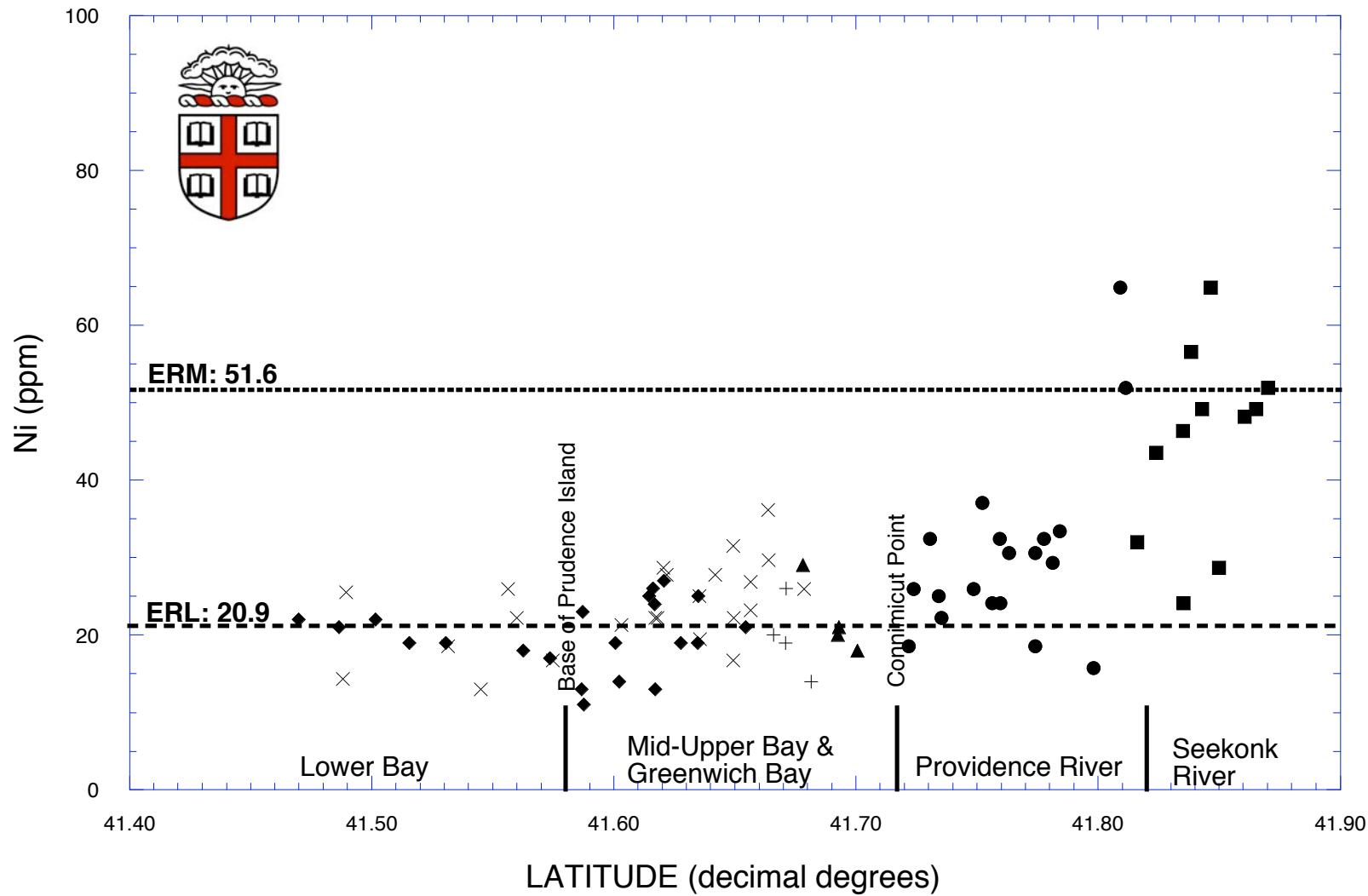
### Copper vs. Latitude - Surface Sediment Grab Samples



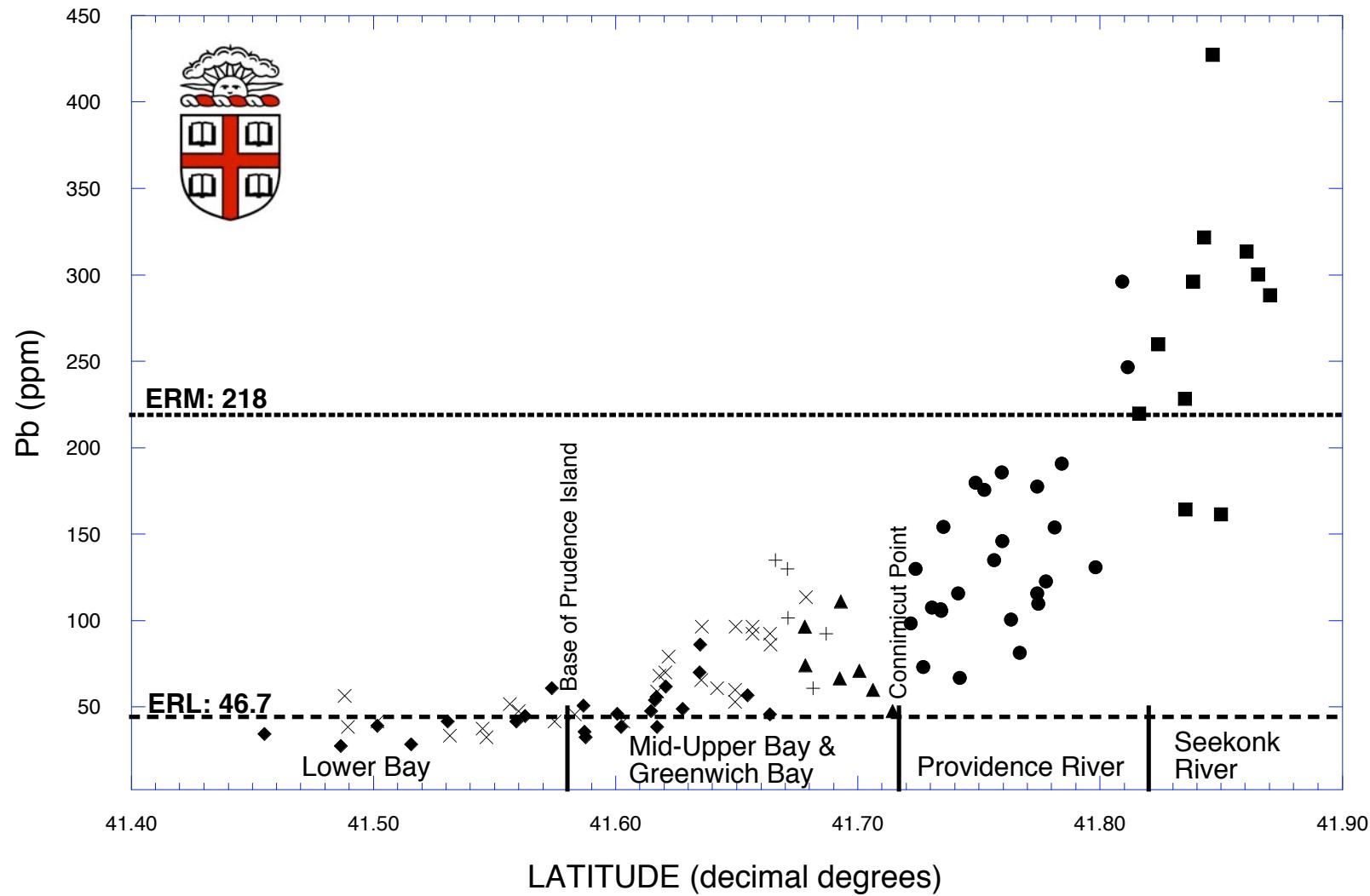
## Mercury vs. Latitude - Surface Sediment Grab Samples



## Nickel vs. Latitude - Surface Sediment Grab Samples



## Lead vs. Latitude - Surface Sediment Grab Samples



### Zinc vs. Latitude - Surface Sediment Grab Samples

