Empire Wind
Pre-Construction Benthic Monitoring Survey Report
New York State Waters

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LIST OF ACRONYMS

ac	acre(s)
As	arsenic
aRPD	apparent redox potential discontinuity
BCA	benthic community analysis
BOEM	Bureau of Ocean Energy Management
Cd	cadmium
cm	centimeter(s)
CMECS	Coastal and Marine Ecological Classification Standard
CTD	conductivity, temperature, and depth
Cu	copper
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
DDx	sum of 4,4'-DDD, 4,4'-DDE, and 4,4'DDT
DSLR	digital single-lens reflex
Eh	redox potential
EPA	Environmental Protection Agency
EW 1	Empire Wind 1
EW 2	Empire Wind 2
Empire	Empire Offshore Wind LLC
ft	feet
GEBCO	General Bathymetric Chart of the Ocean
ha	hectare(s)
Hg	mercury
Hz	Hertz
INSPIRE	INSPIRE Environmental, Inc.
km	kilometer(s)
KP	kilometer point
LPIL	lowest practical identification level

m	meter(s)
MB	megabytes
MDL	method detection limit
mi	statute mile(s)
mL	milliliter(s)
mm	millimeter(s)
MS/MSDs	matrix spike/matrix spike duplicates
mv	millivolt(s)
NEF	Nikon Electronic Format
NEMESIS	National Exotic Marine and Estuarine Species Information System
nm	nautical mile(s)bay
NOAA	National Oceanic and Atmospheric Administration
NOAA NCEI	NOAA National Centers for Environmental Information
NYDPS	New York Department of Public Service
NYSDEC	New York State Department of Environmental Conservation
OSS	offshore substations
PAHs	polyaromatic hydrocarbon
Pb	lead
PCBs	polychlorinated biphenyls
POIs	Points of Interconnection
PSD	Photoshop Document
PSU	Practical Salinity Unit
PV	Plan View Imaging
QA	quality assurance
QC	quality control
R/V	Research Vessel
SOD	sediment oxygen demand
SPI	Sediment Profile Imaging
TOGS	Technical and Operational Guidance Series
VDC	volts, direct current
WEA	Wind Energy Area

EXECUTIVE SUMMARY

INSPIRE Environmental conducted a benthic survey along the New York (NY) state waters portion of the planned Empire Wind 1 (EW 1) export cable route. The objective of this survey was to characterize seafloor conditions, including the collection of geophysical, biological, and chemical parameters, prior to the installation of the EW 1 export cable. The survey design and sampling approach is described in detail within the *Empire Wind 1 New York State Benthic Sampling Plan* (INSPIRE 2023) that was developed from discussions with local and state agencies through the New York Article VII permitting process. Following EW 1 cable installation, the baseline data obtained during this 2023 survey will be compared to post-construction benthic survey results to assess any effects resulting from installation activities and operation of the EW 1 export cable.

The benthic survey was conducted 30 August to 1 September 2023 onboard the Research Vessel *Atlantic Surveyor.* Sampling included the collection of a total of 91 Sediment Profile and Plan View Imaging (SPI/PV) stations, 46 sediment grab stations for grain size analysis and benthic community analysis (BCA), and 39 sediment grab stations for chemistry analyses. Results of the BCA will be reported later as an addendum to this report. Water column profiles of temperature and salinity as well as surficial sediment temperature readings were collected at all 91 SPI/PV stations. To facilitate reporting and discussion of the findings, the stations were grouped by general geographic areas along the planned EW 1 export cable route, which included the northernmost portion of the planned export cable located along the Bay Ridge Channel, the portion extending through the Verrazano Narrows, within Gravesend Bay, west and southwest of Coney Island into the Lower Bay, and the Offshore stations along the Ambrose Channel extending to the NY state waters boundary. The sediment chemistry results were presented alongside the range of threshold levels for Class B sediments provided by New York State Department of Environmental Conservation's (NYSDEC) Technical and Operational Guidance Series (TOGS) 5.1.9 (NYSDEC 2004); these threshold values are based on known and presumed impacts on aquatic organisms or the ecosystem and are typically used as benchmarks to inform management decisions and develop management plans for dredged material disposal.

Measured depth profiles of temperature and salinity revealed generally well-mixed water columns at every station. Mean water column temperature tended to decrease as sampling moved further offshore, while mean water column salinity tended to increase slightly offshore relative to the nearshore stations. Water temperatures tended to be homogeneous throughout the water column, exhibiting limited variation in temperature between the surface and the bottom waters. The water column tended to be well mixed at all stations, and very few stations had clear thermoclines. Water column salinity tended to increase slightly with depth at many stations, in particular at the stations in the Bay Ridge Channel, Verrazano Narrows, and Gravesend Bay. The halocline slope and depth varied across stations.

Physical characteristics and biological functional features were obtained from SPI/PV imagery and described using Coastal and Marine Ecological Classification Standard (CMECS; FGDC

2012), which revealed clear spatial gradients along the planned EW 1 export cable route. These observations were coupled with the results of the sediment grab sample analyses of grain size distributions and chemical concentrations. In general, the grain size analysis results corroborated the sediment types observed in the SPI/PV imagery, providing more resolution on the grain size composition at each sampled station. Sediment chemistry analysis revealed generally higher levels of metals, pesticides, total polyaromatic hydrocarbons (PAHs), and total polychlorinated biphenyls (PCBs) at the stations in the northern portion of the planned EW 1 export cable route, specifically along the Bay Ridge Channel and the northern region of the Verrazano Narrows.

The sediments in the northern portions of the planned EW 1 export cable route, including the stations along the Bay Ridge Channel as well as in Gravesend Bay, were composed of soft silt/clay or very fine sand. Several lines of evidence in these areas suggested relatively high sediment oxygen demand, including relatively shallow apparent redox potential discontinuity (aRPD) depths and instances of methane bubbles present in the sediment column. Despite this, deep burrowing deposit feeders were frequently observed, or their presence inferred from feeding voids, suggesting a relatively mature successional stage infaunal community. The chemical constituents measured at the Bay Ridge Channel were more frequently above the respective lower threshold values for Class B sediments, and sometimes above the higher threshold values (e.g., total PCBs, total chlordane, and mercury), compared to the other regions surveyed along the cable route. Within Gravesend Bay total PCBs, total PAHs, and metals levels were typically lower than the respective lower threshold values for Class B sediments, with the exception of mercury; pesticides (total chlordane and total DDx) were often above the respective lower threshold values for Class B sediments.

Through the Verrazano Narrows, seafloor substrates were spatially variable ranging in CMECS Substrate Subgroups from Silt/Clay to Sandy Gravel and Shell Hash. Infaunal successional stages were documented as intermediate (Stage 2 or Stage 1->2), which is typical in benthic environments that are exposed to frequent hydrodynamically-driven physical disturbances (e.g., strong tidal exchange and currents). In general, the chemical constituents analyzed at stations through the Verrazano Narrows were intermediate in concentrations relative to the other spatial groups along the planned EW 1 export cable. At most of the Verrazano Narrows stations, the majority of analyzed chemical constituents were below the respective lower threshold for Class B sediments, with the exception of pesticides (total chlordane, total DDx), total PAHs, lead, and mercury, which had measurements above the respective lower threshold values but typically below the respective upper threshold values for Class B sediments.

The portion of the planned EW 1 export cable route located at the south end of Gravesend Bay and into the Lower Bay region (west and southwest of Coney Island) was characterized by a surficial shell layer composed of aged shells derived from blue mussels, eastern oyster, clams, and *Crepidula.* At these stations the surficial shell material overlaid silt/clay and very fine sand and was colonized by mobile and sessile epifauna, although percent cover of attached epifauna was generally low. The remaining portion of the planned EW 1 export cable route within the

Lower Bay region consisted of a variety of sands including distributions of very fine sand, medium sand, and coarse sand; at these stations the presence of sand ripples were frequently observed on the sediment surface. The chemical constituents measured at the stations located in the Lower Bay region of the planned EW 1 export cable route were typically lower than the other geographic regions and almost always below the respective lower threshold values for Class B sediments. One exception to this was total chlordane, levels of which exceeded the lower threshold value but were below the upper threshold value for Class B sediments.

The sediments at the stations in the Offshore region of the planned EW 1 export cable route were generally composed of coarser sand relative to the other regions of the route. One station in the Offshore region was characterized by live mussels on sand (Mussel Reef Substrate [CMECS Substrate Subgroup]). Sand ripples on the seafloor were observed at nearly all Offshore stations indicating high hydrodynamic energy in this area. Given the sandy nature and the frequent natural physical disturbance of the surface sediments at the Offshore stations of the cable route, aRPD depths and infaunal successional stage classifications were often indeterminate. The benthic environment at these Offshore stations is typical of regions with higher hydrodynamic energy, inhabited by benthic organisms adapted to frequent natural physical disturbances. Chemical analyses were not conducted on any of the stations in the Offshore portion of the planned EW 1 export cable route.

Overall, the benthic conditions observed during this survey were consistent with results from the 2019 benthic assessment survey along this planned cable route and described in the Empire Wind Construction and Operations Plan (COP), Appendix T, Benthic Resources Characterization Report (INSPIRE 2019a). The results from this study will serve as pre-construction baseline conditions that will allow for the monitoring of effects associated with cable installation and operations following construction of the EW 1 export cable.

1.0 INTRODUCTION

1.1 Overview of Proposed Action

Empire Offshore Wind LLC (Empire) proposes to construct and operate an offshore wind farm located in the designated Renewable Energy Lease Area OCS-A 0512 (Lease Area). The Lease Area covers approximately 79,350 acres (ac; 32,112 hectares [ha]) and is located approximately 14 statute miles (mi) (12 nautical miles [nm], 21 kilometers [km]) south of Long Island, New York and approximately 20 mi (17 nm, 31 km) east of Long Branch, New Jersey (Figure 1-1). The Lease Area was awarded through the Bureau of Ocean Energy Management (BOEM) competitive renewable energy lease auction of the Wind Energy Area (WEA) offshore of New York.

Empire proposes to develop the Lease Area in two wind farms, known as Empire Wind 1 (EW 1) and Empire Wind 2 (EW 2). EW 1 and EW 2 will be electrically isolated and independent from each other. Each wind farm will connect via offshore substations (OSS) to separate Points of Interconnection (POIs) at onshore locations by way of export cable routes and onshore substations. In this respect, the Project includes two onshore locations in New York where the renewable electricity generated will be transmitted to the electric grid.

The Project will include up to 66 nm (122 km) of submarine export cables, consisting of up to two routes to New York:

- Up to 40 nm (74 km) to the EW 1 landfall (Brooklyn, NY), of which 16 nm (30 km) are in state waters; and
- Up to 26 nm (48 km) to the EW 2 landfall (Oceanside, NY), of which 8 nm (15 km) are in state waters.

1.2 Benthic Survey Objectives

This benthic survey was aimed at conducting a pre-construction benthic assessment along the proposed EW 1 export cable corridor within New York state waters in agreement with state and local agencies. The focus of this benthic survey was the EW 1 export cable route, which transits away from the Lease Area from its northeastern boundary and continues north-northwest towards Lower New York Bay (Figure 1-1). The EW 1 runs parallel to the Ambrose Channel as it enters Lower New York Bay, transits through the Verrazano Narrows on the eastern side and makes landfall in Brooklyn, NY.

The objective of this survey was to characterize seafloor conditions, including the collection of geophysical, biological, and chemical parameters, prior to the installation of the EW 1 export cable. Specifically, the *Empire Wind 1 Benthic Sampling Plan New York State Waters* was designed to characterize and summarize baseline benthic conditions and sediment chemical levels observed prior to cable installation within New York state waters, and subsequently

monitor post-installation benthic conditions and chemical levels to assess any effects resulting from installation activities and operation of the EW 1 export cable (INSPIRE 2023). Sediment Profile and Plan View Imaging (SPI/PV) in combination with sediment grab samples, sediment temperature measurements, and water column temperature and salinity profile measurements were used to meet the benthic assessment goals for this pre-construction benthic survey as described in more detail below.

2.0 METHODS

INSPIRE collected SPI/PV imagery, conductivity, temperature, and depth (CTD) data, sediment grab samples (for benthic community analysis [BCA], grain size analysis, and specific chemical analyses), and surficial sediment temperature along the proposed EW 1 export cable to document baseline conditions prior to the commencement of seafloor preparation and construction activities. Target station locations align with the survey design specified in the *Empire Wind 1 Benthic Sampling Plan New York State Waters* (INSPIRE 2023).

A total of 91 stations were sampled along the EW 1 export cable during the pre-construction benthic survey in New York state waters in August and September 2023 during 24-hour operations onboard the Research Vessel (R/V) *Atlantic Surveyor* (Figure 2-1; Appendix A).

2.1 Survey Design

A total of 91 stations were sampled with SPI/PV and CTD, and sediment grabs were collected at 46 of these stations for BCA and grain size (triplicate sediment grab samples at each station). Of the 91 SPI/PV stations, 13 of them were also sampled for sediment chemistry analysis plus an additional 26 stations (39 total), positioned 100 feet on either side of the export cable route centerline, were sampled for sediment chemistry analyses (Figure 2-1).

This baseline survey consisted of a SPI/PV station every 1,000 feet (ft) along the proposed EW 1 export cable route within New York state waters (Figure 2-1). The exact locations of the stations were discussed with representatives of the New York State Department of Environmental Conservation (NYSDEC) and New York Department of Public Service (NYDPS) during a webinar on August 18, 2023. At each SPI/PV station, a CTD Cast-away system was used to measure the salinity and temperature through the water column to the sediment surface. Additionally, the temperature of the surficial sediments was measured at each SPI/PV station using a small temperature logger fastened to the CTD Cast-away system (i.e., STAR ODDI, DST milli-TD).

Sediment grab samples were collected in triplicate every 2,000 ft along the proposed EW 1 export cable route within New York state waters (Figure 2-1). Sediment subsamples were collected from each acceptable grab sample for grain size analysis and the remaining sediment sample was sieved and preserved onboard the vessel for BCA. At these sediment grab stations, a minimum of three replicate grab samples were collected and analyzed for BCA and grain size analysis by standard Environmental Protection Agency (EPA) approved protocols (Swartz

2004). Results of the BCA were not available at the time of writing and will be reported at a later date as an addendum to this report.

Sediment samples were also collected for chemistry analyses from kilometer point (KP) 15.0 north to the landfall during pre-construction sampling along the EW 1 export cable route within New York state waters, as determined during consultation with New York state agencies (Figure 2-1). Sediment grab stations for chemistry analyses were located along transects perpendicular to the cable route every 4,000 ft from KP 15.0 northward along the EW 1 export cable route. At each transect, one chemistry grab station was sited as close as practicable to the proposed cable centerline (station co-located with every other 2,000 ft interval SPI/PV and BCA, grain size station) and two chemistry grab stations were located approximately 100 ft on either side of the center grab sample (Figure 2-1). The top 2 centimeters (cm) were collected from the acceptable sediment grab sample surface using a cut-off syringe corer marked to delineate a 2-cm depth. Several subsample cores were collected from the grab sample to ensure sufficient sediment volume for the chemical analyses. Only one chemistry sample was collected at each chemistry station (i.e., not triplicate samples as the BCA and grain size samples were collected).

2.2 Navigation

Navigation software was used for positional data acquisition and navigating the vessel to the sampling stations. When the vessel was within a 7.5-meter (m) radius of the target location, the camera system, grab sampler, or CTD system was lowered to the seafloor. The navigator electronically recorded the vessel's position and water depth when the camera system or grab sampler contacted the seafloor and the winch wire went slack.

2.3 Sediment Profile and Plan View Image Collection

SPI/PV imaging is a monitoring technique used to provide data describing the physical characteristics of the seafloor and the benthic biological community (Germano et al. 2011). SPI/PV imaging is a powerful reconnaissance tool that can efficiently map gradients in sediment type, biological communities, and disturbances from physical forces. As an observational approach, SPI/PV data are a snapshot in time and space of the benthic environment, and through interpretation and analysis can provide information on the dynamic processes that shape the physical and biological characteristics of the seafloor; these interpretations should be considered hypotheses available for further testing/confirmation.

2.3.1 Sediment Profile Image Collection

The SPI technique involves deploying an underwater camera system to photograph a cross-section of the sediment–water interface. High-resolution SPI images were acquired using a Nikon® D7100 digital single-lens reflex (DSLR) camera mounted inside an Ocean Imaging® Model 3731 pressure housing. The pressure housing sat atop a wedge-shaped steel prism with a plexiglass front faceplate and a back mirror, that was mounted at a 45° angle. The camera lens looked down at the mirror, which reflected the image from the faceplate. The prism had an

internal strobe mounted inside at the back of the wedge to provide illumination for the image; this chamber was filled with distilled water, so the camera always had an optically clear path. The descent of the prism into the sediment was controlled by a hydraulic piston. As the prism penetrated the seafloor, a trigger activated a time-delayed circuit that fired the internal strobe to obtain a cross-sectional image of the upper sediment column (Figure 2-2). The camera remained on the seafloor for approximately 20 seconds to ensure that successful images were obtained.

Test exposures of a Color Calibration Target were made on deck at the beginning of the survey to verify that all internal electronic systems were working to design specifications and to provide a color standard against which final images could be checked for proper white balance. Test images were also captured to confirm proper camera settings for site conditions. For this survey, the SPI camera ISO-equivalent was set at 100, the shutter speed was 1/250s, and the f-stop was f5.6. Images were stored in compressed raw Nikon Electronic Format (NEF) files (approximately 30 megabytes [MB] each). Images were checked periodically throughout the survey to confirm that the initial camera settings were still resulting in the highest quality images possible. All camera settings were recorded in the field log (Appendix B). Details of the camera settings for each digital image are also available in the associated parameters file embedded in each electronic image file.

When the camera was periodically brought back on board (Appendix B), the frame counter was checked to ensure that the requisite number of replicates had been obtained. In addition, a prism penetration depth indicator on the camera frame was checked to verify that the optical prism had penetrated the bottom to a sufficient depth. If images were missed or the penetration depth was insufficient, the camera frame stop collars were adjusted and/or weights were added or removed, and additional replicate images were taken. Frame counts, time of image acquisition, water depth, frame stop-collar position, and the number of weights used were recorded in the field log for each replicate image (Appendix B). Visual checks and hand-tightening checks of all nuts and bolts on the SPI/PV camera frame were conducted periodically to make sure nothing vibrated loose during the survey.

Prior to field operations, the internal clock in the digital SPI system was synchronized with the vessel's navigation. Each image was assigned a unique time stamp in the digital file attributes by the camera's data logger and cross-checked with the time stamp in the navigational system's computer data file. Digital image files were renamed with the appropriate station names after downloading as a further quality assurance step.

2.3.2 Plan View Image Collection

Plan view images of the seafloor surface were collected using an Ocean Imaging® Model DSC24000 underwater camera system with two Ocean Imaging® Model 400-37 Deep Sea Scaling lasers, which were attached to the sediment profile camera frame. Both SPI and PV images were collected during each "drop" of the system. The PV system consisted of a Nikon® D7200 DSLR camera encased in a pressure housing, a 24-VDC autonomous power pack, a

500-W strobe, and a bounce trigger. A weight was attached to the bounce trigger with a stainless-steel cable so that the weight hung below the camera frame; the scaling lasers projected two red dots that were separated by a constant distance (26 cm) regardless of the field of view of the PV system. The field of view can be varied by increasing or decreasing the length of the trigger wire and, thereby, the camera height above the bottom when the picture is taken. As the SPI/PV camera system was lowered to the seafloor, the weight attached to the bounce trigger contacted the seafloor prior to the camera frame reaching the seafloor and triggered the PV camera (Figure 2-2).

During the set-up and testing of the PV camera, the positions of lasers on the PV camera were checked and calibrated to ensure a separation of 26 centimeters (cm). Test images were also captured to confirm proper camera settings for site conditions. For this benthic survey, the PV camera ISO-equivalent was set at 500, the shutter speed was 1/15s and the f-stop was f13. Images were stored in compressed raw NEF files (approximately 30 MB each). Images were checked periodically throughout the surveys to confirm that the initial camera settings were still resulting in the highest quality images possible. All camera settings were recorded in the field log (Appendix B). Details of the camera settings for each digital image also are available in the associated parameters file embedded in each electronic image file.

Prior to field operations, the internal clock in the digital PV system was synchronized with the vessel's navigation system and the SPI camera. Each image was assigned a unique time stamp in the digital file attributes by the camera's data logger and cross-checked with the time stamp in the navigational system's computer data file. In addition, the field crew kept redundant field logs (Appendix B). Throughout the surveys, PV images were downloaded at the same time as SPI and were evaluated for successful image acquisition and image clarity. Digital image files were renamed with the appropriate station names after downloading as a further quality assurance step.

The ability of the PV system to collect usable images is dependent on the clarity of the water column. Water conditions during this survey allowed the use of a 36-inch (0.91-m) trigger wire, resulting in a mean image width of 0.8 m and a mean field of view of 0.42 m^2.

2.3.3 Image Conversion and Calibration

Following the completion of field operations, quality control checks were conducted of filenames, date/time stamps, and the field log. After these procedures, the NEF raw image files were color calibrated in Adobe Camera Raw® by synchronizing the raw color profiles to the Color Calibration Target that was photographed prior to field operations with the SPI camera. The raw SPI and PV images were then converted to high-resolution Photoshop Document (PSD) format files, using a lossless conversion file process and maintaining an Adobe RGB (1998) color profile. The PSD images were then calibrated and analyzed in Adobe Photoshop®. Length and area measurements were recorded as a number of pixels and converted to scientific units using the calibration information.

2.4 Sediment Profile and Plan View Image Analysis

At least four replicate SPI/PV samples were taken at each station (Appendix A). Each replicate camera position was recorded, time-stamped, and linked to the SPI/PV log by station number and replicate. At the time of sample acquisition, the time, station name and replicate were recorded in the field log (Appendix B). The three replicate images with the best quality (adequate prism penetration, no or minimal sampling artifacts) at each station were selected for analysis. At many stations, the high water column turbidity resulted in limited analysis of the PV imagery. However, by design, the SPI system captures clear imagery of the seafloor despite high-water column turbidity. Based on quality due to water column turbidity, PV imagery at 37 SPI/PV stations were unusable, resulting in indeterminate classifications for the majority of parameters during analysis.

SPI and PV images were analyzed using a set of standard computer-aided measurements to allow for comparisons among different areas of interest. Measured parameters for SPI and PV images were recorded in Microsoft Excel© spreadsheets. These data were subsequently checked by INSPIRE's senior scientists as an independent quality assurance/quality control review before final interpretation was performed. Spatial distributions of SPI and PV parameters were mapped using ESRI ArcGIS 10.7. Map backgrounds use a worldwide data layer called ESRI Oceans or ESRI Aerial Imagery (Esri, Garmin, GEBCO, NOAA NCEI, and other contributors) to provide geospatial context.

2.4.1 Sediment Profile Image Analysis Parameters

The parameters discussed below were assessed and/or measured and recorded for each replicate SPI selected for analysis (Appendix C). Notable, descriptive comments were also recorded. A depiction of standard variables derived from example SPI from soft bottom settings is provided in Figure 2-3.

2.4.1.1 Grain Size Major Mode

The sediment grain size major mode and range were determined via one of two ways: 1) visually estimated from the SPI by overlaying a grain size comparator utilizing Udden-Wentworth sediment standards that were at the same scale and photographed through the SPI optical system; or 2) representative sample of measurements of the diameter of individual grains (often possible for grain sizes larger than a phi of 3 to 2). Both approaches allow for grain sizes to be transformed into a sediment type for data presentation. With respect to the grain size comparator, this transformation was prepared by photographing a series of Udden-Wentworth size classes (equal to or less than coarse silt up to granule and larger sizes) with the SPI camera: silt/clay (>4 phi), very fine sand (4 to 3 phi), fine sand (3 to 2 phi), medium sand (2 to 1 phi), coarse sand (1 to 0 phi), very coarse sand (0 to -1 phi), and granule and larger (< 1 phi). The lower limit of optical resolution of the photographic system is about 62 microns, allowing recognition of grain sizes equal to, or greater than, coarse silt (>4 phi). The accuracy of this method has been documented by comparing SPI estimates with grain size statistics determined from laboratory sieve analyses (Marine Surveys 1984).

The determination of grain size major mode was also used to map near-surface stratigraphy such as sand-over-mud or mud-over-sand, where observed. When mapped on a local scale, this stratigraphy can provide information on relative transport magnitude and frequency.

2.4.1.2 Prism Penetration Depth

The SPI prism penetration depth was measured from the bottom of the image to the sediment–water interface. The area of the entire cross-sectional sedimentary portion of the image was digitized; the number of pixels within this area was divided by the calibrated linear width of the image to determine the mean penetration depth. Linear maximum and minimum depths of penetration were also measured. All three measurements (maximum, minimum, and mean penetration depths) were recorded in the data file.

When the stop collar settings and the number of weights used in the camera frame were held constant across stations, the depth to which the SPI prism penetrated the seafloor indicated the relative load-bearing capacity and shear strength of the sediment in the survey area. During this survey the stop collar settings were typically 14 inches, with the exception of seven stations (Stations 001, 002, 003, 004, 005, 006, 007, and 008), to prevent over penetration at these locations. Additionally, due to the variety of sediment types across the surveyed area, the number of weights varied between zero and five per side across the entire survey and were adaptively adjusted to ensure optimal penetration. The penetration depth can range from a minimum of 0 cm (no penetration) to a maximum of just over 20 cm (full penetration of very soft substrata). Comparative penetration values from sites of similar grain size indicate the relative water content of the sediment. Highly bioturbated sediments and rapidly accumulating sediments tend to have higher water content and greater prism penetration depths.

2.4.1.3 Small-Scale Surface Boundary Roughness

Surface boundary roughness was determined by measuring the vertical distance between the highest and lowest points of the sediment–water interface. The camera must be level to record accurate boundary roughness measurements. The surface boundary roughness (sediment surface relief) measured over the width of sediment profile images typically ranges from 0 to 4 cm and may be related to either physical structures (ripples) or biogenic features (burrow openings, fecal mounds, foraging depressions). Biogenic roughness typically changes seasonally and is related to the interaction of bottom turbulence and bioturbation. In sandy sediments, boundary roughness can be a measure of sand wave height. On silt/clay bottoms, boundary roughness values often reflect biogenic features such as fecal mounds or surface burrows. The size and scale of boundary roughness values can have dramatic effects on both sediment erodibility and localized oxygen penetration into subsurface sediments (Huettel et al. 1996).

2.4.1.4 Apparent Redox Potential Discontinuity Depth and Other Sediment Oxygen Indices

Oxic near-surface marine sediments typically have higher reflectance relative to underlying hypoxic or anoxic sediments. Surface sands washed free of mud also have higher optical

reflectance than underlying muddy sands. Oxidized surface sediments contain particles coated with ferric hydroxide (an olive or tan color when associated with particles) while reduced and muddy sediments below this oxygenated layer are darker, generally gray to black (Fenchel 1969; Lyle 1983; Sturdivant and Shimizu 2017). These differences in optical reflectance are visible in SPI. The boundary between colored ferric hydroxide surface sediments and underlying gray-to-black sediments is called the apparent redox potential discontinuity (aRPD) (Figure 2-3). The aRPD is described as “apparent” because of the potential discrepancy between where the sediment color shifts, and the complete depletion of dissolved oxygen concentration occurs due to the lag time between when the redox potential (Eh) reaches 0 millivolts (mV) and the precipitation of darker sulfidic sediments (Jorgensen and Fenchel 1974). However, the mean aRPD measured in SPI is a suitable proxy for the RPD with the depth of the actual Eh = 0 horizon generally either equal to or slightly shallower than the depth of the optical reflectance boundary (Rosenberg et al. 2001; Simone and Grant 2017). Factors that influence the depth of the aRPD include biological processes (e.g., respiration, bioturbation) and physical processes (e.g., advection, diffusion, local erosion). Scouring can wash away fines and shell or gravel deposits and can result in a very thin surface oxidized layer. During storm periods, erosion may completely remove any evidence of the aRPD (Fredette et al. 1988).

In sandy sediments that have very low sediment oxygen demand (SOD), the sediment may lack a visibly reduced layer even if an RPD is present. Because the determination of the aRPD requires discernment of an optical contrast between oxidized and reduced particles, it is difficult, if not impossible, to determine the depth of the aRPD in well-sorted sands of any size that have little to no silt or organic matter content. When using SPI technology on sand bottoms, estimates of the mean aRPD depths are often indeterminate with conventional white light photography. In these types of sediments, often aRPD depths are likely below the prism penetration depth, particularly in high energy areas where frequent seabed disturbance mixes and oxygenates the top several centimeters of sediment. The aRPD depth would be noted as greater than penetration if this is likely the case, as suggested by surface ripples and other replicate images with slightly deeper prism penetration depths reveal a deep aRPD depth with dark sediments visible near the bottom of the visible sediment column.

Images in which dark gray or black reduced sediments were in contact with the water column across the entire length of the sediment–water interface were recorded as having low dissolved oxygen condition. If organic loading is extremely high, porewater sulfate is depleted and methanogenesis occurs. The process of methanogenesis is indicated by the appearance of methane bubbles in the sediment column. These gas-filled voids are readily discernable in SPI images because of their irregular, generally circular aspect and glassy texture (due to the reflection of the strobe off the gas bubble). The presence of subsurface methane bubbles was noted. The presence of sulfur-oxidizing bacterial colonies indicates hypoxic dissolved oxygen concentrations in the water column at the benthic boundary-layer (Rosenberg and Diaz 1993; Sturdivant et al. 2012). The presence and extent (e.g., threads, trace, patches, mat) of *Beggiatoa* or *Beggiatoa*-like colonies were noted.

2.4.2 Plan View Image Analysis Parameters

PV images record conditions at the seafloor surface in a downward-looking orientation. They provide a larger field-of-view than SPI along with valuable information about the seascape ecology and sediment topography in the area where the pinpoint “optical core” of the sediment profile was taken (Figure 2-4). The federal Coastal and Marine Ecological Classification Standard (CMECS; FGDC 2012) was used to classify dominant biotic categories and classify surficial sediments and associated fauna as recommended in BOEM guidelines (BOEM 2019, 2020). CMECS is a useful standardized classification system to characterize environments and facilitates comparisons across studies (FGDC 2012). The parameters discussed below were assessed and/or measured and recorded for each replicate PV image selected for analysis (Appendix D).

2.4.2.1 Field of View

The field of view area was measured using the scale information provided by the underwater lasers (i.e., the measurement between two laser points with a known distance). Scaling allows accurate measurements of sediment grain sizes, density counts of attached epifaunal colonies, sediment burrow openings, and/or larger macrofauna or fish. The laser points may not be visible in images with high turbidity.

2.4.2.2 Bedforms

Seafloor bedforms are indicative of seafloor hydrodynamics and are physical features visible on the surface of the seafloor. These features can give an indication of the physical energy of the system (ripples) or of biotic activity (feeding pits). Sediment bedforms such as sand waves, sand bars, and ripples develop as a response of the seafloor to hydrodynamic conditions. For example, short-wavelength sediment ripples indicate mobile sands and active bedload transport. In contrast, soft silt/clay sediments often lack surficial bedforms and indicate quiescent depositional environments. The view of the seafloor provided in the PV images was <1 m^2, the scope of this view limits the ability to distinguish bedforms that exist over larger scales (e.g., sand waves or dunes). Bedforms, where present, were noted for each replicate PV image.

2.4.2.3 CMECS Biotic Subclass

The Biotic Component of CMECS is a classification of the living organisms of the seabed and water column together with their physical associations at a variety of spatial scales. The Biotic Component is organized into a branched hierarchy of five nested levels: Biotic Setting, Biotic Class, Biotic Subclass, Biotic Group, and Biotic Community. Biotic Component classifications are defined by the dominance of life forms, taxa, or other classifiers in the observation. In the case of PV images, dominance is assigned to the taxa with the greatest percent cover in the observational footprint (FGDC 2012).

The Biotic Subclass is a key CMECS classifier that presents valuable information about the surveyed area in terms of physical habitat and the potential presence of sensitive taxa;

therefore, it was identified as a parameter for PV image analysis. Biotic Subclasses describe dominant biota at a coarse level. The Biotic Component Setting most applicable to all data reported here is the Benthic/Attached Biota. Within the Benthic/Attached Biota setting, there are eight Biotic Classes, of which the Faunal Bed Class and Reef Biota Class are most relevant to the EW 1 export cable. Four Biotic Subclasses fall under the Faunal Bed hierarchy: Attached Fauna, Soft Sediment Fauna, Worm Reef Biota, and Inferred Fauna. Inferred Fauna (e.g., tracks and trails, egg masses) are often present, but in this study, were primarily used to inform or confirm the selection of either the Attached or Soft Sediment Fauna subclass. The Reef Biota Class is applicable for nearshore areas that include molluscs. Although the Biotic Subclass is not directly based on sediment grain size distributions, it reflects them at the scale of relevance to the dominant fauna present, thus serving as an integrator of physical and biological characteristics of the seafloor. CMECS expressly states that "substrate type is such a defining aspect of the Faunal Bed class that CMECS Faunal Bed subclasses are assigned as physical-biological associations involving both biota and substrate (FGDC 2012)." CMECS classifications are capitalized in this report.

PV images were assigned one of the following Biotic Subclasses (definitions from FGDC 2012):

- Attached Fauna – "Areas characterized by rock substrates, gravel substrates, other hard substrates, or mixed substrates that are dominated by fauna which maintain contact with the substrate surface, including firmly attached, crawling, resting, interstitial, or clinging fauna. Fauna may be found on, between, or under rocks or other hard substrates or substrate mixes. These fauna use pedal discs, cement, byssal threads, feet, claws, appendages, spines, suction, negative density, or other means to stay in contact with the (generally) hard substrate, and may or may not be capable of slow movement over the substrate. Many attached fauna are suspension feeders and feed from the water column. Other attached fauna are benthic feeders, including herbivores, predators, detritivores, and omnivores."
- Soft Sediment Fauna – "Areas that are characterized by fine unconsolidated substrates (sand, mud) and that are dominated in percent cover or in estimated biomass by infauna, sessile epifauna, mobile epifauna, mobile fauna that create semi-permanent burrows as homes, or by structures or evidence associated with these fauna (e.g., tilefish burrows, lobster burrows). These animals may tunnel freely within the sediment or embed themselves wholly or partially in the sediment. In many cases, they will regularly leave their burrows, and may move rapidly or swim actively after doing so, but any animal that creates a semi-permanent home in the sediment can be classified as Soft Sediment Fauna. These animals may also move slowly over the sediment surface but are not capable of moving outside of the boundaries of the classification unit within one day. Most of these fauna possess specialized organs for burrowing, digging, embedding, tube-building, anchoring, or locomotory activities in soft substrates."

- Inferred Fauna – “Areas dominated by evidence (real or inferred) of faunal activity, but where the fauna themselves are not currently present or evident, given the sampling methodology.”
- Mollusk Reef Biota – “Areas dominated by consolidated aggregations of living and dead mollusks, usually bivalves (e.g., oysters or mussels or giant clams) or gastropods (e.g., vermetids) attached to their conspecifics and sufficiently abundant to create substrate.”
- IND – an indeterminate Biotic Subclass

Habitats characterized by a moderate to dense cover of Attached Fauna are also referred to in some documents as “live bottom.” Depending on their specific characteristics, these hard bottom habitats may be considered potentially valuable and/or sensitive resources for regionally important taxa. Attached Fauna may also be found with patchy and discrete cover within the PV images, such as encrusting fauna on large shell fragments. Typically, this type of habitat is not considered “live bottom” and would not be evaluated as a sensitive resource. Additionally, cobbles and boulders can provide habitat for a diverse range of taxa and serve as valuable habitat for corals and as a place for squid to lay their eggs.

2.4.3 Parameters Obtained Using Both SPI and PV Imagery

The parameters discussed below were assessed and/or measured and recorded for each replicate SPI and PV pair selected for analysis (Appendices C and D).

2.4.3.1 CMECS Substrate Group and Subgroup

Substrate[1] is defined in CMECS as the non-living materials that form an aquatic bottom or seafloor or that provide a surface (e.g., floating objects, buoys) for growth by attached biota. Substrate may be composed of any substance, natural or manmade. Describing the composition of the substrate is a fundamental part of any ecological classification scheme. Substrate provides context and setting for many aquatic processes, and it provides living space for benthic and attached biota. The Substrate Component is a characterization of the composition and particle size of the surface layers of the substrate; this component is designed to be compatible with a range of sampling tools (FGDC 2012).

Detailed definitions of all possible substrate classifications can be found in the CMECS document (FGDC 2012); only the substrate classifications observed in this survey are defined and presented here (Table 2-1). Shell Substrate classifications retained in the NOAA Habitat modifications (NOAA Fisheries 2021) are also applied in the scheme (Table 2-1); however, they are shifted from the Class/Subclass level to Group/Subgroup for the purposes of continuity between classifications. Where gravels were present, the sizes of the smallest and largest

[1] CMECS uses the term ‘substrate’ for both a geological substratum (a layer of sediment or rock) and for biological or anthropogenic substrates (solid surfaces on which plants or animals grow). For CMECS descriptions we adopt this convention, but for SPI descriptions of sediments we use the geological term, i.e., substratum.

gravels visible (minimum and maximum) were measured to inform characterization of the seafloor. For these measurements, the gravel diameter in millimeters (mm) was calculated and translated to a gravel type according to the Wentworth scale (Wentworth 1922).

Because the PV imagery does not allow for reliable determination of median size of sand, a modification for the Group was used: “Sand or finer”. Where the Group was Sand or finer, the grain size major mode of surficial sediments obtained from SPI (see Section 2.4.1.1 above for grain size classification descriptions) was used to classify to the Subgroup level. The grain size major mode documents the grain size that comprises the majority of the visible sediment column and, therefore, grain size major mode ranging from very fine sand to very coarse sand represent greater than a 1:1 mix of sand:mud (Figure 2-6).

High turbidity in the water column at many of the stations limited the observations that could be documented from the PV imagery alone. However, by design, the SPI system captures clear imagery of the seafloor despite high water column turbidity. In these cases, the SPI images were critical in determining CMECS Substrate Subgroup, which relied on surficial sediment type (grain size major mode) descriptions derived from SPI when PV imagery was too turbid to make observations. For example, in these cases if the SPI indicated little to no gravel, the Group was assumed to be Sand or finer and the Subgroup was classified using the surficial sediment grain size major mode obtained from the SPI imagery.

Table 2-1. CMECS Substrate Classifications with NOAA Fisheries and SPI/PV Modifications Documented within this Study

CMECS Substrate Group	CMECS Substrate Subgroup	Description
Gravel Mixes		Geologic substrate surface layer contains 30% to <80% gravel.
	Sandy Gravel	Geologic substrate is 30% to <80% gravel, with sand composing >90% of the remaining sand-mud mix.
Gravelly		Geologic substrate surface layer is 5% to <30% gravel.
	Gravelly Sand	Geologic substrate is 5% to <30% gravel, and the remaining sand-mud mix is >90% sand.
Sand or finer		Geologic substrate is <5% gravel, and the remaining sand-mud mix is >50% sand; this category includes the CMECS Group of Slightly Gravelly per NOAA Habitat modifications.
	Very Coarse Sand	Grain size major mode is 0 to -1 phi, or 1 to <2 mm.
	Coarse Sand	Grain size major mode is 1 to 0 phi, or 0.5 to <1 mm.
	Medium Sand	Grain size major mode is 2 to 1 phi, or 0.25 to <0.5 mm.
	Fine Sand	Grain size major mode is 3 to 2 phi, or 0.125 to <0.25 mm.
	Very Fine Sand	Grain size major mode is 4 to 3 phi, or 0.0625 to <0.125 mm.
	Silt/Clay	Grain size major mode is >4 phi, or <0.0625 mm.
Shell Substrate		Substrates where percent cover of Biogenic Substrate (i.e., shell) exceeds percent cover of Geologic Substrate (i.e., shell cover is greater than 50% of the substrate).
	Mussel Reef Substrate	Shell Reef that is primarily composed of self-adhered or conglomerated mussel shells.

CMECS Substrate Group	CMECS Substrate Subgroup	Description
	Shell Hash	Surface substrate layers are dominated by loose shell (any combination of clam, *Crepidula*, mussel, and/or oysters) accumulations with a median particle size of 2 mm to <64 mm (size of granules and pebbles).

2.4.3.2 Infaunal Successional Stage

The classification of infaunal successional stages is readily accomplished with SPI/PV technology. Infaunal successional stage is a measure of the biological community inhabiting the seafloor. Organism–sediment interactions in fine-grained sediments follow a predictable sequence of development after a major disturbance (e.g., dredged material disposal) (Pearson and Rosenberg 1978; Rhoads and Germano 1982; Rhoads and Boyer 1982). This continuum is divided subjectively into four stages: Stage 0, indicative of a sediment column that is largely devoid of macrofauna, occurs immediately following a physical disturbance or in close proximity to an organic enrichment source; Stage 1 is the initial recolonizing of tiny, densely populated polychaete assemblages; Stage 2 is the start of the transition to head-down deposit feeders; and Stage 3 is the mature, equilibrium community of deep-dwelling, head-down deposit feeders (Figure 2-5).

Various combinations of these basic successional stages are possible. For example, secondary succession can occur (Horn 1974) in response to additional labile carbon input to surface sediments, with surface-dwelling Stage 1 or 2 organisms coexisting at the same time and place with Stage 3, resulting in the assignment of a “Stage 1 on 3” or “Stage 2 on 3” designation. If both Stage 1 and Stage 2 organisms exist in an image with Stage 3 fauna, the Stage 1 on 3 designation is used because it is more important to denote the presence of recruiting organisms than intermediate Stage 2 fauna. In addition, intermediate stages (1->2 and 2->3) exist when limited evidence of a more advanced stage is documented alongside an earlier stage. For example, a Stage 2->3 designation might be assigned to an image where Stage 2 tubes have been documented overlaying a very deep aRPD, which suggests that deep-dwelling, head-down deposit feeders are likely to exist in that area and were not captured in that particular SPI replicate.

While the successional dynamics of invertebrate communities in fine-grained sediments have been well documented, the successional dynamics of invertebrate communities in sand and coarser sediments are not well known. Consequently, the insights gained from SPI/PV technology regarding biological community structure and dynamics in sandy and coarse-grained bottoms are limited. Successional stage was assigned by assessing the types of infauna and related structures and indicated activities (e.g., feeding voids) apparent in both the SPI and PV images. Successional stage is a CMECS modifier, adding detail and supplementing CMECS classifications.

2.4.3.3 Fauna and Flora Presence

Where visible in the SPI and/or PV images, flora and fauna were identified to the lowest possible taxonomic grouping. The inferred presence of fauna was identified through observations of burrows, tubes, tracks, foraging pits, and fecal casts. The presence of surficial tubes and deep voids were also noted. Recorded fauna were grouped into several categories: fish, soft sediment infauna, sessile epifauna, mobile epifauna, sensitive taxa, species of concern taxa, and non-native taxa. Epifauna taxa is a CMECS modifier (Associated Taxa), adding detail to the CMECS classifications. Where attached flora and fauna were present in PV images, the percent coverage of the image was estimated using the CMECS Percent Cover Modifier (FGDC 2012).

2.4.3.4 Sensitive Taxa and Species of Concern

The image resolution of the SPI/PV survey allows for the identification of sensitive taxa. Sensitive seafloor habitats include corals, submerged aquatic vegetation (SAV) beds, and valuable cobble and boulder habitat (BOEM 2019). Cobble and boulder habitat can serve as structure for hard and soft corals, nursery ground for juvenile lobster, and as preferable benthic habitat for squid to deposit their eggs. Taxa considered sensitive for this region include corals, seagrass beds, squid eggs, and American lobster. In the EW 1 export cable route area, species of ecological concern and/or concern regarding possible habitat disturbance from offshore wind construction and operation activities include black sea bass, Atlantic surfclam, sea scallop, and ocean quahog (Guida et al. 2017). Presence/absence of each sensitive taxa or species of concern was noted for each replicate SPI and PV image.

2.4.3.5 Non-Native Taxa

The introduction of non-native species to the water column and benthic habitat is an important concern related to offshore development. The introduction of new structures, such as concrete mattresses, to the seafloor during construction may also lead to the introduction of non-native species. The SPI/PV survey collected baseline presence/absence data for marine non-native species within the surveyed area. A list of potential non-native species was derived from a combination of relevant resources including the Northeastern Aquatic Nuisance Species Panel (https://www.northeastans.org/) and the National Exotic Marine and Estuarine Species Information System database (NEMESIS) curated by the Smithsonian Environmental Research Center.

2.5 Sediment Grab Sampling

Sediment grab samples were collected using a Ted Young Modified Van Veen grab sampler. When the sampler landed on the seafloor, an additional 0.5 to 1 m of cable was laid out to allow the grab sampler to close. The navigator recorded the position (electronically; Appendix A) and the grab was returned to the surface. Once onboard, field scientists examined the surface of the grab for acceptability, which included the following: the sampler was not over-filled, overlying water was present and not excessively turbid, and the penetration depth was ~7 cm. Additional

information was recorded on the sediment sample log form for each station, including time of collection, number of grab attempts, general visual description of the sediment, penetration depth, and any odor (Appendix E).

2.5.1 Grain Size Sample Collection

Once the sediment grab sampler was recovered on the vessel deck and deemed acceptable, a subsample was collected for grain size analysis. The subsample was obtained from the grab sampler using a cut-off syringe ensuring approximately 5 to 10 cm of the surface sediment was collected. The grain size sample was placed into a pre-labeled sample bag and stored in a cooler at ambient temperature in a shaded area. Grain size analysis was conducted by Alpha Analytical (with hydrometer ASTM D 422) using standard laboratory protocols. All sediment grain size results are provided in Appendix F.

2.5.2 Sediment Chemistry Sample Collection

Sediment sampling for chemistry analyses followed the guidelines provided in NYSDEC's Technical and Operational Guidance Series (TOGS) 5.1.9 (NYSDEC 2004). Additional details of the analytical and quality control methods are provided in the *Empire Wind 1 Benthic Sampling Plan New York State Waters* (INSPIRE 2023). Quality control (QC) samples associated with the sediment sample collection will include field duplicates, equipment blanks and matrix spike/matrix spike duplicates (MS/MSDs). The top 2 centimeters (cm) of the sediment samples were collected from the acceptable sediment grab sample surface using a cut-off syringe corer marked to delineate a 2-cm depth. Several subsample cores were collected and homogenized from the grab sampler to ensure sufficient sediment volume for the chemical analyses.

Sediment chemistry samples were analyzed for copper (Cu) (EPA Method 6020B), lead (Pb) (EPA Method 6020B), cadmium (Cd) (EPA Method 6020B), arsenic (As) (EPA Method 6020B), mercury (Hg) (EPA Method 7471), total polychlorinated biphenyls (PCBs) (EPA Method 8082), total polyaromatic hydrocarbon (PAHs) (EPA Method 8270), and the sum of DDT, DDE, and DDD. Chemistry analysis was conducted by Alpha Analytical using standard laboratory protocols. All sediment chemistry results are provided in Appendix F.

Total PAHs was calculated as the sum of the 18 PAHs compounds analyzed (naphthalene, 2-methylnaphthalene, 2-chloronaphthalene, acenaphthylene, acenaphthene, fluorene, anthracene, phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene). Total PCBs was estimated as the sum of the nine Aroclor compounds (Aroclor 1016, Aroclor 1221, Aroclor 1232, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260, Aroclor 1262, and Aroclor 1268). Total DDx was calculated as the sum of 2,4'-DDD, 2,4'-DDE, 2,4'DDT, 4,4'-DDD, 4,4'-DDE, and 4,4'DDT. Total chlordane was estimated as the sum of alpha-chlordane, gamma-chlordane, oxychlordane, and chlordane (not otherwise specified). Non-detected compounds were included in the summation using ½ the method detection limit (MDL).

The range of threshold levels for Class B sediments provided by NYSDEC's TOGS 5.1.9 (NYSDEC 2004) were included on the summary tables and plots to provide context for the sediment sample results. These threshold values are based on known and presumed impacts on aquatic organisms or the ecosystem and are typically used as benchmarks to inform management decisions and develop management plans for dredged material disposal (NY TOGS).

2.5.3 Benthic Community Analysis Sample Collection

Following the grain size and chemistry subsample collection, the remaining sediment sample was transferred to a collection bucket and the grab sampler was carefully rinsed to deposit any remaining sediment and organisms into the bucket. The contents of the bucket were sieved gently through a 0.5-mm mesh sieve using filtered seawater. The sieve contents were gently rinsed into an appropriately sized, screw-top sample container (typically 500 to 1,000 milliliters [mL]). The jar was then filled with a solution of filtered seawater and 10% buffered formalin (4% formaldehyde). The container was shaken gently to mix preservative and buffer thoroughly within the sample material. Upon return from the field, the preserved benthic infauna samples were shipped to Barry Vittor and Associates (Mobile, AL) for analysis. Individual organisms were hand-picked and identified to the lowest practical identification level (LPIL). The BCA data were not available at the time of writing and will be presented in an addendum to this report.

2.6 Water Column and Sediment Quality Measurements

Water column profiles of depth, conductivity (salinity), and temperature were collected at all the SPI/PV stations located along the EW 1 export cable route. These data were collected using an instrument equipped with conductivity (salinity), temperature, and depth sensors (a CTD). The CTD recorded continuous measurements throughout the water column from near-surface to the near bottom. The data are presented as vertical (depth) profiles. A single CTD cast was conducted at each of the SPI/PV stations within New York state waters (Figure 2-1; Appendix A). Results of the CTD profiles are provided in Appendix G.

In-situ water temperature, conductivity, and depth measurements were collected throughout the water column using a Sontek CastAway CTD water quality profiler. Once the vessel was on station, the probe was placed below the water surface until measurements stabilized and was then lowered through the water column at a rate of approximately one meter per second to obtain water quality measurements from within 1 m of the water surface to approximately 1 m above the seafloor. The CastAway has a real-time data display screen, an internal GPS sensor, and automated wireless data transfer. The CastAway has a salinity accuracy of 0.1 Practical Salinity Unit (PSU), temperature accuracy of 0.05° Celsius, contains an integrated GPS receiver, and has wireless data transfer capabilities via Bluetooth. The system has a 5 Hertz (Hz) sampling rate. Plots of conductivity, temperature, salinity, and sound speed versus depth can be viewed immediately on the CastAway's integrated color LCD screen in the field. Raw data were downloaded via Bluetooth to a Windows computer for detailed analysis and export. Raw data files were sorted, reviewed for quality assurance, and then plotted using R Statistical

Software (R Core Team 2022). The water quality profiles included only data collected during the downcast of the instrument, from the surface to bottom.

Additionally, the temperature of the surficial sediments was measured at each SPI/PV station using a small temperature logger (STAR ODDI, DST milli-TD), which was fastened to the weight at the end of the CastAway-CTD. Data collected from each deployment were downloaded and stored on a field laptop as well as on an external hard drive upon retrieval.

2.7 Data Quality Assurance and Quality Control

Quality assurance and quality control (QA/QC) measures were taken to ensure reproducible and scientifically defensible data were generated that are sufficient in accuracy, precision, completeness, and representativeness. Measures were taken during field data collection for data quality assurance and control in alignment with INSPIRE's standard operating procedure for SPI/PV sample collection (INSPIRE 2019b) and sediment grab sample collection (INSPIRE 2019c). Sediment sampling followed the guidelines provided in the NYSDEC TOGS 5.1.9 (NYSDEC 2004).

Proper and comprehensive sample documentation from field records to custody forms to analytical laboratory notes and reports ensured samples are traceable and the results are legally defensible. A complete field record of all sampling procedures was maintained including station locations, sample handling, preservation, and storage procedures. QC samples associated with the sediment sample collection included field duplicates, equipment blanks and MS/MSDs at frequencies outlined in the *Empire Wind 1 Benthic Sampling Plan New York State Waters* (INSPIRE 2023) and in alignment with the guidelines provided in the NYSDEC TOGS 5.1.9 (NYSDEC 2004).

Imaging, sediment grab, and CTD systems were all tested prior to and during survey activities to ensure calibration and operation. Full backup systems (including tools, parts, and electronics) were carried in the field. All data collected were time-stamped both digitally and in hand-written logs to ensure proper identification and synchronization with navigational data. During image analysis, all parameter results were thoroughly checked by senior scientists to ensure quality and accuracy.

3.0 RESULTS

INSPIRE completed this benthic survey along the NY state waters portion of the EW 1 planned export cable route from 30 August to 1 September 2023 onboard the R/V *Atlantic Surveyor.* Sampling included the collection of a total of 91 SPI/PV stations, 46 sediment grab stations for grain size analysis and BCA, and 39 sediment grab stations for chemistry analyses. Water column profiles of temperature and salinity as well as surficial sediment temperature readings were collected at all 91 SPI/PV stations.

The results discussed below are grouped by general area along the cable route as illustrated in Figure 3-1 and a summary of the station counts in each area is summarized in Table 3-1. These broad geographic areas included the northern-most portion of the planned export cable located along the Bay Ridge Channel, the portion extending through the Verrazano Narrows, within Gravesend Bay, west and southwest of Coney Island into the Lower Bay, and the Offshore stations along the Ambrose Channel extending to the NY state waters boundary.

3.1 Sediment Profile and Plan View Results

A total of 91 SPI/PV stations were sampled along the NY state waters portion of the EW 1 export cable route. SPI/PV station coordinates, sampling date and time, and field comments are provided in Appendix A. Complete datasets of all parameters measured from each analyzed SPI and PV image are presented in Appendices C and D, respectively. A summary of a selection of physical and biological results from the SPI/PV image analysis are presented in Tables 3-2 and 3-3, respectively.

3.1.1 Physical Characteristics

Physical characteristics of the surface sediments were described using a combination of CMECS Substrate Group, CMECS Substrate Subgroup, and sediment type classifications (Table 3-2; Figures 3-2, 3-3, and 3-4). In general, the sediments in the northernmost portion of the planned export cable, including the stations along the Bay Ridge Channel as well as in Gravesend Bay were composed of soft silt/clay or very fine sand (Table 3-2; Figure 3-2A and B). The stations to the west and southwest of Coney Island, including some of the Lower Bay stations, were characterized by a surficial shell layer composed of aged-shells derived from blue mussels, eastern oyster, clams, and *Crepidula* (Figure 3-2C). The region along the Ambrose Channel to Offshore out to the NY state waters boundary, inclusive of some of the Lower Bay stations as well, was generally sandy (Figure 3-2D).

The majority of stations along the planned EW 1 export cable route were classified as either CMECS Substrate Group Shell Substrate or Sand or finer; the two exceptions were Station 016 that was described as Gravelly and Station 024 that was classified as Gravel Mixes (Table 3-2; Figure 3-3). CMECS Substrate Subgroup provided more detail on the specific types of substrates observed and the spatial variation along the EW 1 cable route (Figure 3-4). At stations where Sand or finer was noted as CMECS Substrate Group, or where CMECS Substrate Group was indeterminate using PV imagery due to high turbidity, the sediment type (grain size major mode) observed in SPI was used to resolve the CMECS Substrate Subgroup classification. CMECS Substrate Subgroup was typically either Silt/Clay or Very Fine Sand at the Bay Ridge Channel stations (Table 3-2; Figure 3-4). Through the Verrazano Narrows, sediments were spatially variable including Very Fine Sand, Fine Sand, Coarse Sand, Shell Hash, Sandy Gravel, and Silt/Clay (Table 3-2; Figure 3-4). The stations within Gravesend Bay were typically classified with the CMECS Substrate Subgroup Very Fine Sand, with Shell Hash occurring in the southern portion of Gravesend Bay area (Table 3-2; Figure 3-4). Shell Hash was the CMECS Substrate Subgroup used to describe the surficial sediments observed within

the Lower Bay (south of Gravesend Bay and to the west and southwest of Coney Island); typically, present overlying fine sediment (Figure 3C). Near the Ambrose Channel (Lower Bay) and out to the Offshore stations near the NY state waters boundary, surficial sediments were generally characterized as Fine Sand, Medium Sand, or Coarse Sand, with spatial delineations and transitions between these grain sizes often following the bathymetric contours (Figure 3-4).

Mean prism penetration depth generally corresponded with the substrate descriptions (e.g., CMECS Substrate Subgroup), with deeper prism penetration at stations characterized by finer substrates (Silt/Clay, Very Fine Sand) in comparison to the coarser substrates (e.g., Shell Hash, Medium Sand, and Coarse Sand), which had shallower prism penetration (Figures 3-4 and 3-5). Mean station prism penetration ranged from a minimum of 2.3 cm at Station 065, located in the Lower Bay, to a maximum of 19.3 cm at Station 009, which was located along the Bay Ridge Channel (Appendix C). The deepest prism penetration depths (>15.0 cm) occurred in the northernmost stations along the Bay Ridge Channel (group average of 16.3 cm) and within Gravesend Bay (station group average of 14.1 cm) (Table 3-2; Figure 3-5). Prism penetration depths were generally between 6.1 and 10.0 cm within the Verrazano Narrows and the stations in the Lower Bay, with station group averages of 7.8 and 8.0 cm, respectively (Table 3-2; Figure 3-5). Prism penetration depths were typically less than 6.0 cm at the Offshore stations closest to the NY waters state boundary, with a station group average of 5.6 cm (Table 3-2; Figure 3-5).

Mean station small-scale boundary roughness along the planned EW 1 cable route ranged from 0.4 to 2.5 cm across the surveyed area (Table 3-2; Appendix C). Overall, there was little variation in boundary roughness measurements across the surveyed area, with group station averages ranging from 1.0 cm for the Bay Ridge Channel stations to 1.6 cm at the Offshore stations (Table 3-2). In general, small-scale boundary roughness at the Offshore stations near the NY state waters boundary corresponded with small bedforms on the sediment surface (sand ripples) often visible in PV imagery, suggesting physical hydrodynamics are important in sediment dynamics in this area (Table 3-2; Figure 3-6A Appendix D). The number of stations with small sand ripples noted in the PV imagery increased with distance along the planned export cable route (Table 3-2; Figure 3-7). Boundary roughness was moderate at stations with biogenic substrate (shell layers on the surface), including the stations west of Coney Island and into the Lower Bay region of the surveyed area (Figures 3-6B). In general, the soft sediments observed at the stations along the Bay Ridge Channel were characterized by low boundary roughness derived by small-scale biological processes at the sediment–water interface (e.g., tubes, fecal pellets, small burrows), with little to no indication of physical dynamics contributing to the boundary roughness at these stations (Figures 3-7C).

3.1.2 Biological Characteristics

Several CMECS Biotic Subclasses were observed along the planned EW 1 cable route including Attached Fauna, Inferred Fauna, Soft Sediment Fauna, and Mollusk Reef Biota (Figure 3-8; Table 3-3). CMECS Biotic Subclass designation relied on PV imagery; many of the stations, particularly the stations in the northern portion of the surveyed area, were

indeterminate for this parameter due to elevated turbidity during image collection. Mollusk Reef Biota were documented at several stations within the Lower Bay and Offshore regions (Stations 053, 071, 072, and 079), all of which had patchy distributions of blue mussel (*Mytilis edulis)* on the sediment surface (Figures 3-8 and 3-9A; Appendix D). Soft Sediment Fauna were observed at the majority of stations along the EW 1 cable route and typically were present in the form of infaunal tubes (e.g., *Diopatra*) and trails/tracks on the sediment surface (Figures 3-8 and 3-9B; Appendix D). Attached Fauna were only documented at the stations that were characterized by high coverage of shell material on the sediment surface, which primarily occurred in the southern portion of Gravesend Bay and the southern portion of the Lower Bay (Figures 3-4, 3-8, and 3-9C). Sessile and mobile epifauna taxa were noted in both SPI and PV imagery, including crustaceans (spider crab, hermit crab, cancer crab), echinoderms (sea urchins, sea stars), molluscs (snails, blue mussels, *Crepidula*), anemones, and encrusting bryozoa/hydroids (Table 3-3; Figure 3-9C; Appendices C and D). However, the percent cover of attached fauna was typically described as Trace (<1%) or Sparse (1 to <30%) (Appendix D). No sensitive taxa, species of concern (as designated by Guida et al. 2017), or non-native taxa were noted in any of the replicate SPI or PV images along the EW 1 cable route (Table 3-3).

Station mean aRPD depths ranged from 0.8 at Station 013 (Bay Ridge Channel) to 5.2 cm at Station 026 (Verrazano Narrows), with generally shallower aRPD depths measured at stations within the northern portion of the planned export cable route (Figures 3-10 and 3-11; Appendix C). When grouped by area the aRPD depth means were generally similar across areas (Table 3-3). Shallower aRPD depths indicate limited oxygen penetration into the sediment column as a result of high benthic respiration rates and typically indicate lower overall benthic health. Deeper aRPD depths typically result from lower sediment oxygen demand due to lower organic matter input to the sediments and/or elevated hydrodynamics (currents, tidal forces) leading to less organic matter inventory in the sediment column. At the stations in the Lower Bay, measurements of aRPD depths were either indeterminate (where a surficial layer of shell material was observed) or intermediate to deep (stations in the central portion of the Lower Bay). Most of the stations Offshore out to the NY state waters boundary had indeterminate aRPD depths (Figures 3-10 and 3-11D). This was largely due to the low organic content in the sediments, as inferred by the optical reflectance of the sediment column. Generally, sandy and porous sediments have low organic content which results in low SOD and benthic respiration rates. This was in contrast to the stations in the northern portion of the EW 1 cable route, particularly within Gravesend Bay and along the Bay Ridge Channel, where aRPD depths were distinguishable within the SPI, and generally measured between 0.5 and 3.0 cm (Figures 3-10 and 3-11). At seven stations, mainly located within Gravesend Bay and near the landfall (Bay Ridge Channel stations), methane bubbles were observed in the sediment columns (Figures 3-12 and 3-13). The presence of methane indicates elevated benthic respiration rates and low oxygen levels in the sediments resulting from high organic matter inventory and a shift in anaerobic metabolism to methanogenesis.

Benthic communities along the EW 1 planned export cable route were most frequently characterized as intermediate to advanced successional stages, including Stage 1->2, Stage 2,

and Stage 3, with generally more advanced communities documented in the northern portion of the surveyed area (Figure 3-14). At the nearshore stations near the Bay Ridge Channel and within Gravesend Bay, despite evidence of high benthic respiration rates and low oxygen in the sediments, the benthic communities were generally characterized as being in an advanced state of succession with indications of Stage 3 infauna (e.g., deep burrowing polychaetes, deep feeding voids) (Figures 3-14, 3-15C and 3-15D). Stage 2 and Stage 1->2 were documented in the area of the Verrazano Narrows. Stations along the Ambrose Channel in the Lower Bay were typically documented as Stage 1->2 successional stage (Figures 3-14 and 3-15A). At the Offshore stations closer to the NY state waters boundary, successional stage was typically noted as indeterminate, largely due to limited observations of infauna or infaunal features (voids) in these sandy environments that have generally limited food availability and frequent natural physical disturbances (Figure 3-14).

3.2 Sediment Grab Sample Grain Size Results

Mean grain size results for the 46 stations sampled are summarized by geographic area in Table 3-4 and presented in Figure 3-16. Triplicate samples were collected and analyzed for grain size at each station. Field duplicates were collected at Stations 009, 013, 027, 049, 061, and 081 (Appendix F). A total of 145 sediment samples were analyzed for grain size distributions; the complete dataset is provided in Appendix F. In general, there was very low within-station variability when comparing the grain size distributions across the replicate samples (Appendix F).

Grain size distributions varied across the surveyed area with clear spatial patterns apparent in the proportions of gravels, sands, and fines. In the defined Offshore area, the stations closest to the NY state waters boundary (Stations 081 through 091) were composed mainly of fine sand with minor contributions of total fines, very fine sand, and medium sand (Figure 3-16). Moving north, Stations 073 through 079 had relatively higher contributions of coarse sand and medium sand with modest proportions of very coarse sand (Figure 3-16). The stations to the east and southeast of Coney Island (Stations 039 through 047), spanning the Lower Bay and Gravesend Bay areas, had generally higher proportions of gravels and a wide range of sand fractions (Figure 3-16). The percent total fines were relatively higher at most of the Gravesend Bay stations (Stations 029 through 037; Figure 3-16). The stations through the Verrazano Narrows were characterized by higher proportions of sands and less fines compared with Gravesend Bay and the stations along the Bay Ridge Channel (Figure 3-16). Percent total fines increased moving north of the Verrazano Narrows Bridge through the Verrazano Narrows from Station 021 to Station 002 in the Bay Ridge Channel (Figure 3-16).

3.3 Sediment Grab Sample Chemistry Results

Sediment chemistry results for the 39 stations sampled are presented in Figures 3-17 and 3-18 and summarized in Tables 3-5 and 3-6, which provide average concentrations across stations as grouped by the defined geographic areas. Field duplicates were collected at four stations (Stations 100, 103, 110, and 116), in addition to an extra sample collected for Matrix Spike at

two stations (Station 037 and 115) (Appendix F). A total of 43 sediment samples were analyzed for sediment chemistry.

The range of threshold levels for Class B sediments provided by NYSDEC's TOGS 5.1.9 (NYSDEC 2004) was included on the summary tables and plots to provide context for the sediment sample results. These threshold values are based on known and presumed impacts on aquatic organisms or the ecosystem and are typically used as benchmarks to inform management decisions and develop management plans for dredged material disposal (NY TOGS).

3.3.1 Organic Compounds

A summary of total chlordane, total DDx, total PCBs, and total PAHs, are provided by defined surveyed area in Table 3-5 and Figure 3-17. A complete set of results for all chemical compounds analyzed are provided in Appendix F.

Levels of total chlordane were generally lower at the Lower Bay stations relative to the Bay Ridge Channel stations, with intermediate values reported at the stations within Verrazano Narrows and Gravesend Bay (Figure 3-17). Total chlordane ranged from a group average of 0.01 mg/kg across the Lower Bay stations to 0.04 mg/kg across the Bay Ridge Channel stations (Table 3-5). All samples were above the lower threshold for Class B sediments (>0.003 mg/kg) and most were below the upper threshold (<0.036 mg/kg). Several samples located in the Bay Ridge Channel group exceeded the total chlordane upper threshold (>0.036 mg/kg), including the three stations nearest to shore within the Bay Ridge Channel group (Stations 002, 116, and 117) and the two stations 1,000 ft from these (Stations 005 and 115) (Figure 3-17; Appendix F).

Levels of total DDx were generally lower at the Lower Bay stations relative to the Bay Ridge Channel, with intermediate values reported at the stations within the Verrazano Narrows and Gravesend Bay (Figure 3-17). Measured levels of total DDx ranged from a group average of 0.001 mg/kg across the Lower Bay stations to 0.012 mg/kg across the Bay Ridge Channel stations (Table 3-5). However, the elevated average at the Bay Ridge Channel stations was driven, in particular, by one sample (Station 116), which was reported with a total DDx concentration of 0.05 mg/kg and was considered an outlier in the data set (Figure 3-17; Appendix F). Aside from this sample, all other samples had total DDx levels below the upper threshold for Class B sediments (<0.03 mg/kg). All of the samples collected across the Lower Bay stations had total DDx concentrations below the lower threshold for Class B sediments (<0.003 mg/kg) (Figure 3-17). Several stations sampled in Gravesend Bay and the Verrazano Narrows, as well as all Bay Ridge Channel samples had total DDx concentrations that exceeded the lower threshold for Class B sediments (>0.003 mg/kg) (Figure 3-17).

Levels of total PCBs were generally lower at the Lower Bay stations relative to the Bay Ridge Channel stations, with intermediate values reported at the stations within Verrazano Narrows and Gravesend Bay (Figure 3-17). Measured levels of total PCBs ranged from a group average of 0.02 mg/kg across the Lower Bay stations to 0.12 mg/kg across the Bay Ridge Channel

stations (Table 3-5). All samples had concentrations of total PCBs that were less than the upper threshold for Class B sediments (<1.0 mg/kg) and most samples had levels that were less than the lower threshold for Class B sediments (<0.1 mg/kg) (Figure 3-17). Four stations within the Bay Ridge Channel (Stations 002, 115, 116, and 117) and one station within the Verrazano Narrows (Station 102) had total PCBs concentrations that exceeded the lower threshold value (>0.1 mg/kg) (Figure 3-17; Appendix F).

Levels of total PAHs were generally lower at the Lower Bay stations relative to the Bay Ridge Channel and Verrazano Narrows Bridge stations, with intermediate values reported at the stations within Gravesend Bay (Figure 3-17). Measured levels of total PAHs ranged from a group average of 0.6 mg/kg across the Lower Bay stations to 8.0 mg/kg across the Verrazano Narrows stations (Table 3-5). However, the elevated average at the Verrazano Narrows stations was driven by a single sample (Station 106), which was reported with a total PAHs concentration of 54.8 mg/kg and was considered an outlier in the data set (Figure 3-17). Aside from this sample, all other samples had total PAHs levels below the upper threshold for Class B sediments (<45.0 mg/kg). All of the samples collected within Gravesend Bay and Lower Bay had total PAHs concentrations below the lower threshold for Class B sediments (<4.0 mg/kg) (Figure 3-17). Several stations sampled in the Bay Ridge Channel and the Verrazano Narrows had total PAHs concentrations that exceeded the lower threshold for Class B sediments (>4.0 mg/kg) (Figure 3-17).

3.3.2 Metals

Results of the five metals analyzed – arsenic, cadmium, copper, lead, and mercury – are summarized in Table 3-6 and presented in Figure 3-18. A complete set of results for all chemical compounds analyzed is provided in Appendix F.

In general, the reported metals concentrations were similar across the Verrazano Narrows, Gravesend Bay, and Lower Bay stations but tended to be elevated in the samples collected in the Bay Ridge Channel compared with the other areas along the planned export cable (Figure 3-18; Table 3-6). All metals concentrations were below their respective upper threshold values for Class B sediments across all sampled stations, with the exception of mercury. The upper threshold value for mercury (>1.0 mg/kg) was exceeded at the three stations in the Bay Ridge Channel located close to shore (Stations 002, 116, and 117) and one station in the Verrazano Narrows (Station 108); mercury levels were an order of magnitude higher than the rest of the samples at Station 108 (13.6 mg/kg) (Figure 3-18; Appendix F). Many samples, including all samples collected within the Bay Ridge Channel, exceeded their respective lower threshold values for Class B sediments, with the exception of cadmium levels, which were never above the lower threshold value for Class B sediments (Figure 3-18). In addition to mercury, levels of arsenic, copper, and lead were frequently higher than their respective lower threshold values for Class B sediments at the Bay Ridge Channel, at Verrazano Narrows, and within Gravesend Bay. Metals concentrations were below lower threshold values for Class B sediments at stations sampled in the Lower Bay.

3.4 Water Column and Sediment Quality Results

3.4.1 Water Column CTD Profiles

Water column temperature and salinity data are summarized in Table 3-7, in-situ profiles are plotted for each station in Figure 3-19, and the complete dataset is provided in Appendix G. Water column temperatures ranged from a station average of 21.3°C at Station 060 (Lower Bay) to 22.8°C at several stations in the Bay Ridge Channel portion of the surveyed area (Stations 003, 004, 005, 006, 010, and 011) (Table 3-7). Water column salinities ranged from a station average of 22.0 PSU at Station 015 (Bay Ridge Channel) to 30.4 PSU at Station 079 (Offshore) (Table 3-7). Mean water column temperature tended to decrease as sampling moved further offshore, while mean water column salinity tended to increase slightly offshore relative to the nearshore stations (Table 3-7).

Water temperatures tended to be homogeneous throughout the water column, exhibiting limited variation in temperature between the surface and the bottom waters. The water column tended to be well mixed at all stations, and very few stations had clear thermoclines. Thermoclines were apparent at some of the Lower Bay Stations (e.g., Stations 057 and 058 [Figure 3-19h]) and Offshore stations, particularly the locations closest to the NY state water boundary (Figures 3-19k and 3-19l). Water column salinity tended to increase slightly with depth at many stations, in particular at the stations in the Bay Ridge Channel, Verrazano Narrows, and Gravesend Bay (Figures 3-19a through 3-19e). The halocline slope and depth varied across stations.

3.4.2 Sediment Temperature Measurements

Sediment temperature measurements are summarized in Table 3-8 and the complete dataset is provided in Appendix G. Sediment temperature measurements ranged from a minimum of 20.8°C at Station 067 to a maximum of 23.8°C at Station 034 (Table 3-8). There were no clear spatial patterns in the sediment temperature results and no clear relationship with measured water depth and sediment temperature.

Table 3-1 Summary of Station Counts Grouped by General Area Along the Cable Route

Project Area	Station ID's Chronologically	SPI/PV	Grab (BCA/GS)	Grab (Chem)	CTD	Sediment Temperature
Bay Ridge Channel	001 - 016, 110 - 117	16	8	12	16	16
Verrazano Narrows	017 - 029, 102 - 116	13	7	12	13	13
Gravesend Bay	030 - 041, 096 - 101	12	6	9	12	12
Lower Bay	042 - 066, 092 - 095	25	12	6	25	25
Offshore	067 - 091	25	13	0	25	25
Total		**91**	**46**	**39**	**91**	**91**

Table 3-2. Summary of Physical Parameters Obtained from SPI and PV Imagery

	Bay Ridge Channel	**Verrazano Narrows**	**Gravesend Bay**	**Lower Bay**	**Offshore**
Station Count (n)	16	13	12	25	25
Mean Prism Penetration Depth (cm) (±SD)	16.3 (±2.2)	7.8 (±3.2)	14.1 (±4.7)	8.0 (±3.6)	5.6 (±1.8)
Mean Boundary Roughness (cm) (±SD)	1.0 (±0.4)	1.4 (±0.4)	1.5 (±0.4)	1.4 (±0.3)	1.6 (±0.6)
SPI Sediment Types Present[1] (# of stations)	**Silt/clay (10)**, Very fine sand (2), Very fine sand over silt/clay (4)	Coarse sand over silt/clay (1), Fine sand (4), Silt/clay (1), **Very fine sand (6)**, Very fine sand over silt/clay (1)	Fine sand over silt/clay (1), Silt/clay (1), **Very fine sand (9)**, Very fine sand over silt/clay (1)	Coarse sand (1), **Fine sand (9)**, Fine sand over silt/clay (1), Medium sand (6), Silt/clay (2), Very fine sand (4), Very fine sand over silt/clay (2)	Coarse sand (7), Fine sand (5), **Medium sand (12),** Very coarse sand (1)
CMECS Substrate Groups Present[1,2] (# of stations)	Gravelly (1), **Sand or finer (15)**	Gravel Mixes (1), **Sand or finer (9)**, Shell Substrate (3)	**Sand or finer (9)**, Shell Substrate (3)	**Sand or finer (18)**, Shell Substrate (7)	**Sand or finer (24)**, Shell Substrate (1)
CMECS Substrate Subgroups Present[1,2] (# of stations)	Gravelly Sand (1), **Silt/Clay (9)**, Very Fine Sand (6)	Coarse Sand (1), Fine Sand (3), Sandy Gravel (1), Shell Hash (3), Silt/Clay (1), **Very Fine Sand (4)**	Fine Sand (1), Shell Hash (3), Silt/Clay (1), **Very Fine Sand (7)**	Coarse Sand (1), **Fine Sand (9)**, Medium Sand (6), Shell Hash (7), Very Fine Sand (2)	Coarse Sand (7), Fine Sand (5), **Medium Sand (12)**, Mussel Reef Substrate (1)
Maximum Gravel Size Category[1] (# of stations)	Pebble/Granule (1)	Pebble/Granule (2)	No Gravels Observed	Pebble/Granule (1)	Cobble (1)
Bedforms Present (# of stations)	None	Ripples (1)	Ripples (3)	Ripples (12)	Ripples (22)

Indeterminate results not included if multiple observed.
1 Includes most prevalent result across all stations, in **bold** font if multiple results were observed.
2 Variable determined from combined SPI/PV analysis.

Table 3-3. Summary of Biological Parameters Obtained from SPI and PV Imagery

	Bay Ridge Channel	Verrazano Narrows	Gravesend Bay	Lower Bay	Offshore
Station Count (n)	16	13	12	25	25
Mean aRPD Depth (cm) (±SD)	2.1 (±0.8)	2.8 (±1.1)	2.1 (±0.5)	2.7 (±0.9)	2.8 (±0.1)
Highest Successional Stage[1] (# of stations)	2 on 3 (6)	2 on 3 (7)	2 on 3 (7)	2 on 3 (5)	1 on 3 (1)
CMECS Biotic Subclasses Present[2] (# of stations)	IND	Attached Fauna (1)	Attached Fauna (3)	**Attached Fauna (8)**, Inferred Fauna (2), Mollusk Reef Biota (1), **Soft Sediment Fauna (8)**	Mollusk Reef Biota (3), **Soft Sediment Fauna (12)**
Maximum Attached Fauna Percent Coverage Present[2] (# of stations)	IND	Moderate (30 to <70%) (1)	Sparse (1 to <30%) (3)	Moderate (30 to <70%) (1), Sparse (1 to <30%) (4), **Trace (<1%) (5)**	Dense (70 to <90%) (1), Moderate (30 to <70%) (1), **Trace (<1%) (2)**
Sensitive Taxa Present[1] (# of stations)	None	None	None	None	None
Species of Concern Present[1] (# of stations)	None	None	None	None	None
Non-Native Taxa Present[1]	None	None	None	None	None
Sessile Epifauna Present[1]	Anemones, Bryozoa/Hydroids, Molluscs	Anemones, *Crepidula*, Encrusting Bryozoa, Mussels, Sponge	Bryozoa/Hydroids, *Crepidula*, Encrusting Bryozoa, Sponges	Bryozoa/Hydroids, *Crepidula*, Encrusting Bryozoa, Mussels, Sponges	Mussels, Sponge
Mobile Epifauna Present[1]	None	Crab	Crab, Hermit Crab, Spider Crab	Cancer Crab, Hermit Crabs, Sea Star, Sea Urchins, Snails, Spider Crab	Hermit Crabs, Snail
Fish Present	None	None	None	Unidentified	Flounder

Indeterminate results not included if multiple observed.
1 Variable determined from combined SPI/PV analysis.
2 Includes most prevalent result across all stations, in **bold** font if multiple results were observed.

Table 3-4. Summary of Grab Sample Grain Size Analysis Results Grouped by Defined Areas

Spatial Group	Station Count (n)	% Gravel (± SE)	% Very Coarse Sand (± SE)	% Coarse Sand (± SE)	% Medium Sand (± SE)	% Fine Sand (± SE)	% Very Fine Sand (± SE)	% Total Fines (± SE)
Bay Ridge Channel	8	4.5 ± 1.4	7.4 ± 1.4	5.1 ± 0.8	2.8 ± 0.4	4.3 ± 1.5	16.1 ± 5.1	**59.9 ± 6.9**
Verrazano Narrows	7	13.9 ± 2.7	5.9 ± 0.5	7.4 ± 1.7	9.4 ± 1.4	**32.6 ± 3.0**	12.3 ± 2.9	18.5 ± 4.0
Gravesend Bay	6	19.2 ± 4.0	7.3 ± 1.4	5.2 ± 1.2	3.8 ± 0.9	12.4 ± 3.3	22.9 ± 5.3	**29.2 ± 6.7**
Lower Bay	12	13.7 ± 3.8	5.0 ± 1.2	8.6 ± 1.9	25.3 ± 6.1	**28.2 ± 4.9**	9.2 ± 3.1	10.0 ± 3.9
Offshore	13	3.4 ± 1.1	5.7 ± 2.5	16.3 ± 5.7	18.6 ± 4.5	**46.5 ± 8.5**	4.9 ± 1.5	4.7 ± 2.2

Highest percent composition within an area is shown in **bold** font.

Table 3-5. Average Concentrations of Summed Organic Analytes Grouped by Defined Areas

		Average and Standard Error of the Summed Analyte Groups (mg/kg DW)[1]				
Area	**Number of Samples (n)**	**Total Chlordane[3]**	**Total DDx[4]**	**Total PCBs[5]**	**Total PAHs[6]**	**Total Solids (%)**
Bay Ridge Channel Stations[2]	12	**0.04 ± 0.003**	**0.012 ± 0.004**	**0.12 ± 0.02**	**4.6 ± 0.4**	38 ± 3
Verrazano Narrows Stations[2]	12	**0.02 ± 0.002**	**0.004 ± 0.0004**	0.06 ± 0.01	**8.0 ± 4.3**	63 ± 3
Gravesend Bay Stations[2]	9	**0.02 ± 0.003**	**0.004 ± 0.001**	0.05 ± 0.01	1.7 ± 0.5	62 ± 3
Lower Bay Stations	6	**0.01 ± 0.003**	0.001 ± 0.0004	0.02 ± 0.003	0.6 ± 0.2	72 ± 1
Sediment Quality Thresholds (Class B)	**Lower**	0.003	0.003	0.1	4	N/A
	Upper	0.036	0.030	1.0	45	N/A

N/A=Not Applicable
1 Non-detected compounds were summed using ½ the MDL.
2 Averages of duplicate field samples at Stations 100, 110, 103, 116, were used for calculation of summary results.
3 Total Chlordane is the sum of four compounds (i.e., alpha-chlordane (cis), gamma-chlordane (trans), Oxychlordane, Chlordane).
4 Total DDx is the sum of 2,4'-DDD, 2,4'-DDE, 2,4'DDT, 4,4'-DDD, 4,4'-DDE, and 4,4'DDT.
5 Total PCB is the sum of the 9 Aroclor congeners.
6 Total PAH is the sum of the 18 PAH compounds analyzed (naphthalene, 2-methylnaphthalene, 2-chloronaphthalene, acenaphthylene, acenaphthene, fluorene, anthracene, phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene).
Values in **bold** show concentration exceeds Lower Threshold Value.

Table 3-6. Average Concentrations of Metals Grouped by Defined Areas

		Average and Standard Error of Metals (mg/kg)				
Area	**Number of Samples (n)**	**Arsenic**	**Cadmium**	**Copper**	**Lead**	**Mercury**
Bay Ridge Channel Stations[2]	12	**11.2 ± 1.5**	0.6 ± 0.1	**63.8 ± 9.4**	**84.1 ± 10.4**	**0.84 ± 0.12**
Verrazano Narrows Stations[2]	12	4.9 ± 0.4	0.2 ± 0.02	18.2 ± 2.5	38.5 ± 8.2	**1.37 ± 1.11**
Gravesend Bay Stations[2]	9	3.6 ± 0.6	0.3 ± 0.04	18.9 ± 3.6	30.1 ± 4.8	**0.28 ± 0.05**
Lower Bay Stations	6	2.0 ± 0.1	0.2 ± 0.04	6.1 ± 1.3	13.5 ± 1.6	0.10 ± 0.02
Sediment Quality Thresholds (Class B)	Lower	8.2	1.2	33	47.0	0.17
	Upper	53.0	9.5	270	218	1.00

1 Non-detected compounds were summed using ½ the MDL.
2 Averages of duplicate field samples at Stations 100, 110, 103, 116, were used for calculation of summary results.
Values in **bold** show concentration exceeds Lower Threshold Value.
Values in **bold** and highlighted show concentration exceeds Upper Threshold Value

Table 3-7. Summary of Water Column Temperature and Salinity Data

		Bay Ridge Channel	Verrazano Narrows	Gravesend Bay	Lower Bay	Offshore
	Station Count (n)	16	13	12	25	25
Water Depth (m)	**Maximum**	14.9	30.8	12.6	20.0	11.7
	Minimum	7.5	9.4	8.4	8.2	5.7
	Mean	12.0	17.8	9.8	14.1	8.9
Mean Temperature (C)	**Maximum**	22.8	22.7	22.6	22.2	22.2
	Minimum	22.6	22.0	22.1	21.3	21.4
	Mean	22.7	22.4	22.4	21.9	21.8
Mean Salinity (PSU)	**Maximum**	25.2	27.9	27.6	29.8	30.4
	Minimum	22.0	22.7	25.3	26.3	27.7
	Mean	23.5	25.8	26.3	28.1	29.3

Table 3-8. Summary of Sediment Temperature Measurements

		Bay Ridge Channel	Verrazano Narrows	Gravesend Bay	Lower Bay[1]	Offshore
	CTD Casts (n)	16	13	12	26	25
Bottom Depth (m)	**Maximum**	15.6	31.3	13.7	20.7	16.6
	Minimum	8.4	9.5	8.0	9.1	6.2
	Mean	12.7	18.4	10.1	14.9	9.7
Temperature (C)	**Maximum**	22.3	22.7	23.8	22.5	22.1
	Minimum	20.9	21.3	21.0	21.0	20.8
	Mean	21.6	21.8	22.3	21.4	21.4

Notes: 1 Station 058 included two sampled sediment temperature casts, 058A and 058B.

4.0 SUMMARY

INSPIRE completed a pre-construction benthic survey along the NY state waters portion of the EW 1 planned export cable route in partial fulfillment of the *Empire Wind 1 Benthic Sampling Plan New York State Waters*. The survey was completed from 30 August to 1 September 2023 onboard the R/V *Atlantic Surveyor.* Sampling included the collection of a total of 91 SPI/PV stations, 46 sediment grab stations for grain size analysis and BCA, and 39 sediment grab stations for chemistry analyses. Water column profiles of temperature and salinity as well as surficial sediment temperature readings were collected at all 91 SPI/PV stations. To facilitate discussion on broad spatial trends, the results were described based on defined spatial groupings: the Bay Ridge Channel, the Verrazano Narrows, Gravesend Bay, Lower Bay, and Offshore.

Measured depth profiles of temperature and salinity revealed generally well-mixed water columns at every station. Mean water column temperature tended to decrease as sampling moved further offshore, while mean water column salinity tended to increase slightly offshore relative to the nearshore stations. Water temperatures tended to be homogeneous throughout the water column, exhibiting limited variation in temperature between the surface and the bottom waters. The water column tended to be well mixed at all stations, and very few stations had clear thermoclines. Water column salinity tended to increase slightly with depth at many stations, in particular at the stations in the Bay Ridge Channel, Verrazano Narrows, and Gravesend Bay. The halocline slope and depth varied across stations.

The sediments observed in the Bay Ridge Channel were composed of very soft Silt/Clay and Very Fine Sand (CMECS Substrate Subgroup), resulting in deep penetration depths of the SPI camera. High water column turbidity in this area resulted in limited inferences that could be gleaned from the PV imagery (CMECS Biotic Subclass). However, the SPI imagery provided ample information about the benthic community functioning. The aRPD depths were generally shallow to intermediate, with clear distinctions between the oxygenated surface sediments and the reduced underlying sediments. Methane was observed in the sediment column at a few of the stations in the Bay Ridge Channel. Despite evidence of low oxygen conditions in the sediment column, the infaunal communities observed in SPI were typically classified with Stage 3 taxa present, as indicated by the presence of deep voids in the sediment column. Generally, the chemical constituents measured at the Bay Ridge Channel were more frequently above the respective lower threshold values for Class B sediments compared to the other regions surveyed along the cable route.

The sediments composition was variable across the stations within the Verrazano Narrows ranging from Silt/Clay to Sandy Gravel (CMECS Substrate Subgroup). High water column turbidity in this area resulted in limited inferences that could be gleaned from the PV imagery (CMECS Biotic Subclass). However, the SPI imagery provided ample information about the benthic community functioning. Infaunal successional stage was typically documented as Stage 1->2 and suggests the community may be adapted to frequent physical disturbances. In

general, the chemical constituents analyzed in this survey area were intermediate in concentrations relative to the other spatial groups along the planned EW 1 export cable. Levels above the respective lower threshold for Class B sediments were reported for total chlordane, total DDx, total PAHs, lead, and mercury. Levels above the respective higher threshold for Class B sediments were reported for total PAHs (one station) and mercury (one station).

Within Gravesend Bay the sediments were generally characterized as Very Fine Sand (CMECS Substrate Subgroup), with the exception of the stations on the south side of Gravesend Bay adjacent to Coney Island which were described as Shell Hash (CMECS Substrate Subgroup). Measured aRPD depths were intermediate at these stations and several stations were documented as having methane in the sediment column suggesting high benthic respiration rates. Infaunal successional stage was typically advanced with observations of deep burrowing polychaetes and/or voids indicating the presence of Stage 3 taxa. The Shell Hash stations at the south side of Gravesend Bay were characterized as Attached Fauna communities (CMECS Biotic Subclass). At these stations the surficial shell material overlaying silt/clay and very fine sand was colonized by mobile and sessile epifauna. However, the percent cover of attached fauna was typically described as Trace (<1%) or Sparse (1 to <30%). Within Gravesend Bay total PCBs, total PAHs, and metals levels were typically lower than the respective lower threshold values for Class B sediments, with the exception of mercury; pesticides (total chlordane and total DDx) were often above the respective lower threshold values for Class B sediments.

Clear spatial trends in the seafloor composition and benthic communities were observed at stations located through the Lower Bay region of the planned EW 1 export cable route. The region south of Gravesend Bay was composed of Shell Hash (CMECS Substrate Subgroup) and typically characterized as Attached Fauna, similar to those described above in Gravesend Bay. Silt/clay and Very Fine Sand (CMECS Substrate Subgroup) were observed at the stations in the central part of the Lower Bay region and Medium Sand occurred at the transition between the Lower Bay and Offshore stations. Measurements of aRPD depths were either indeterminate, particularly at the stations where shell material interfered, or intermediate to deep (stations in the central portion of the Lower Bay). The chemical constituents measured at the stations located in the Lower Bay region of the planned EW 1 export cable route were typically lower than the other geographic regions and almost always below the respective lower threshold values for Class B sediments. One exception to this was total chlordane, levels of which exceeded the lower threshold value but were below the upper threshold value for Class B sediments.

The sediments observed at the stations in the Offshore region of the planned EW 1 export cable route were generally composed of either Coarse Sand or Medium Sand, with one station consisting of Mussel Reef Substrate (CMECS Substrate Subgroup). Sand ripples on the seafloor were observed at nearly all Offshore stations indicating high hydrodynamic energy in this area. Given the sandy nature and the frequent natural physical disturbance of the surface sediments of this portion of the cable, aRPD depths and infaunal successional stage

classifications were often indeterminate. The benthic environment at these Offshore stations is typical of regions with higher hydrodynamic energy, inhabited by benthic organisms adapted to frequent natural physical disturbances. Chemical analyses were not conducted on any of the stations in the Offshore portion of the planned EW 1 export cable route.

Overall, the benthic conditions observed during this survey were consistent with results from the 2019 benthic assessment survey along this planned cable route and described in the Empire Wind COP, Appendix T, Benthic Resources Characterization Report (INSPIRE 2019a). The results from this study will serve as pre-construction baseline conditions that will allow for the monitoring of effects associated with cable installation and operations following construction.

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Empire Wind
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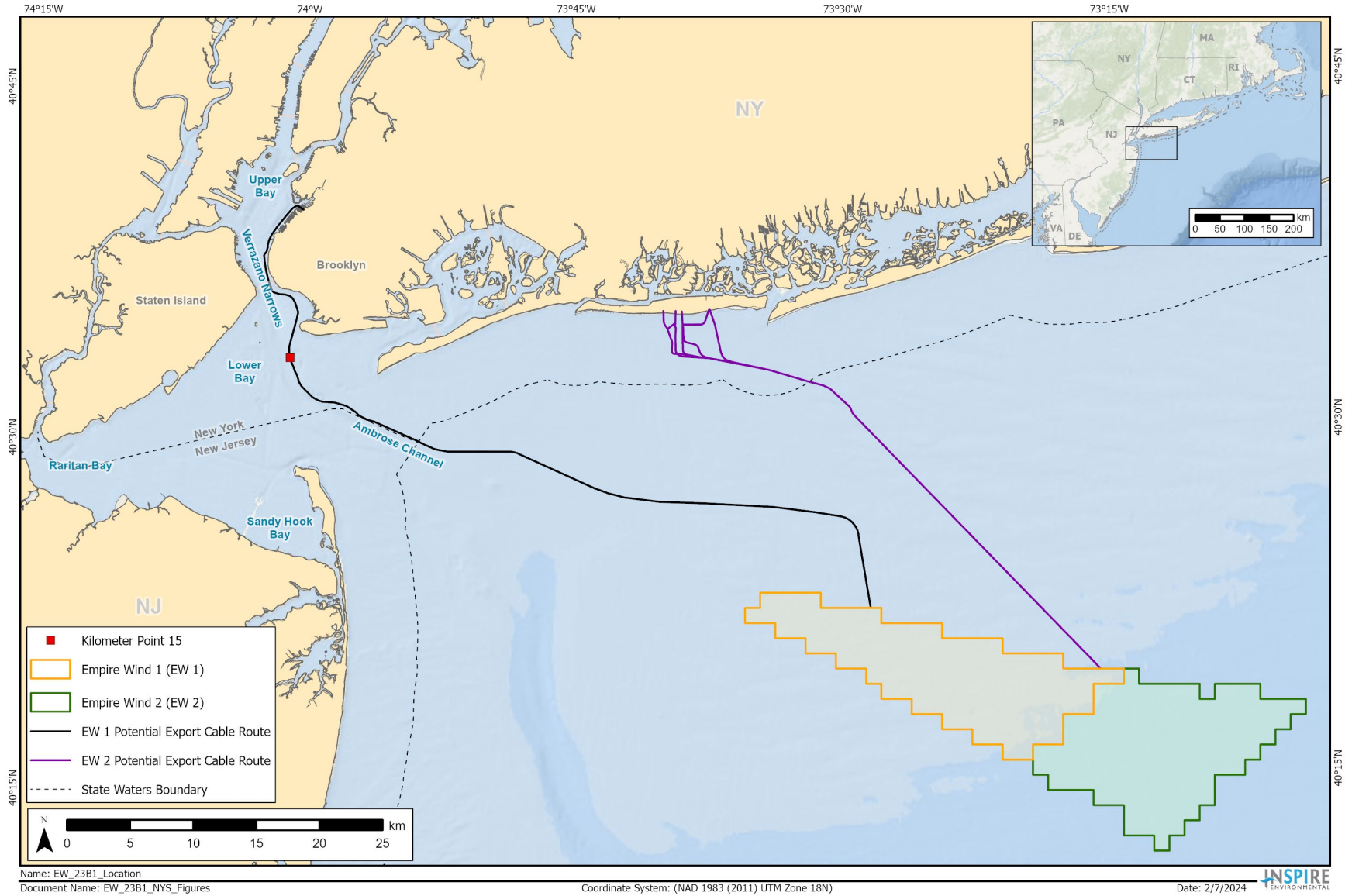


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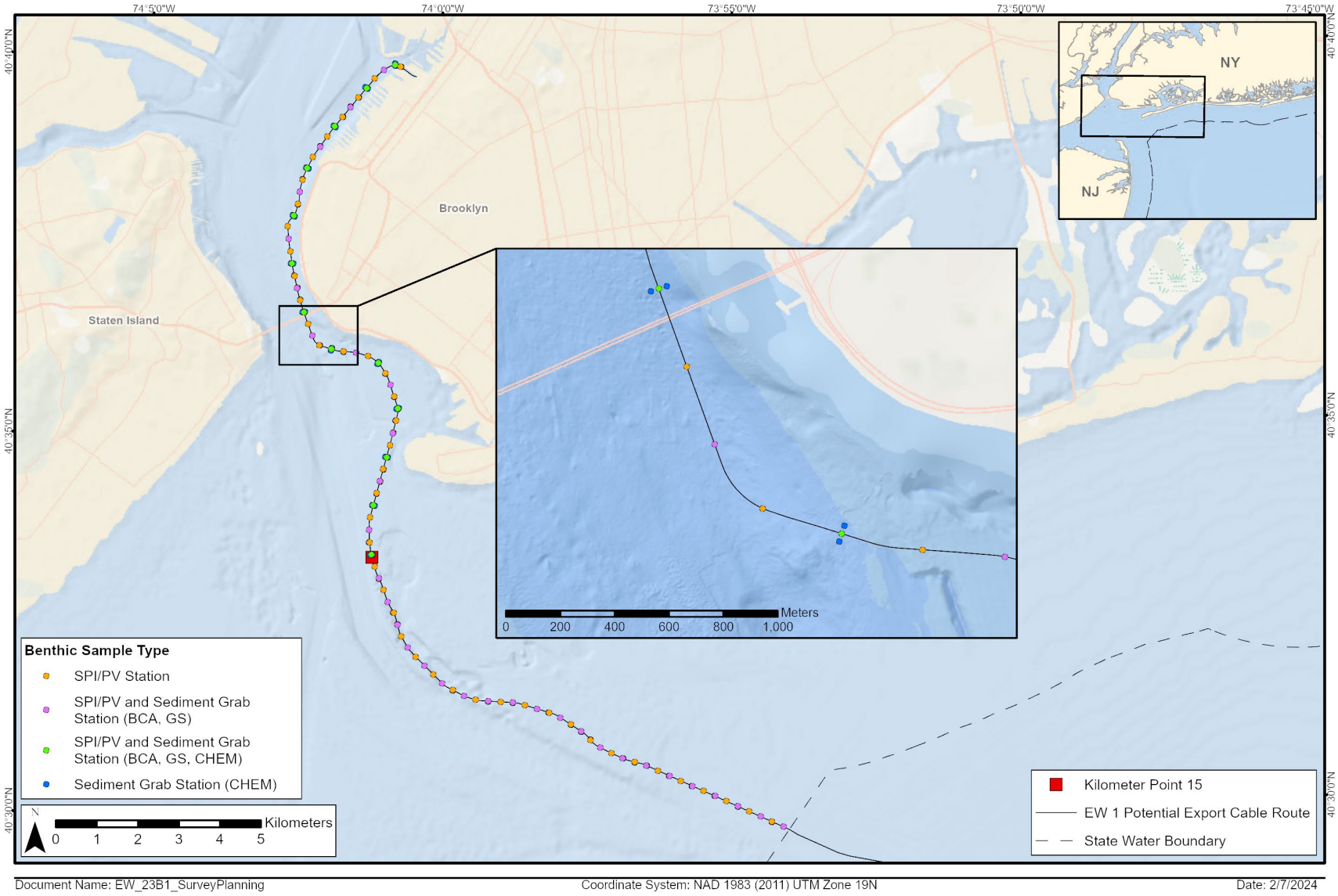


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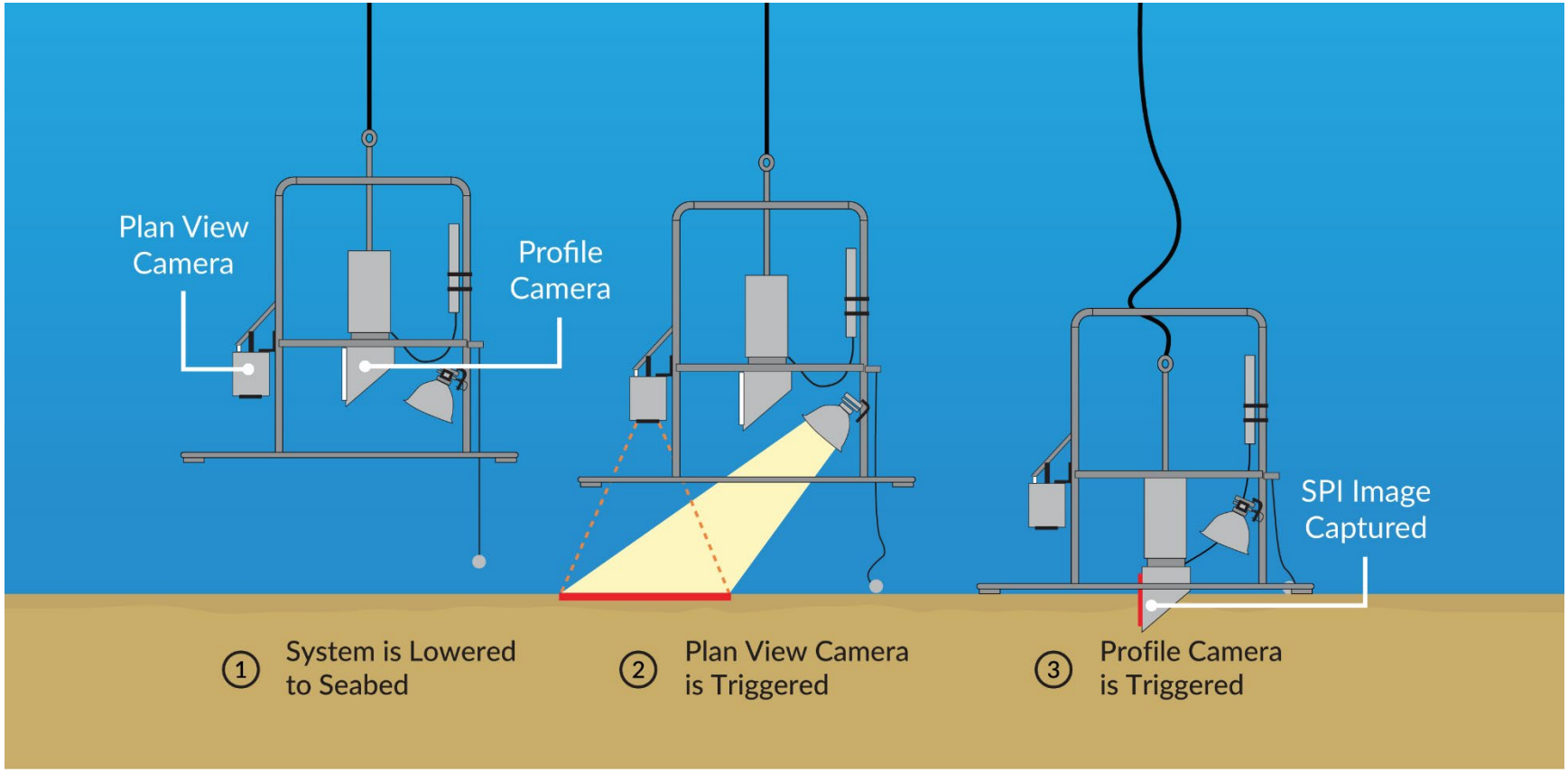


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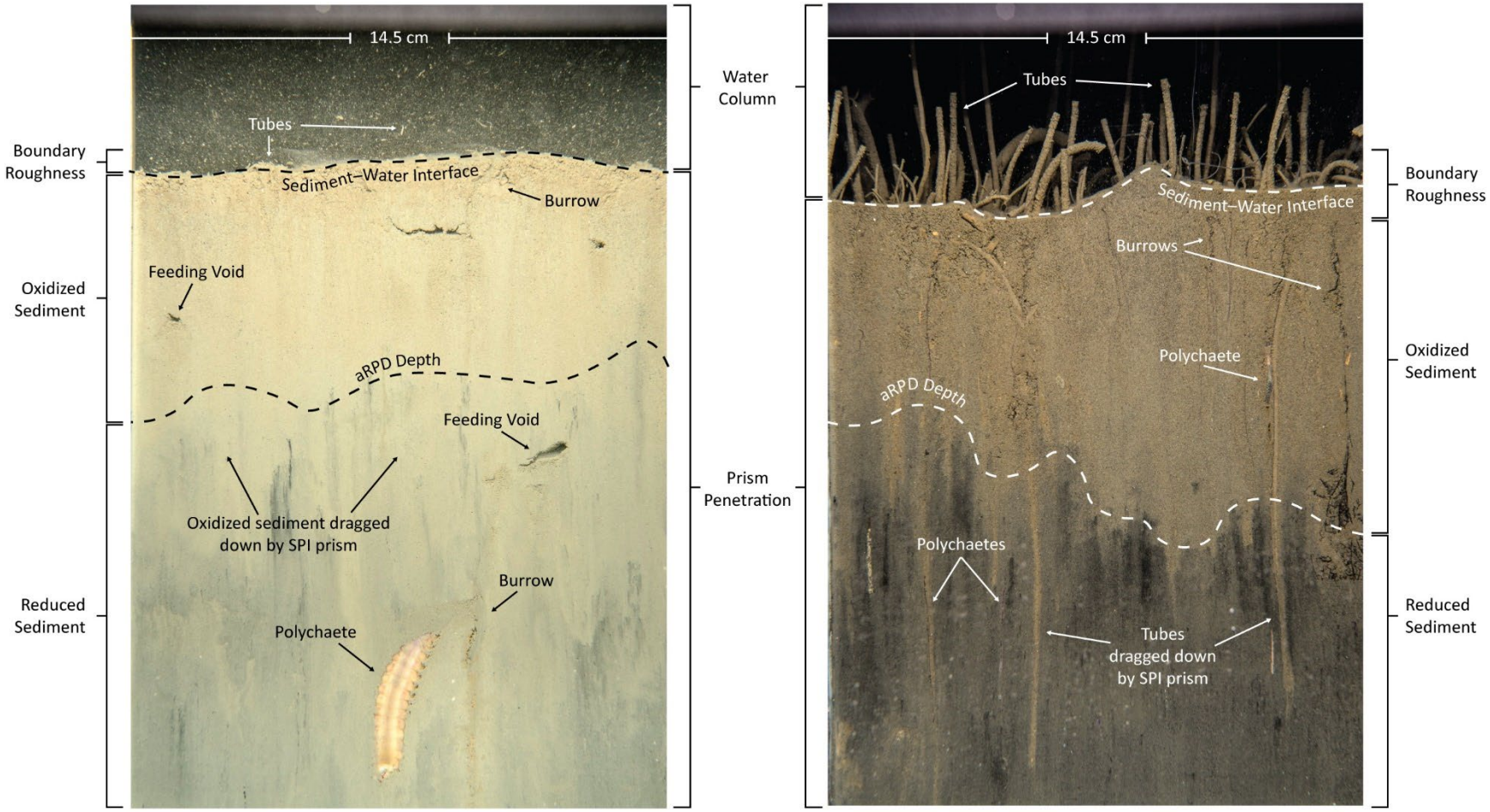


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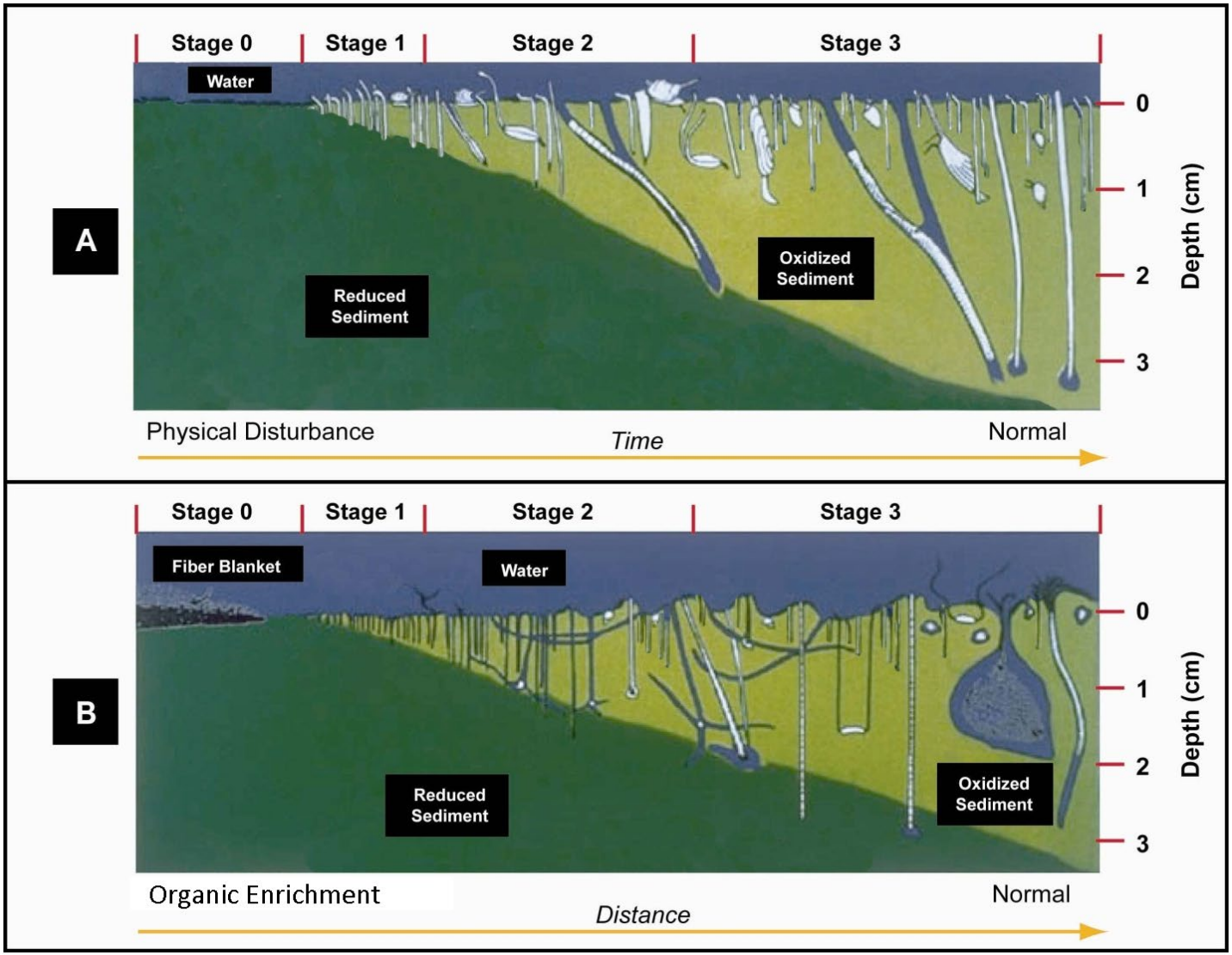


Figure 2-5. The stages of infaunal succession as a response of soft-bottom benthic communities to (A) physical disturbance or (B) organic enrichment; from Rhoads and Germano (1982)

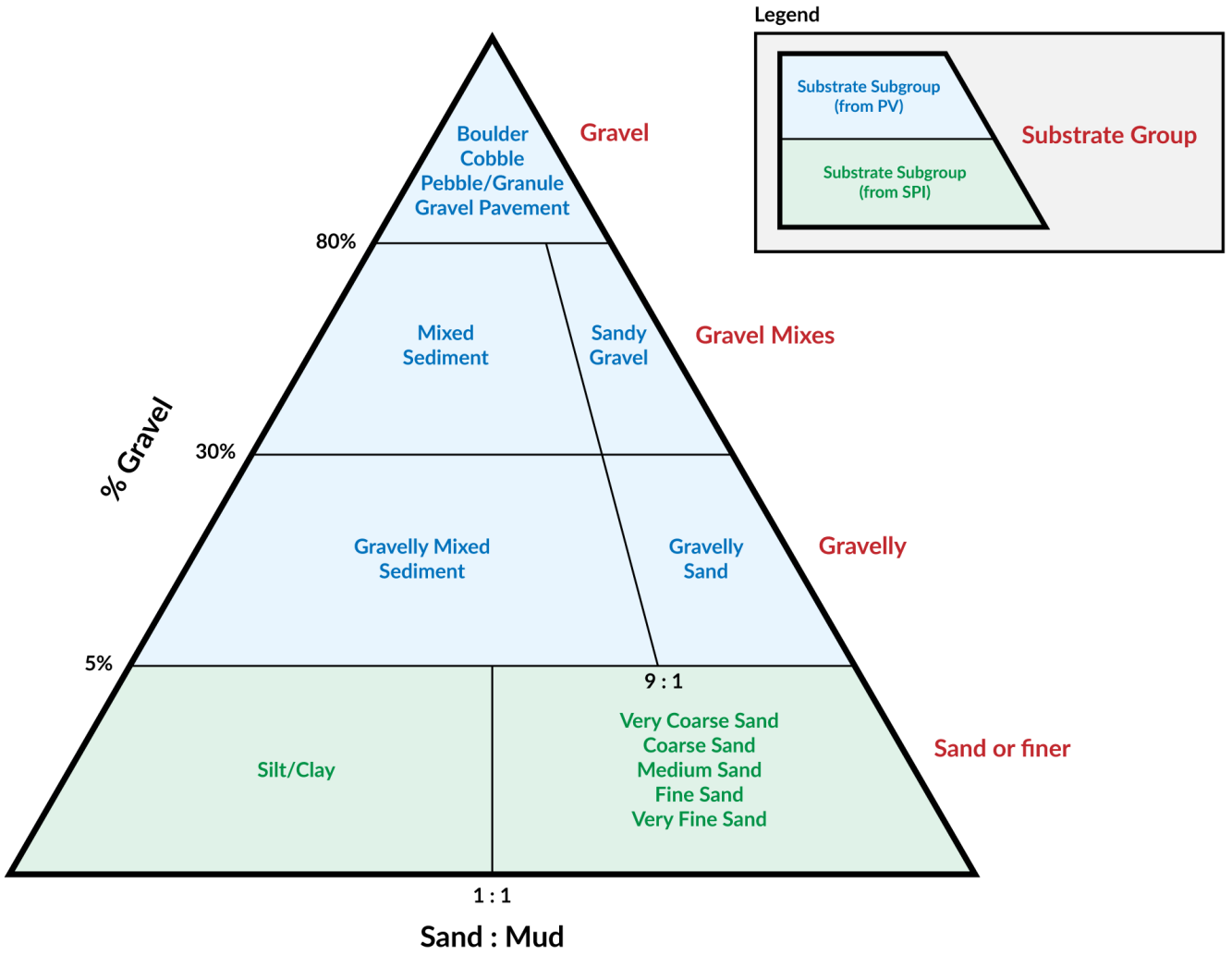


Figure 2-6. ***A ternary diagram adapted from Folk (1954) by CMECS (FGDC 2012) and further tailored for SPI/PV data. The diagram illustrates the standard Folk threshold values for Gravel-Sand-Mud combinations for classifying CMECS Substrate Group and Subgroup. Grain size bins are determined using Wentworth (1922) as described in the text.***

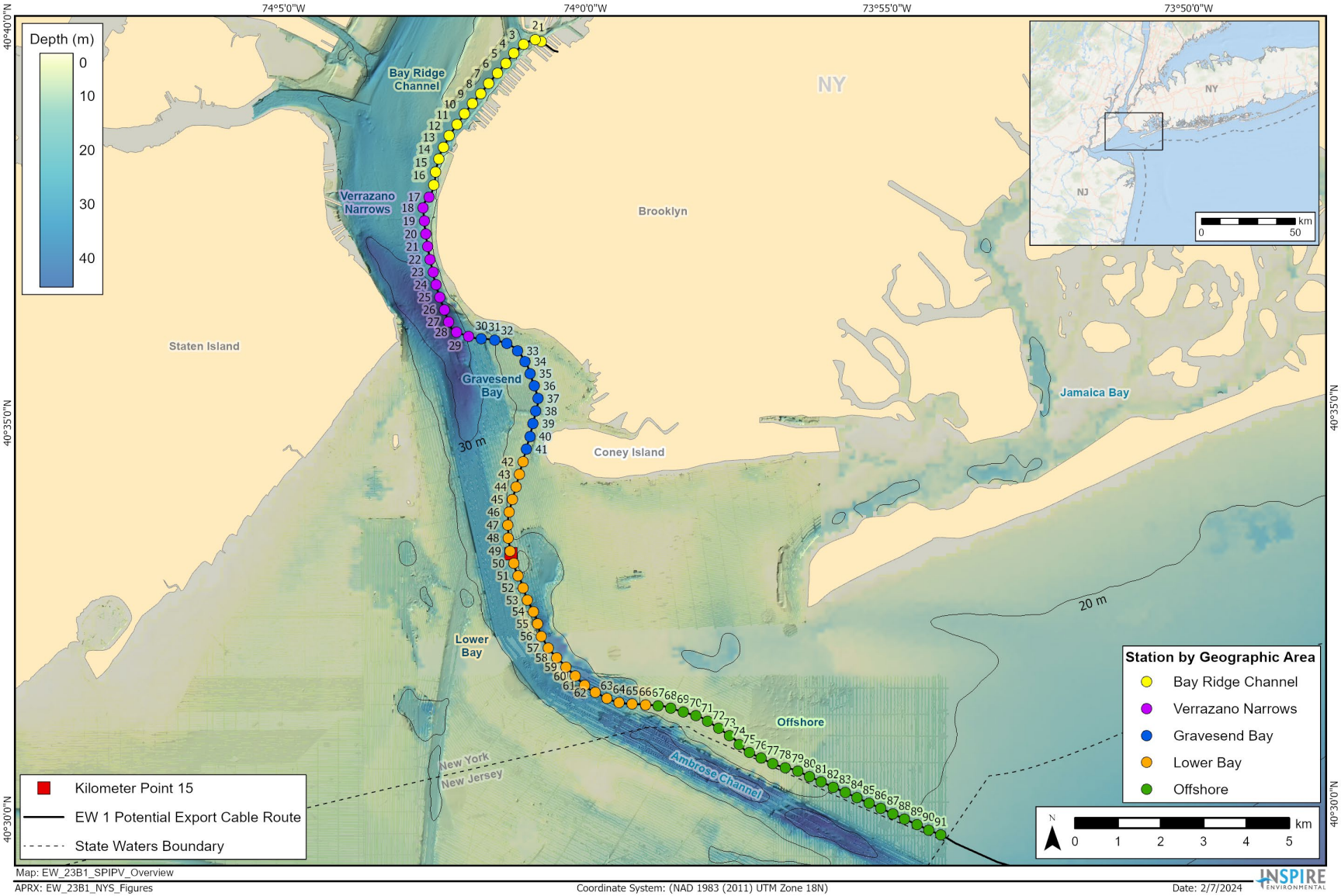


Figure 3-1. Station locations assigned to general geographic areas for the purpose of describing spatial trends of the results

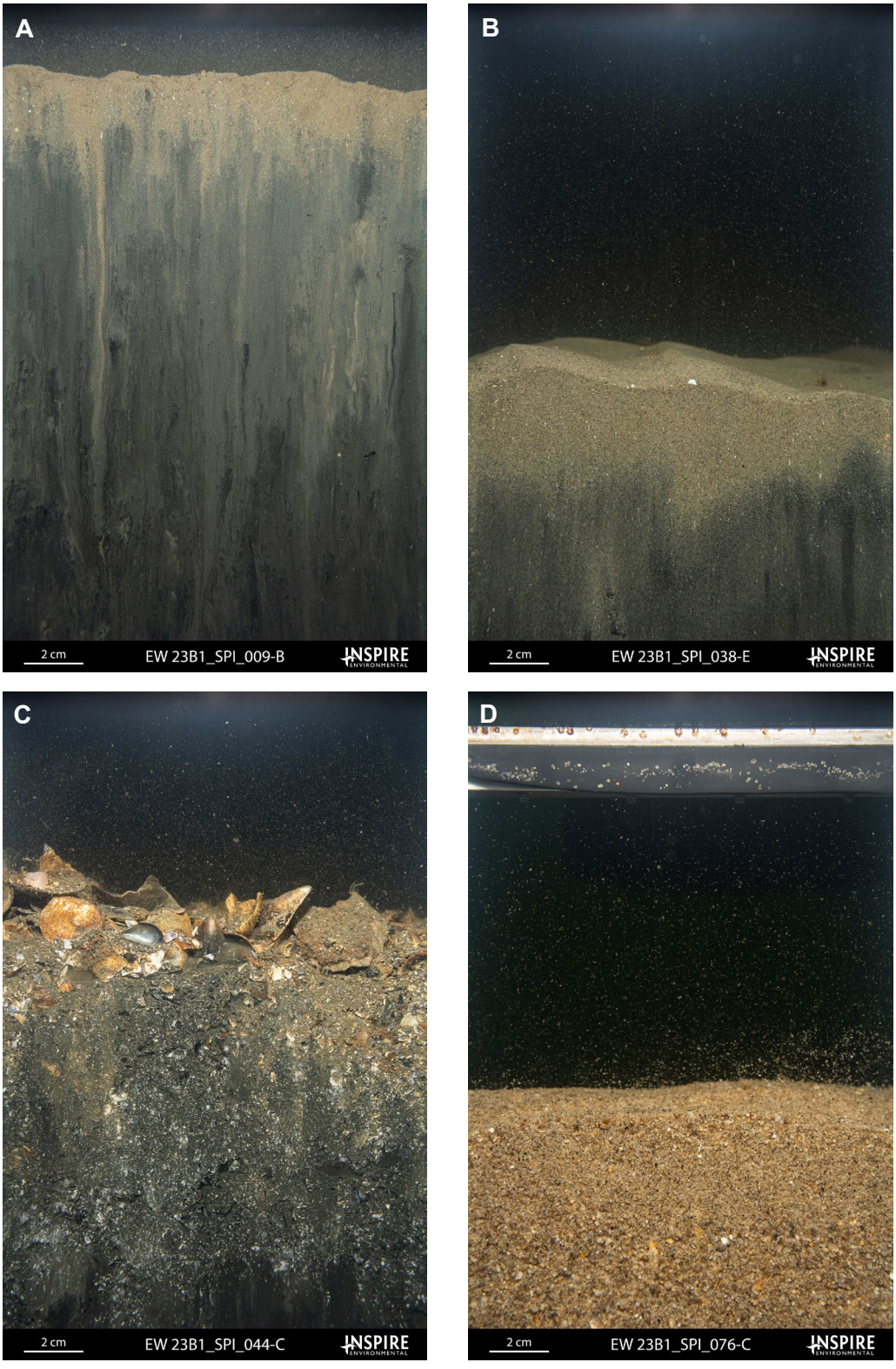


Figure 3-2. Representative profile images depicting the range in physical substrate characteristics observed along the NY state EW 1 planned export cable route including (A) very soft sediments along the Bay Ridge Channel; (B) soft sandy material within Gravesend Bay; (C) fine sediments underlying a layer of coarse shell hash in the Lower Bay; and (D) sandy sediments near the NY state waters boundary

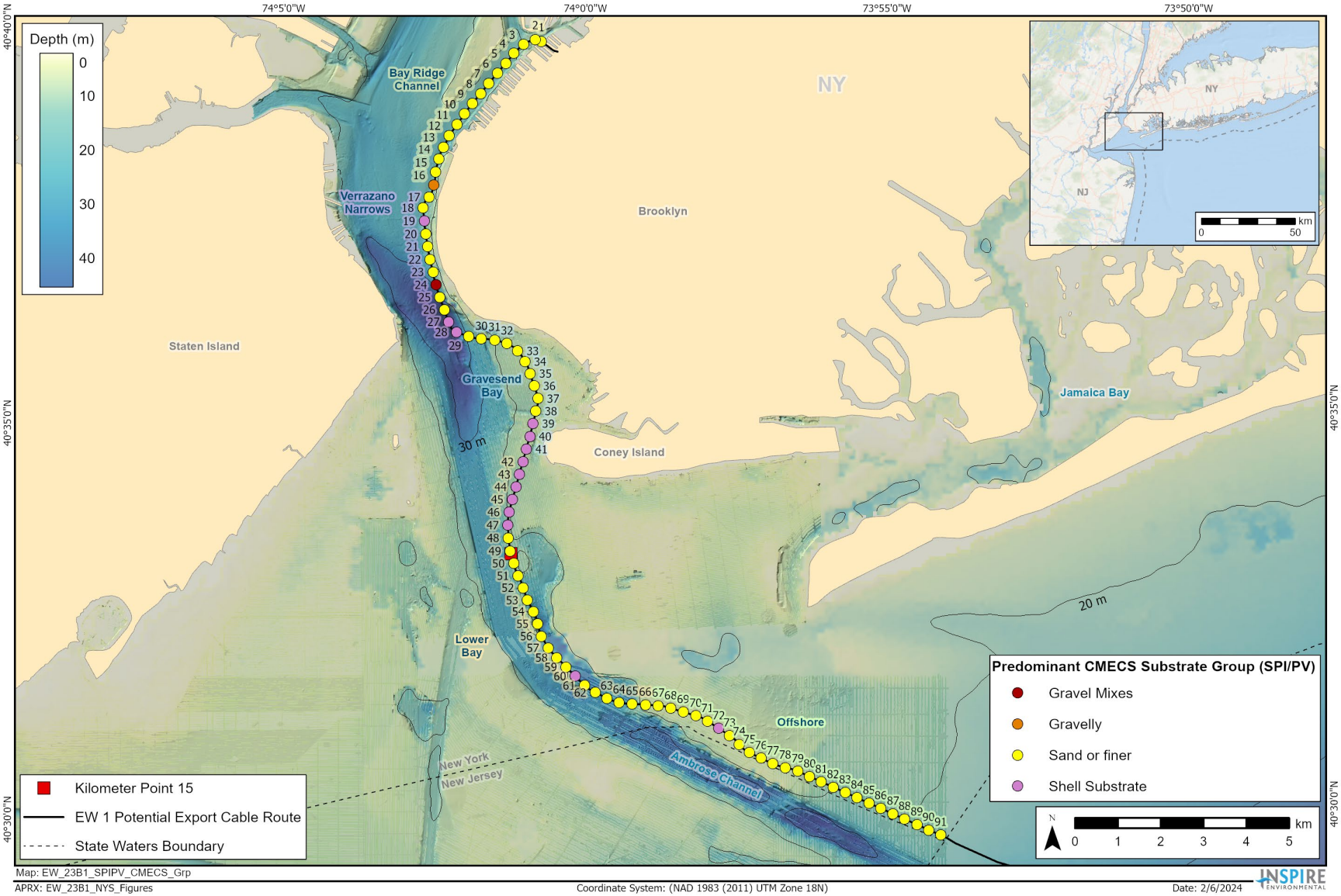


Figure 3-3. Predominant Coastal and Marine Ecological Classification Standard (CMECS) Substrate Group documented along the NY state EW 1 planned export cable route

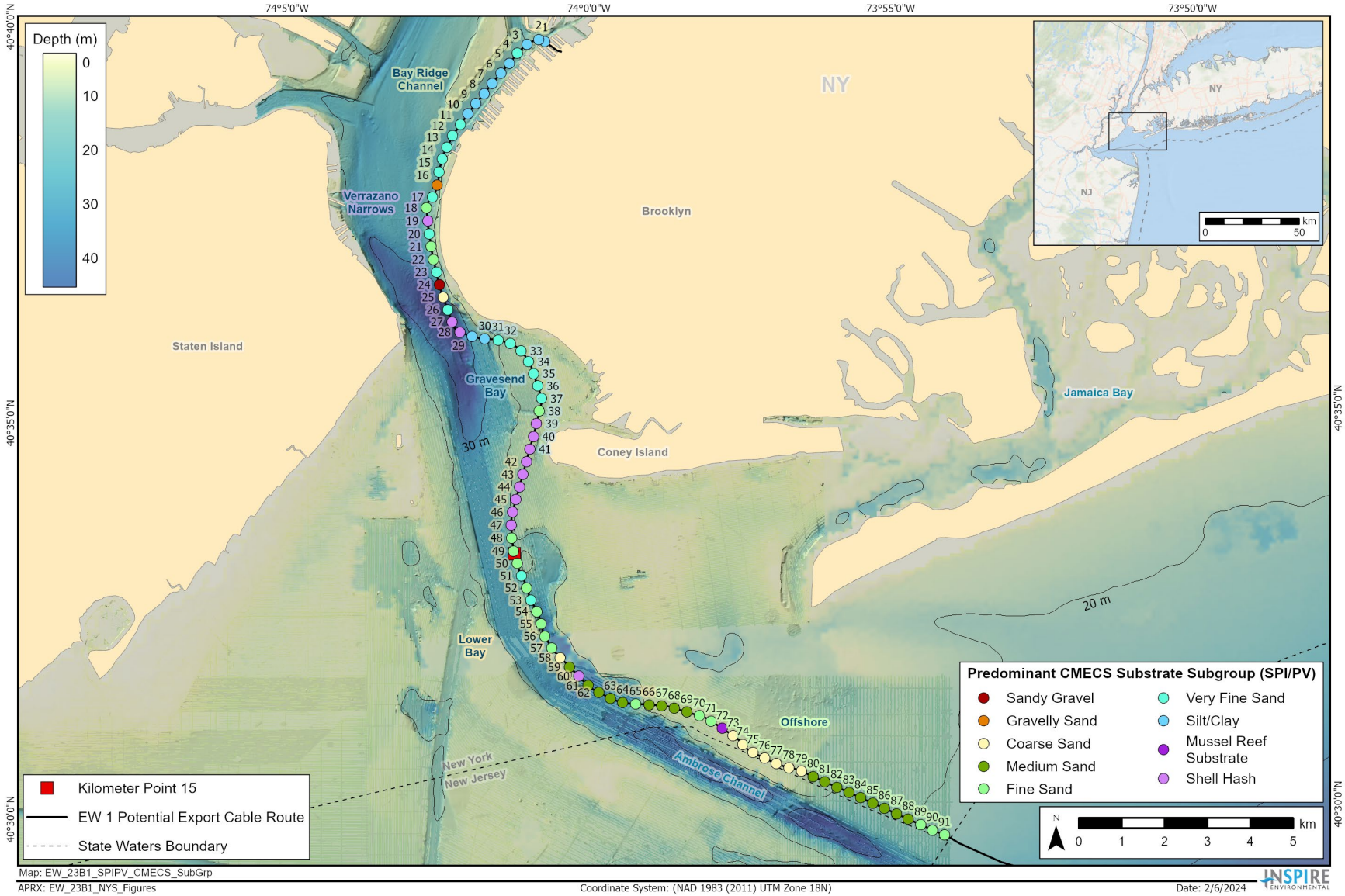


Figure 3-4. Predominant CMECS Substrate Subgroup documented along the NY state EW 1 planned export cable route

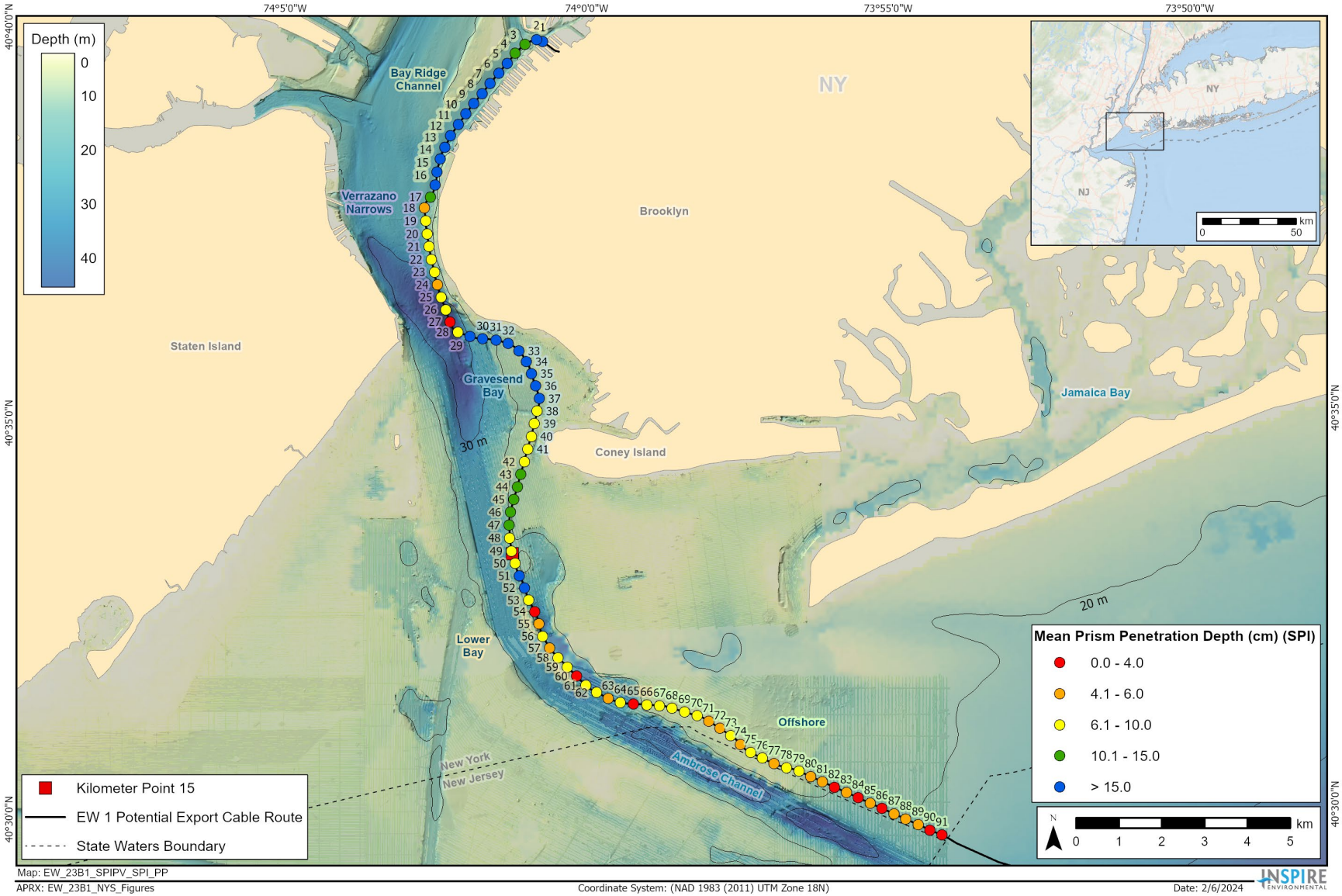


Figure 3-5. Mean station camera prism penetration depths (cm) along the NY state EW 1 planned export cable route

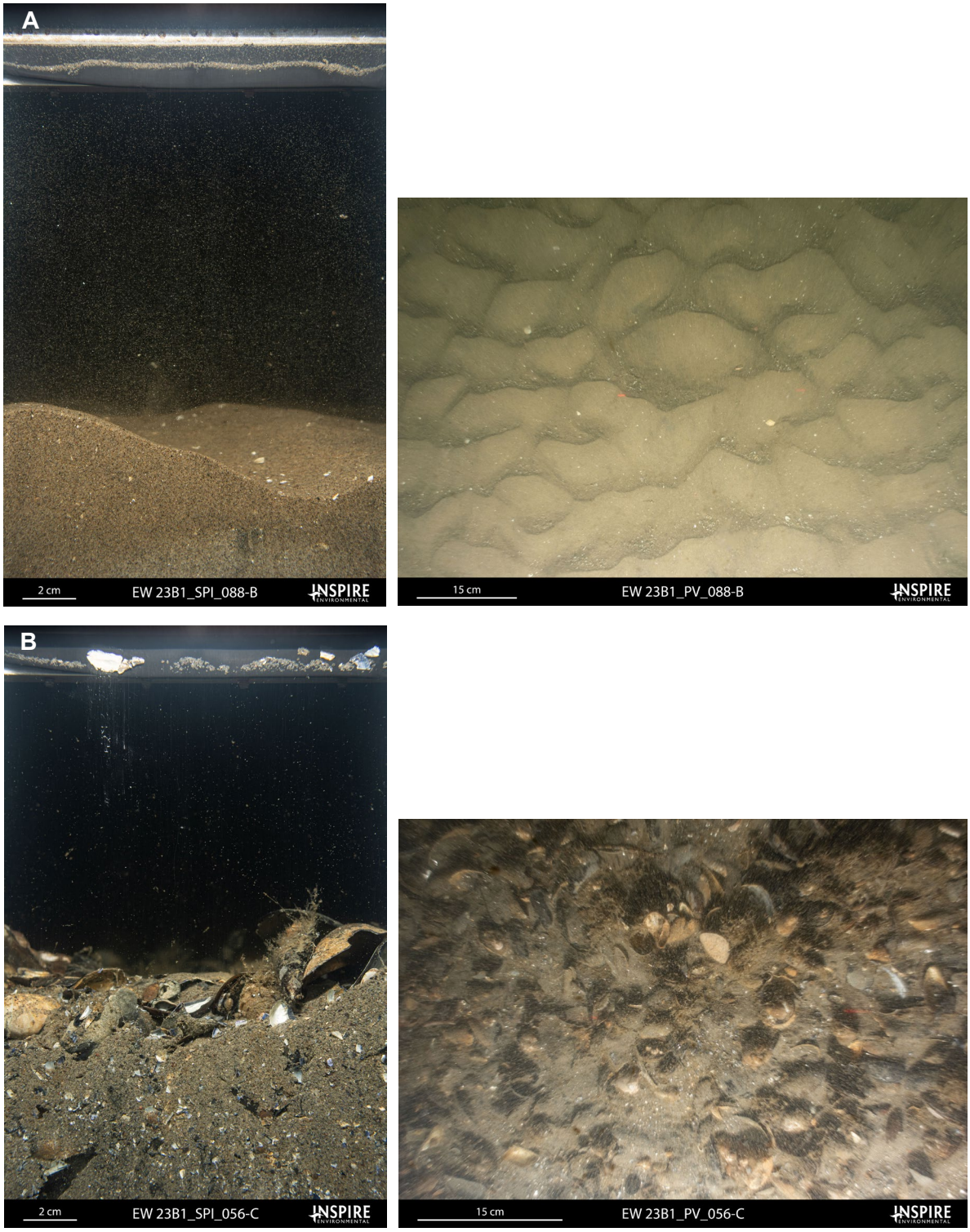


Figure 3-6. Representative profile and plan view images depicting boundary roughness observed at the surveyed area including (A) large boundary roughness where sand ripples were observed in the PV imagery suggesting physical drivers are important in sediment dynamics in this area; (B) moderate boundary roughness at a station with a layer of shell on the surface of the sediments; and (C) relatively small boundary roughness driven by biological factors



Figure 3-6. continued Representative profile and plan view images depicting boundary roughness observed at the surveyed area including (A) large boundary roughness where sand ripples were observed in the PV imagery suggesting physical drivers are important in sediment dynamics in this area; (B) moderate boundary roughness at a station with a layer of shell on the surface of the sediments; and (C) relatively small boundary roughness driven by biological factors

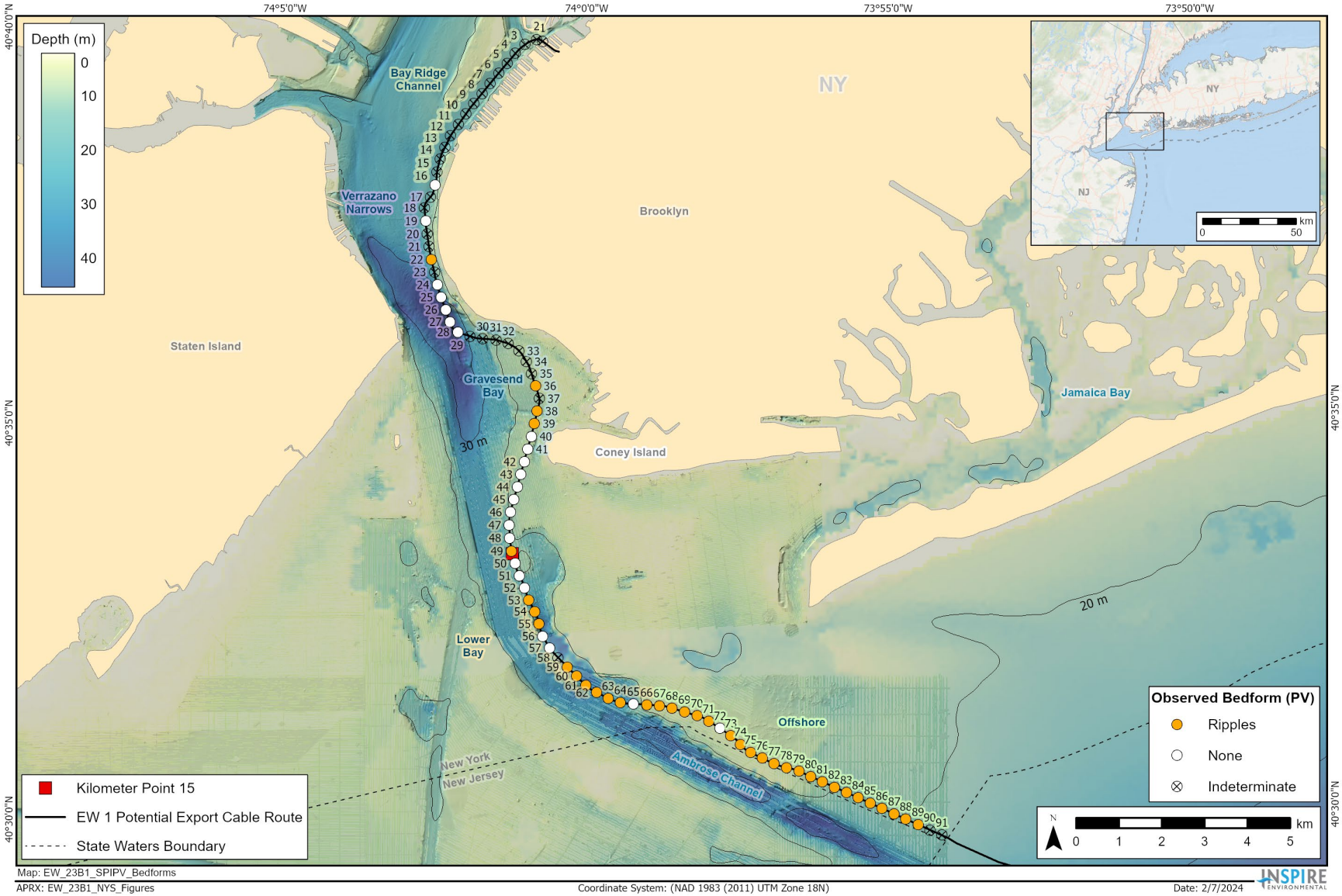


Figure 3-7. Presence of small-scale bedforms (sand ripples) along the NY state EW 1 planned export cable route

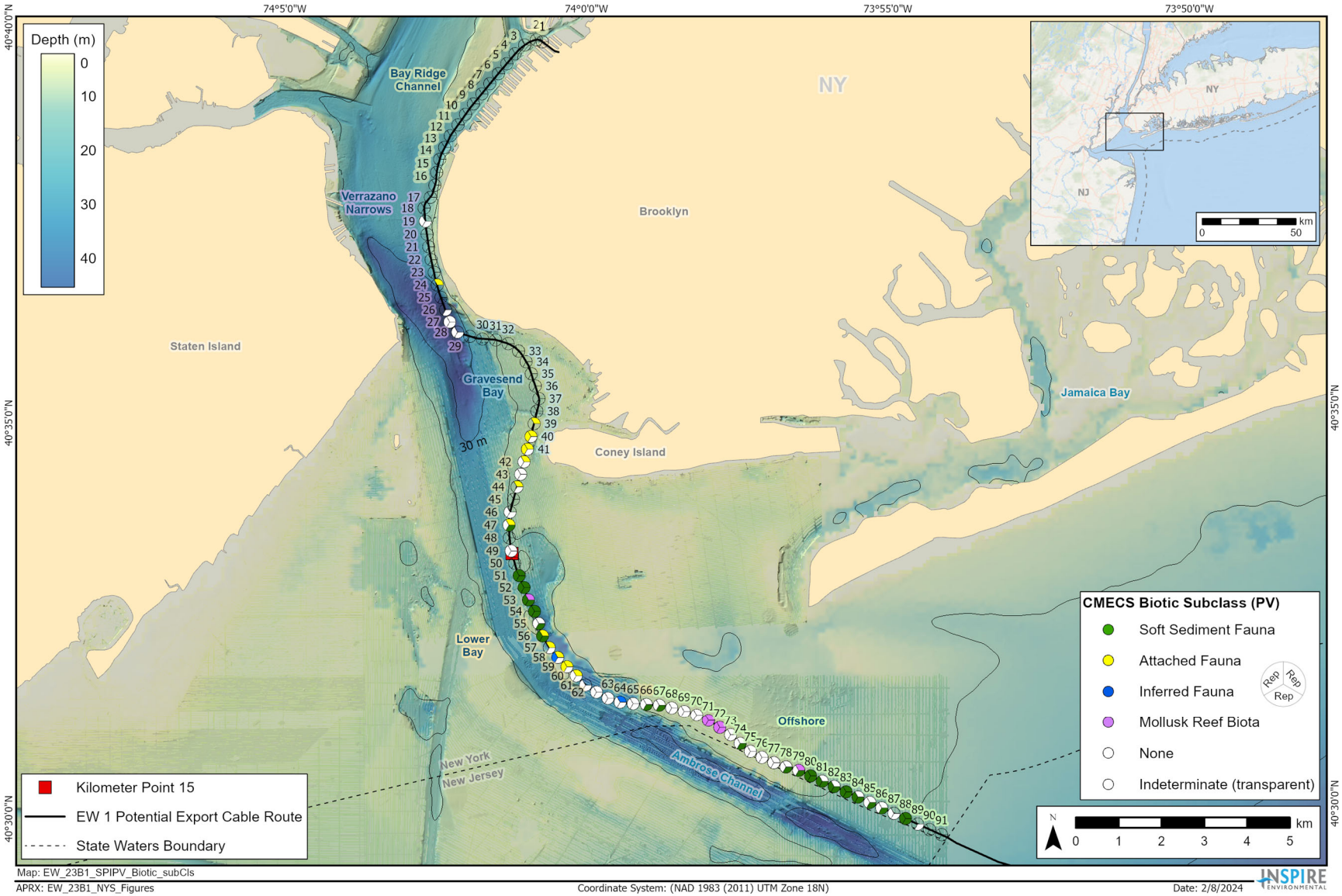


Figure 3-8. CMECS Biotic Subclass documented along the New York state EW 1 planned export cable route

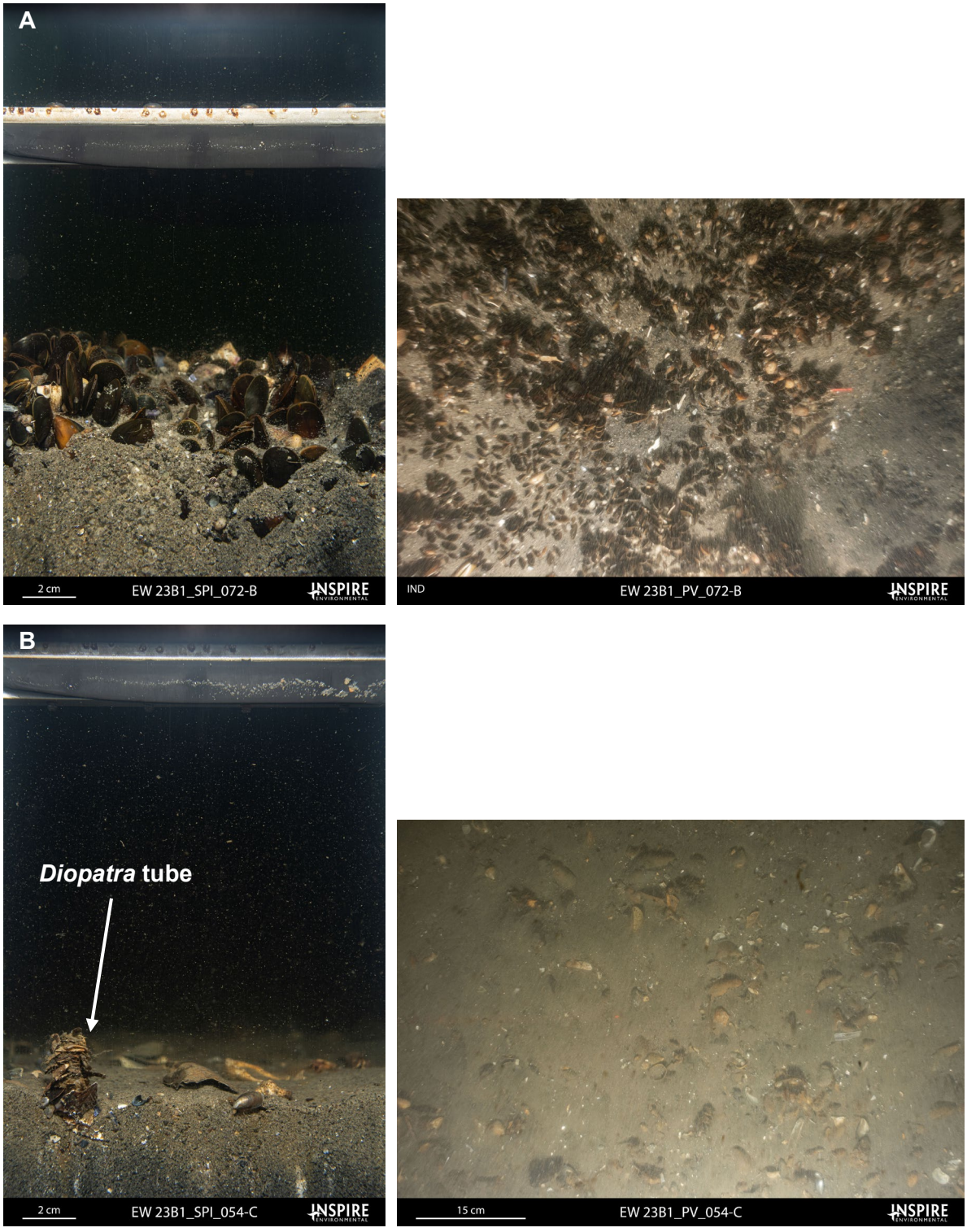


Figure 3-9. ***Representative profile and plan view images depicting CMECS Biotic Subclasses observed across the surveyed area including (A) Mollusk Reef Biota showing patches of blue mussel on the sediment surface; (B) Soft Sediment Fauna including a Diopatra tube at the sediment–water interface; and (C) Attached Fauna with sea urchins and sea star within a matrix of shell and soft sediments***

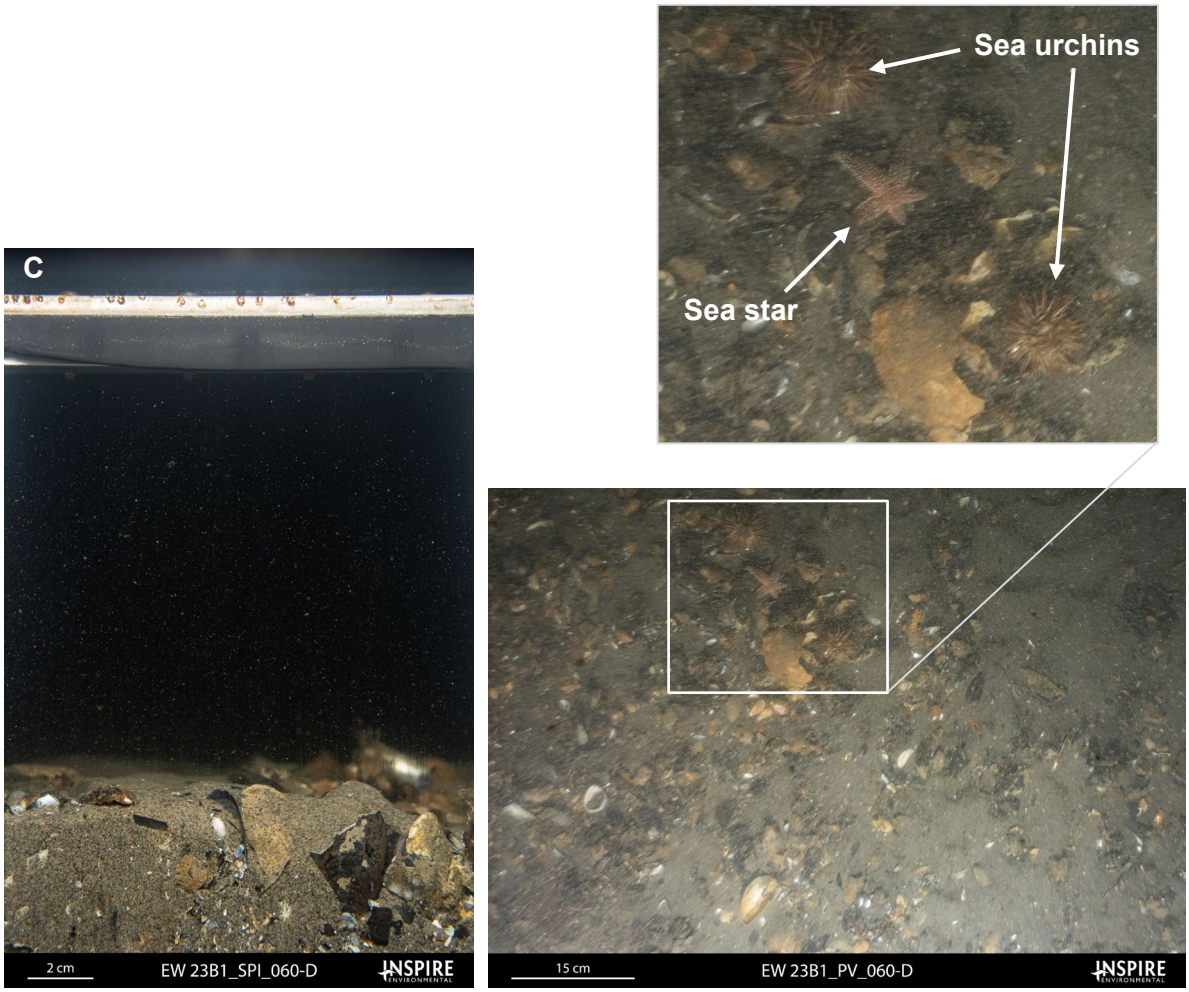


Figure 3-9. continued Representative profile and plan view images depicting CMECS Biotic Subclass observed across the surveyed area including (A) Mollusk Reef Biota showing patches of blue mussel on the sediment surface; (B) Soft Sediment Fauna including a Diopatra tube at the sediment-water interface; and (C) Attached Fauna with sea urchins and sea star within a matrix of shell and soft sediments

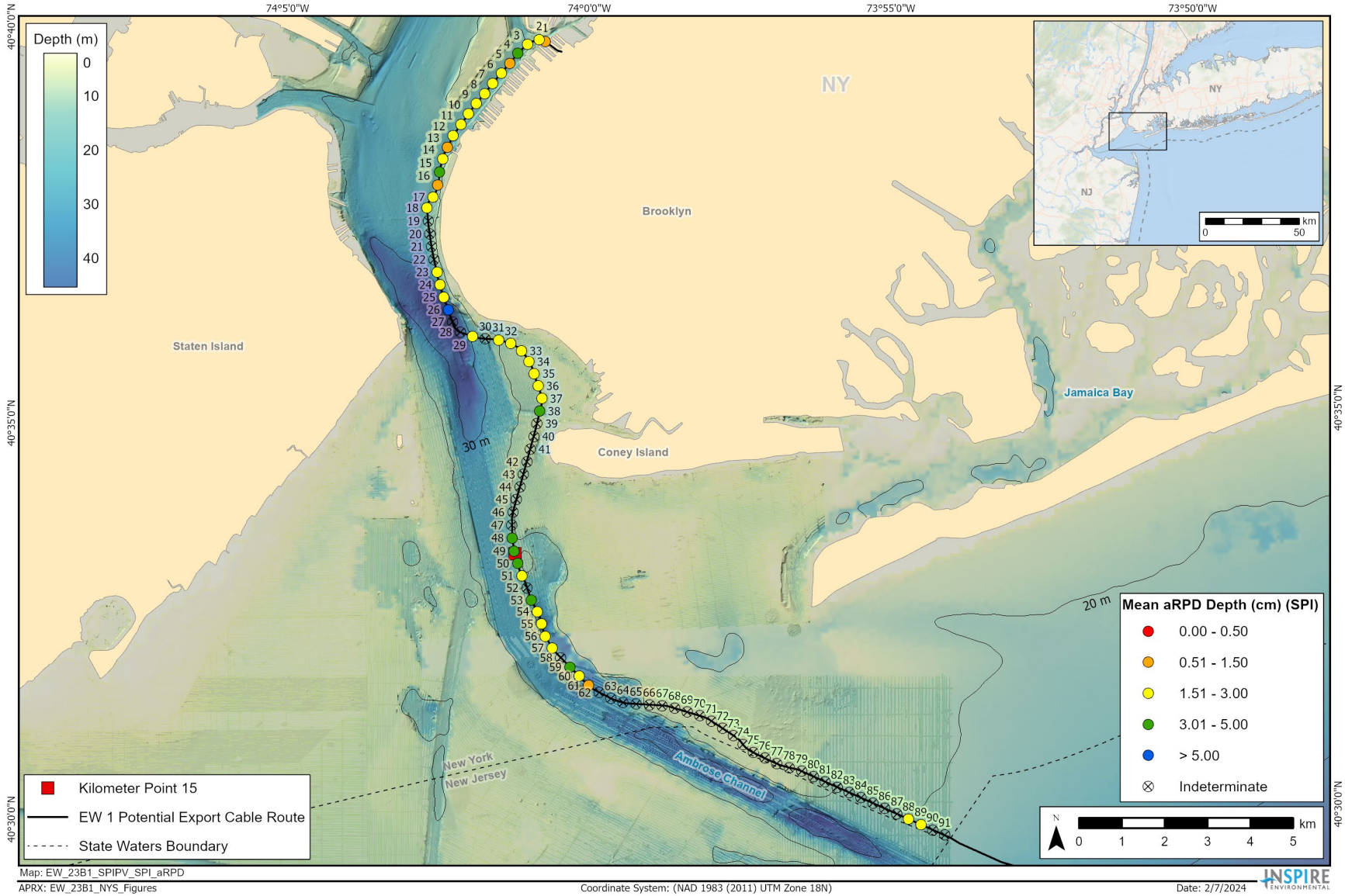


Figure 3-10. Mean station aRPD depth values (cm) along the New York state EW 1 planned export cable route

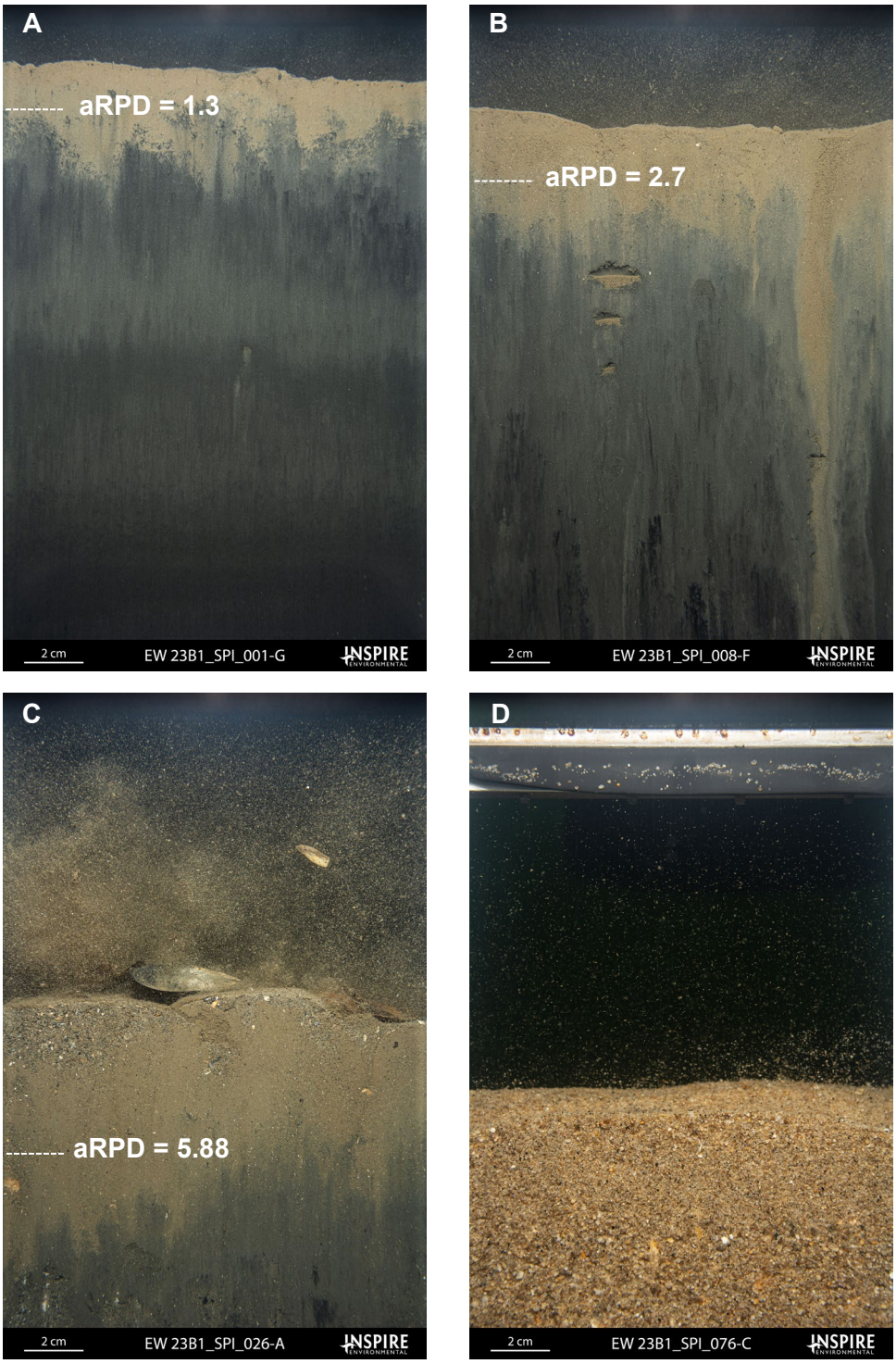


Figure 3-11. Profile imagery depicting the range in aRPD depths documented across the survey area including (A) Station 001 with a relatively shallow aRPD depth (1.3 cm); (B) Station 008 with an intermediate aRPD depth (2.7 cm); (C) Station 026 with a relatively deep aRPD depth (5.88 cm;) and (D) Station 076 with a sandy sediment column and indeterminate aRPD depth

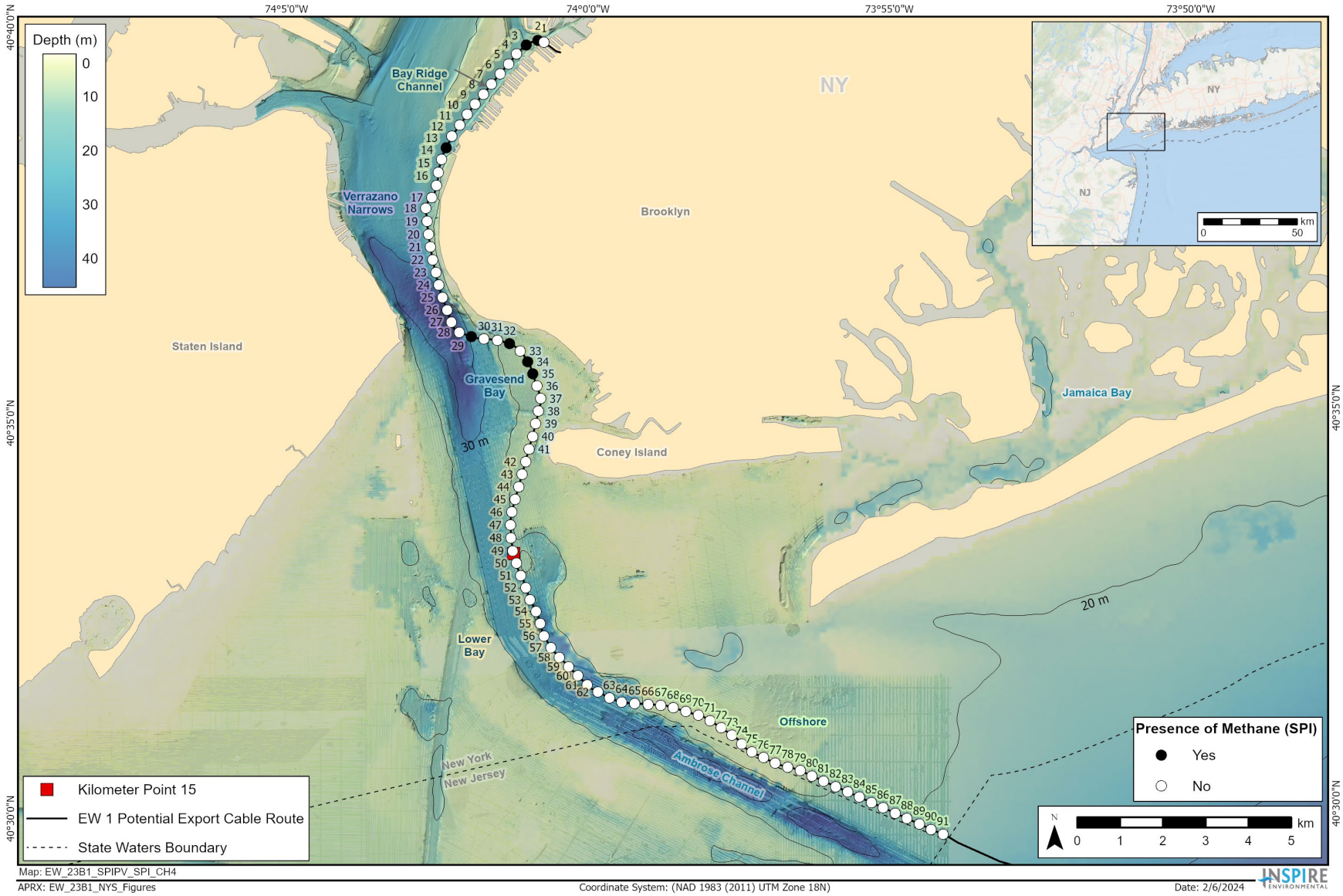


Figure 3-12. Presence of methane observed in sediment along the New York state EW 1 planned export cable route

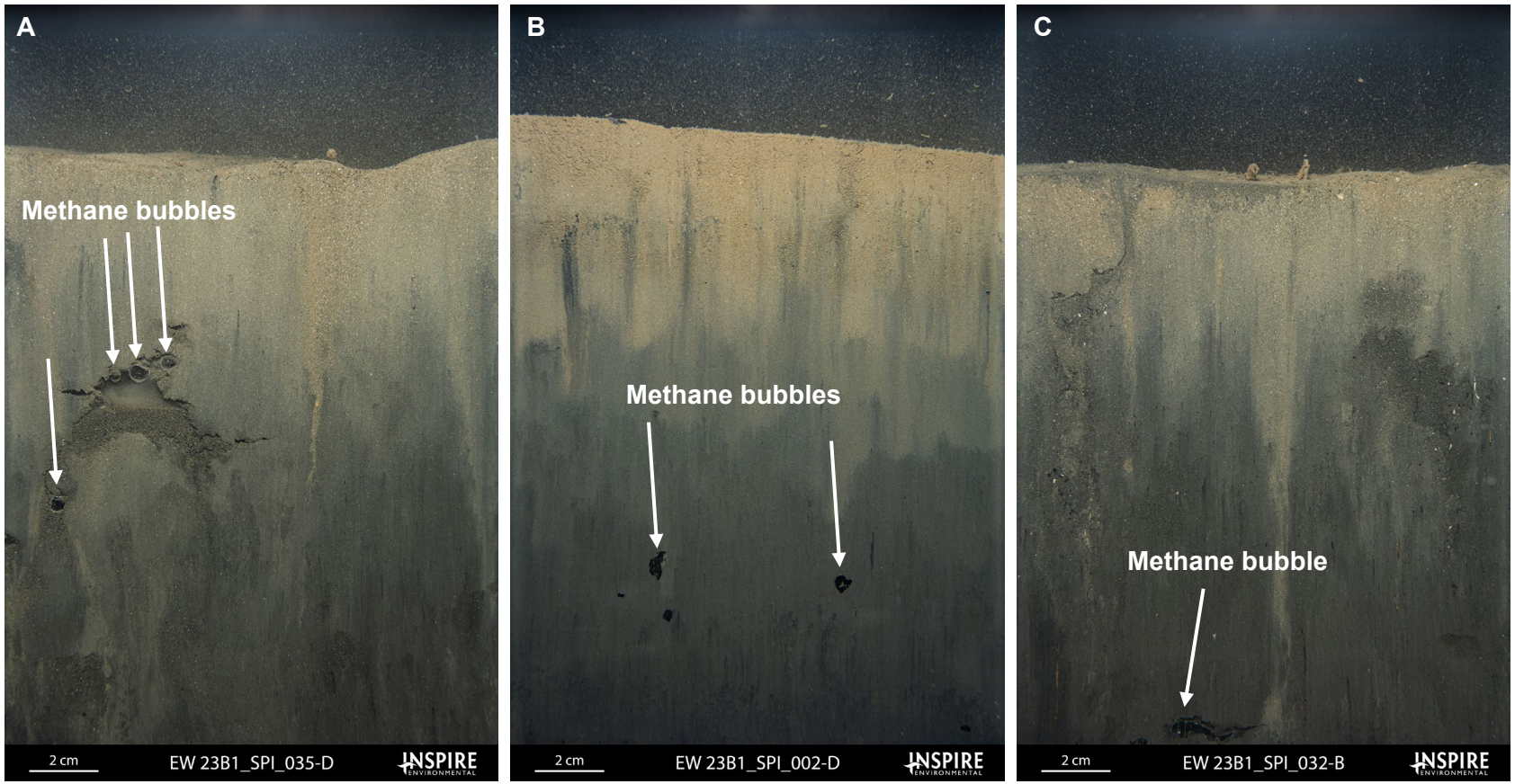


Figure 3-13. Several profile images illustrating the presence of methane bubbles in the sediment column

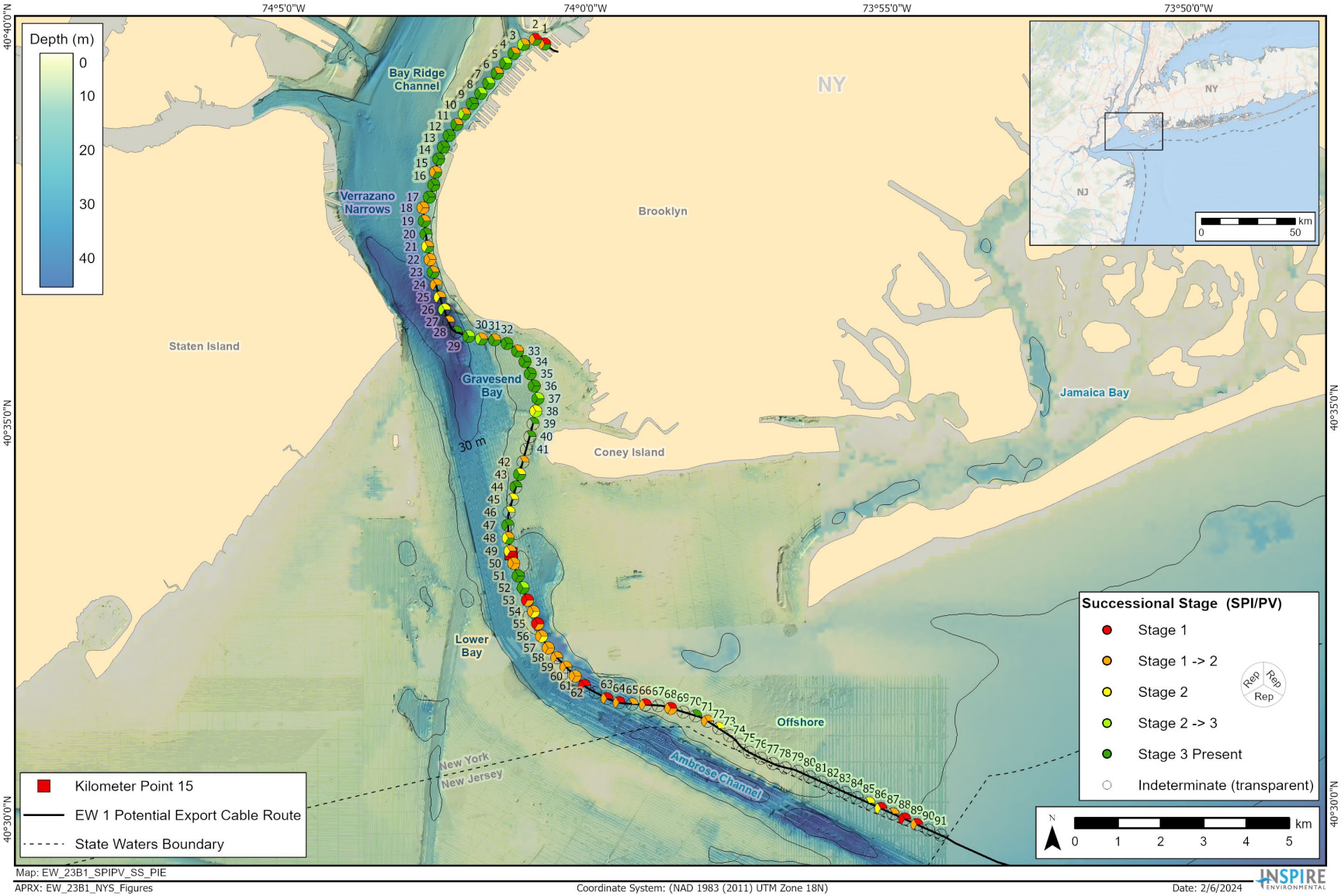


Figure 3-14. Infaunal successional stages across the survey area. Results shown provide a value for each of three replicate images at each sampling station

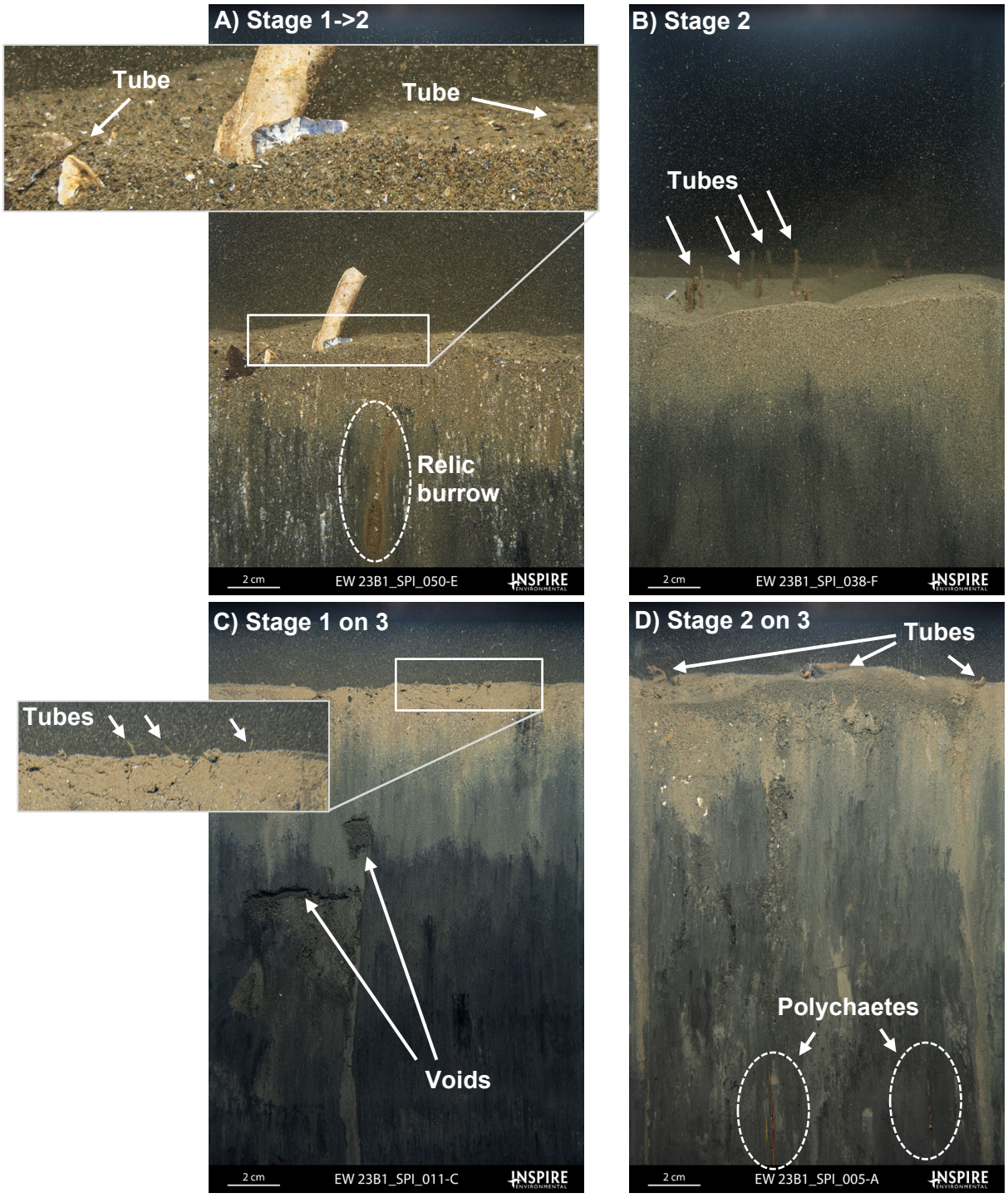


Figure 3-15. Representative profile images depicting observed infaunal successional stage across the surveyed area including (A) Stage 1->2 characterized by very small tubes at the sediment–water interface and a shallow relic burrow extending into the sediment column; (B) Stage 2 community indicated by tubes visible across the sediment surface but no indication of deep burrowing; (C) Stage 1 on 3 characterized by very small tubes at the sediment–water interface indicating Stage 1 taxa and feeding voids deeper in the sediment column indicating the presence of Stage 3 taxa; (D) Stage 2 on 3 as characterized by larger tubes and tube fragments at the sediment–water interface concurrent with deep burrowing polychaetes at depth

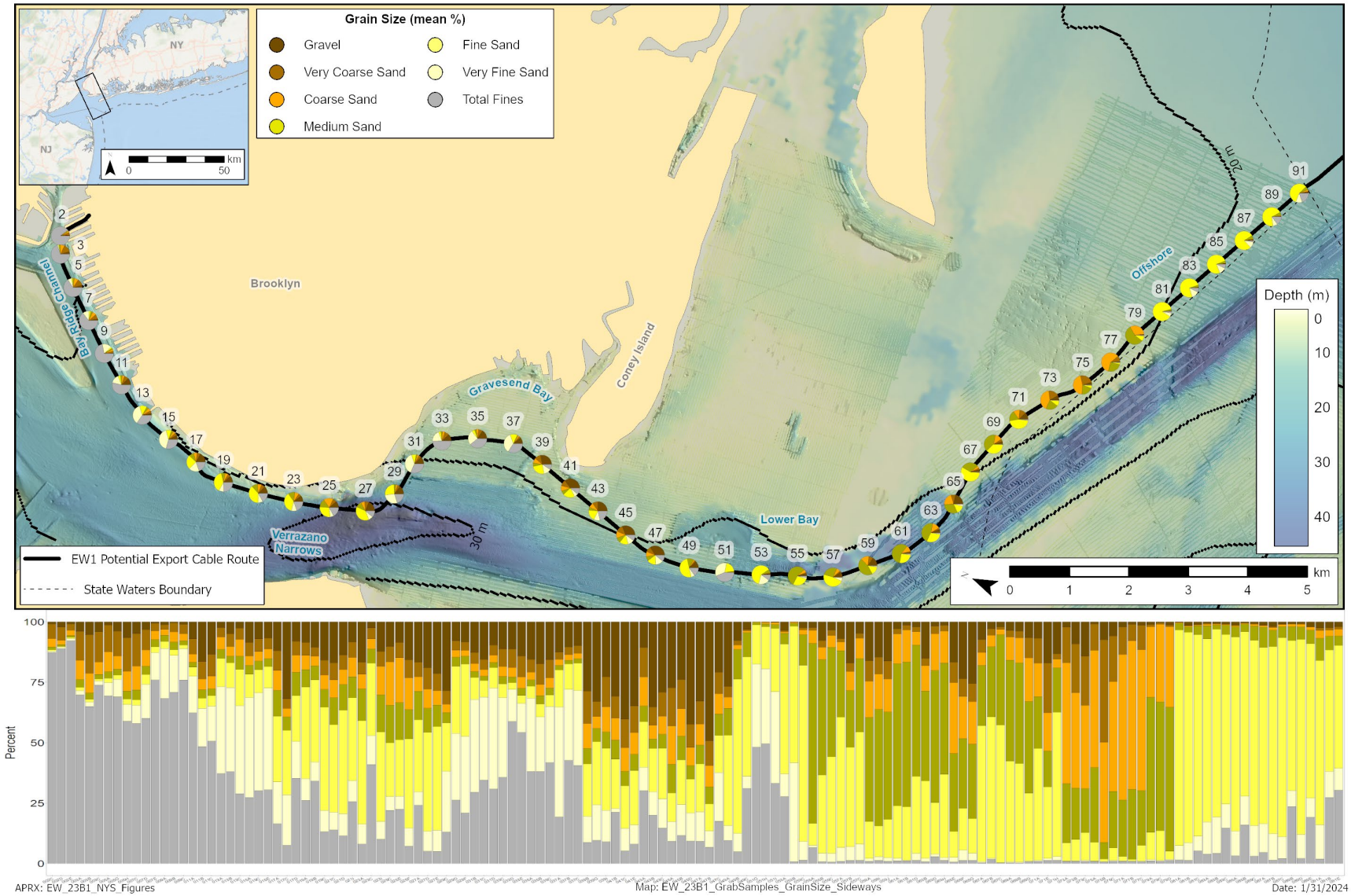


Figure 3-16. Sediment grain size distributions across all sample replicates illustrated as a stacked barplot and pie charts to portray spatial patterns across the EW 1 export cable route in New York state waters

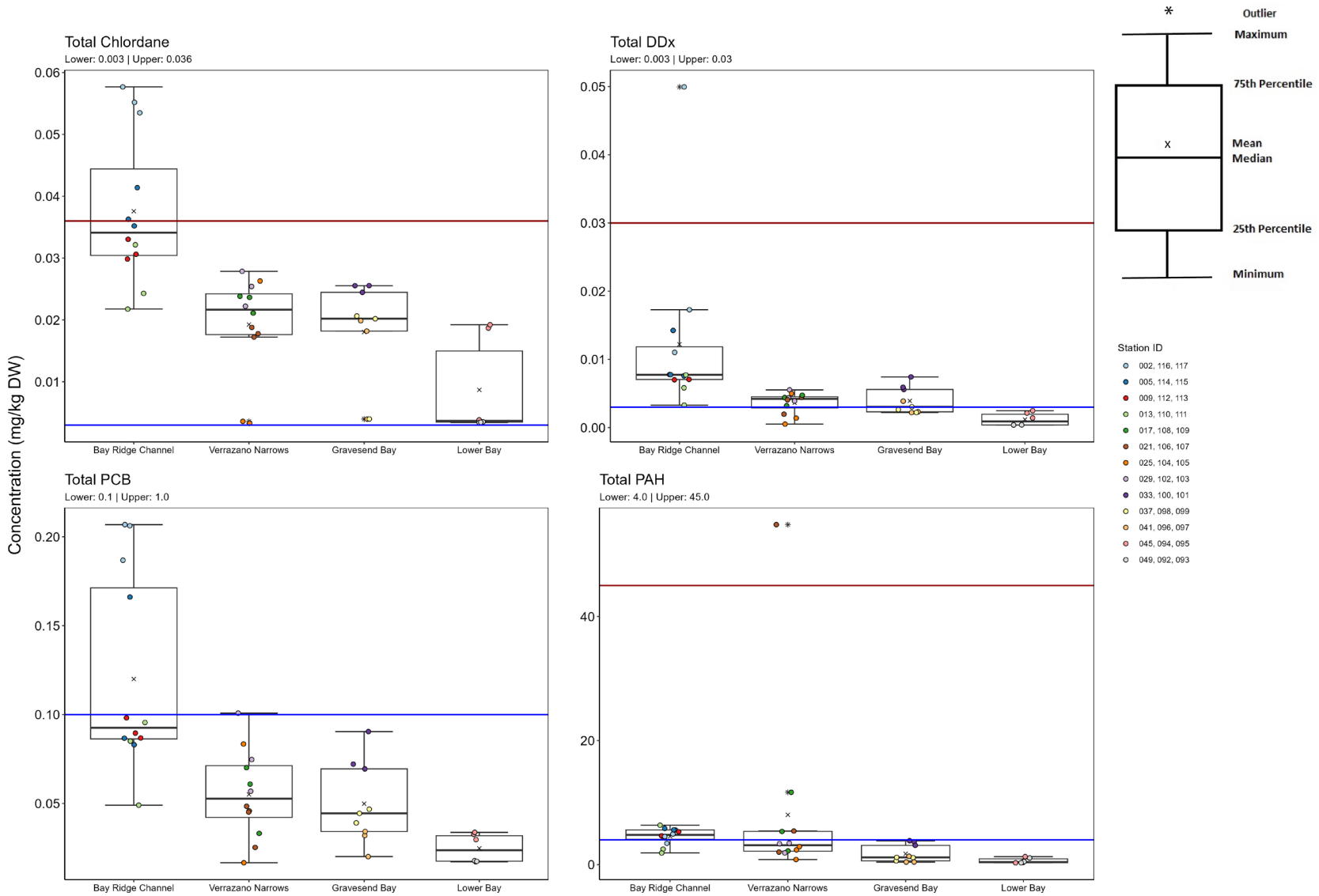


Figure 3-17. Concentrations of total chlordane, total DDx, total PCB, and total PAH measured in sediment grab samples grouped by geographic area along the EW 1 planned export cable route (asterisk = outlier, red line = upper threshold for Class B sediments and blue line = lower threshold for Class B sediments, thresholds are not shown if data are well below limits)

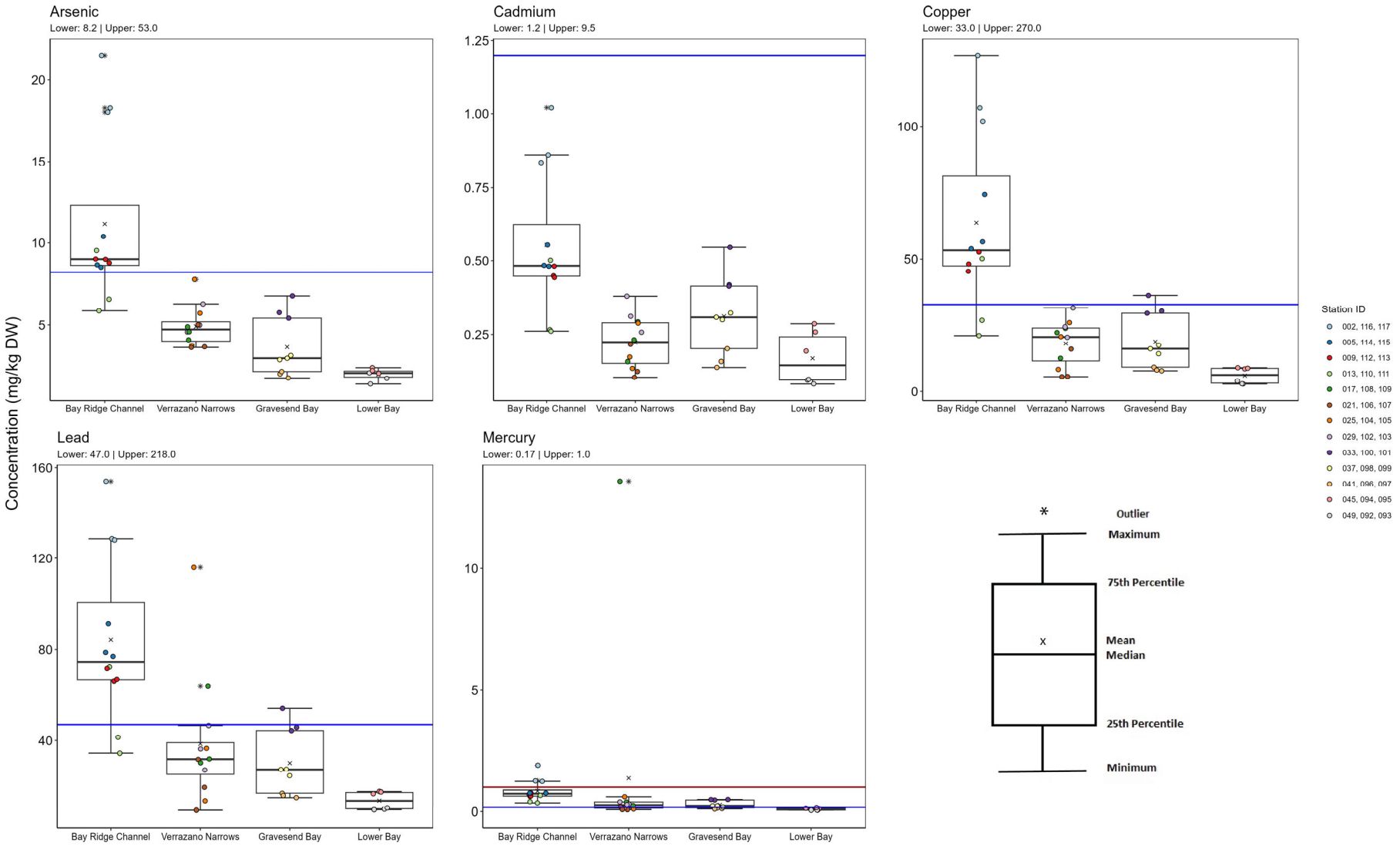


Figure 3-18. Concentrations of five metals analyzed in sediment grab samples grouped by geographic area along the EW 1 planned export cable route (asterisk = outlier, red line = upper threshold for Class B sediments and blue line = lower threshold for Class B sediments, thresholds are not shown if data are well below limits)

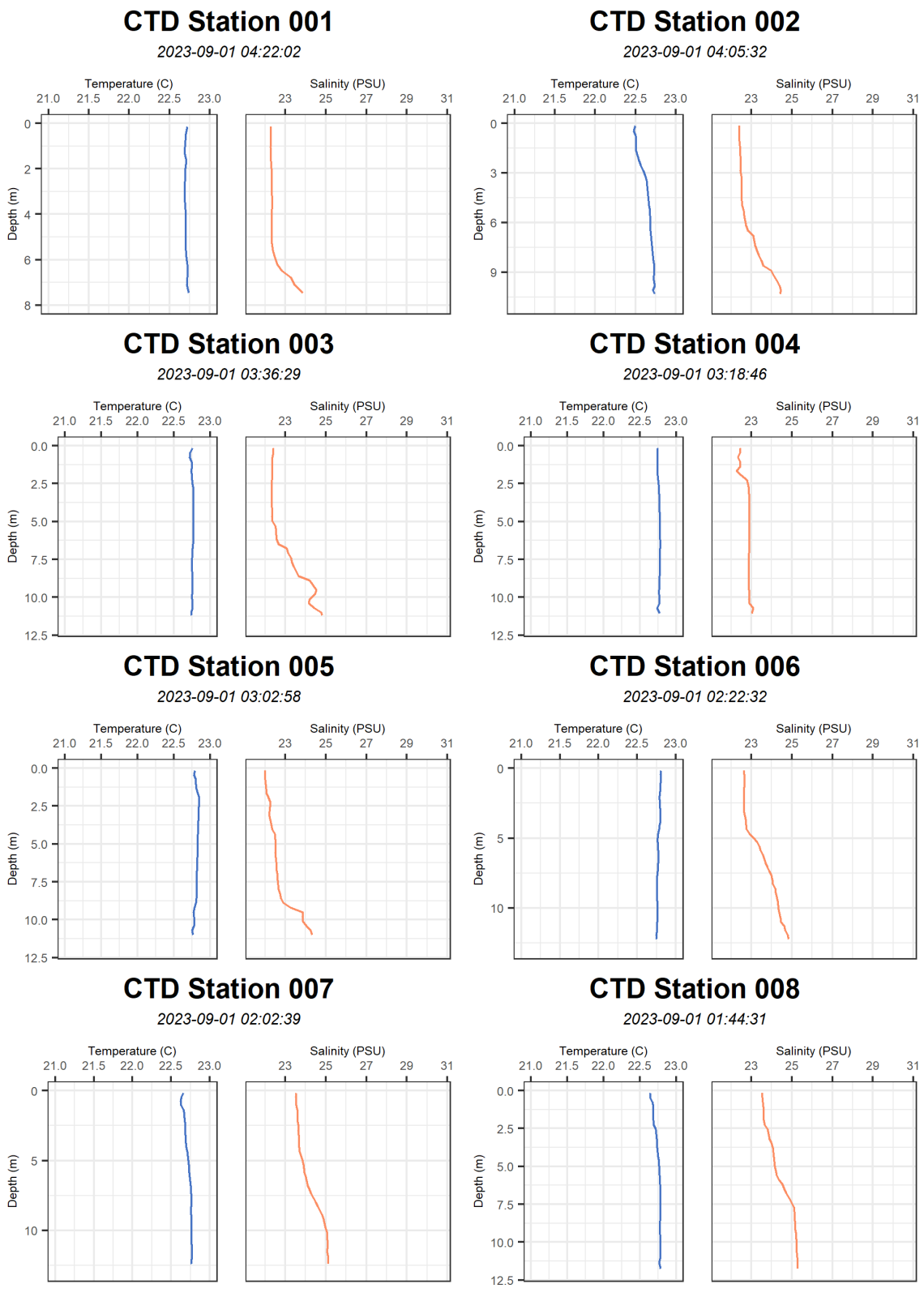


Figure 3-19a. Water column profiles of temperature and salinity at Bay Ridge Channel Stations 001-008 sampled along the EW 1 export cable route in New York state waters

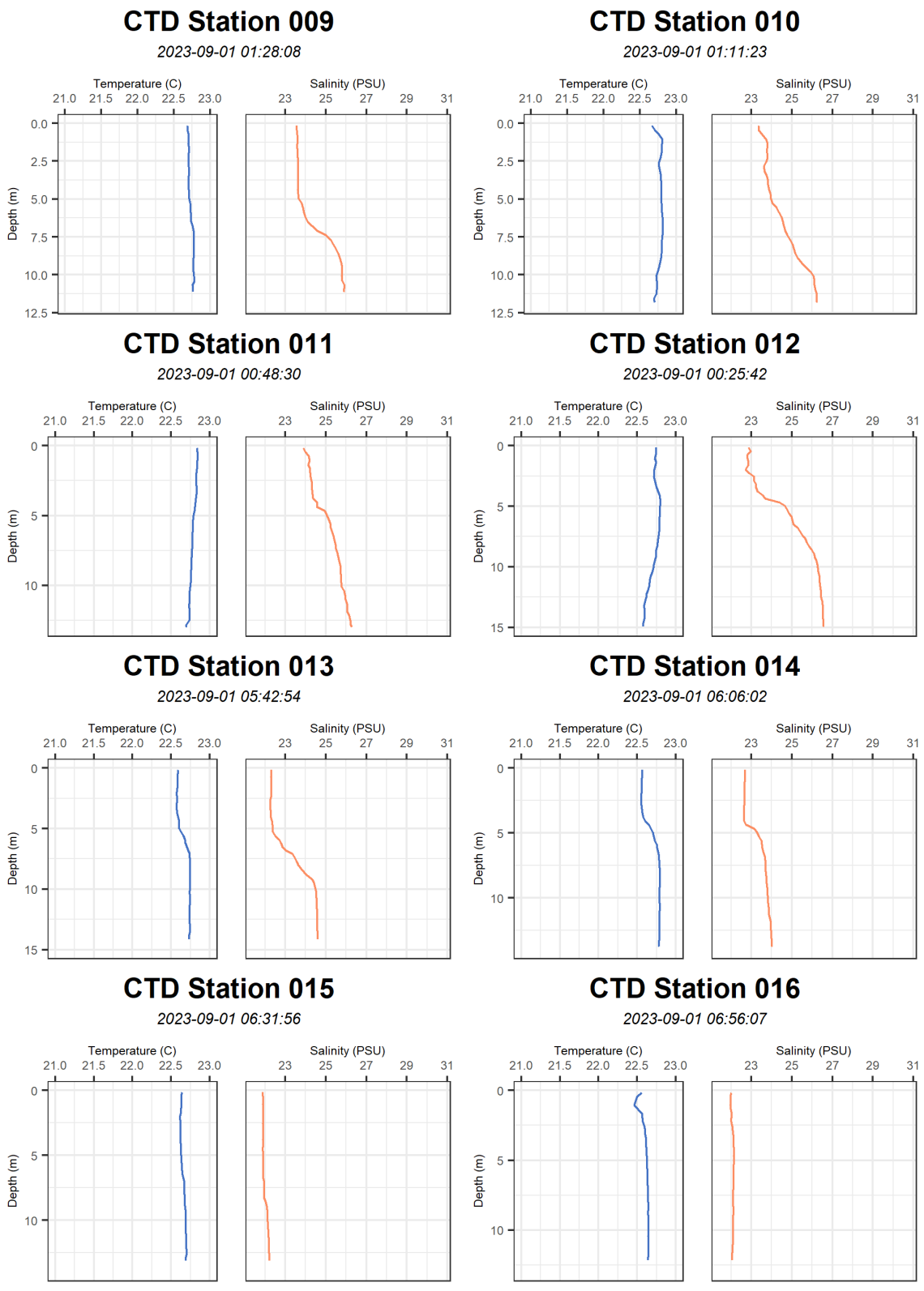


Figure 3-19b. Water column profiles of temperature and salinity at Bay Ridge Channel Stations 009-016 sampled along the EW 1 export cable route in New York state waters

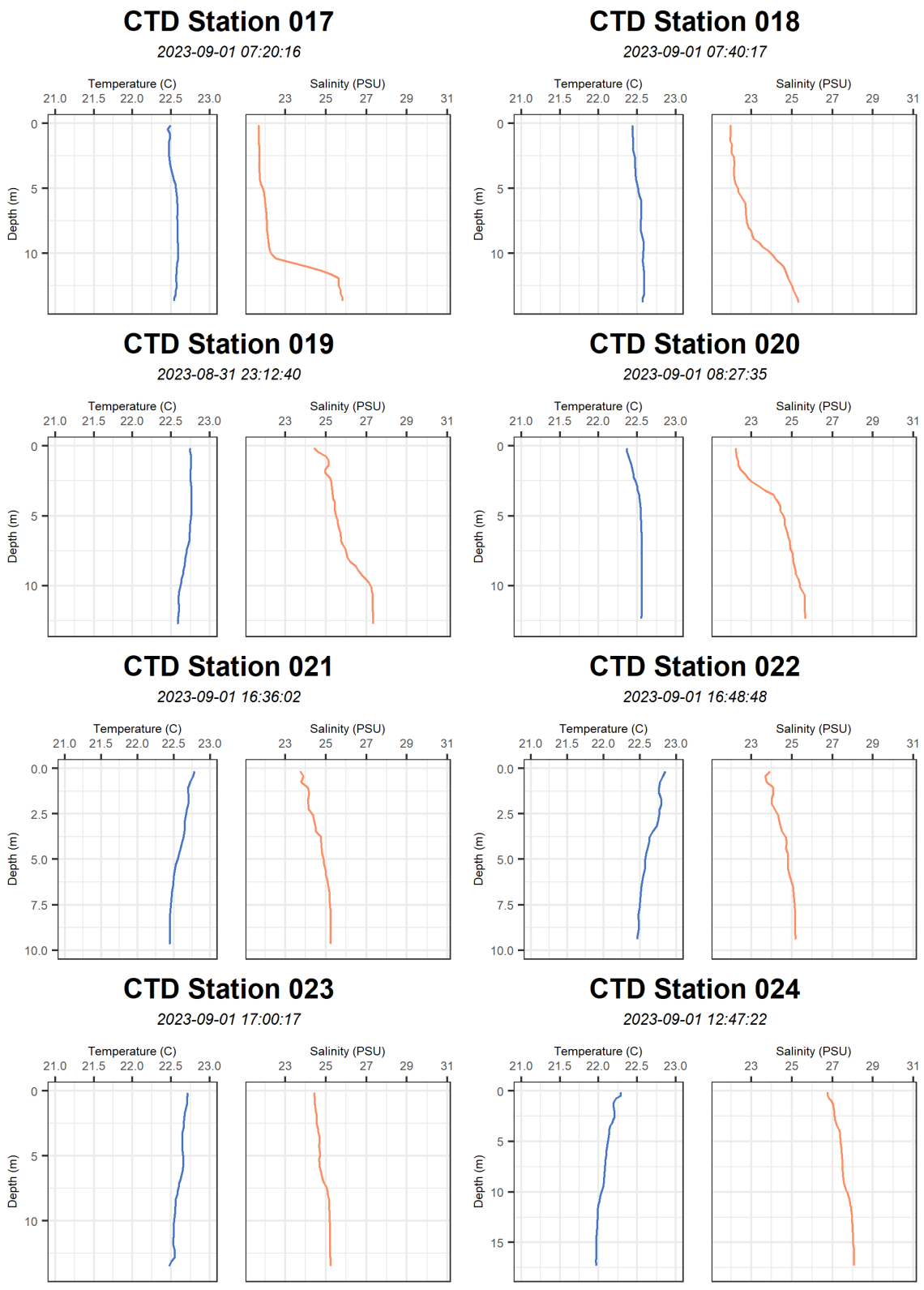


Figure 3-19c. Water column profiles of temperature and salinity at Verrazano Narrows Stations 017-024 sampled along the EW 1 export cable route in New York state waters

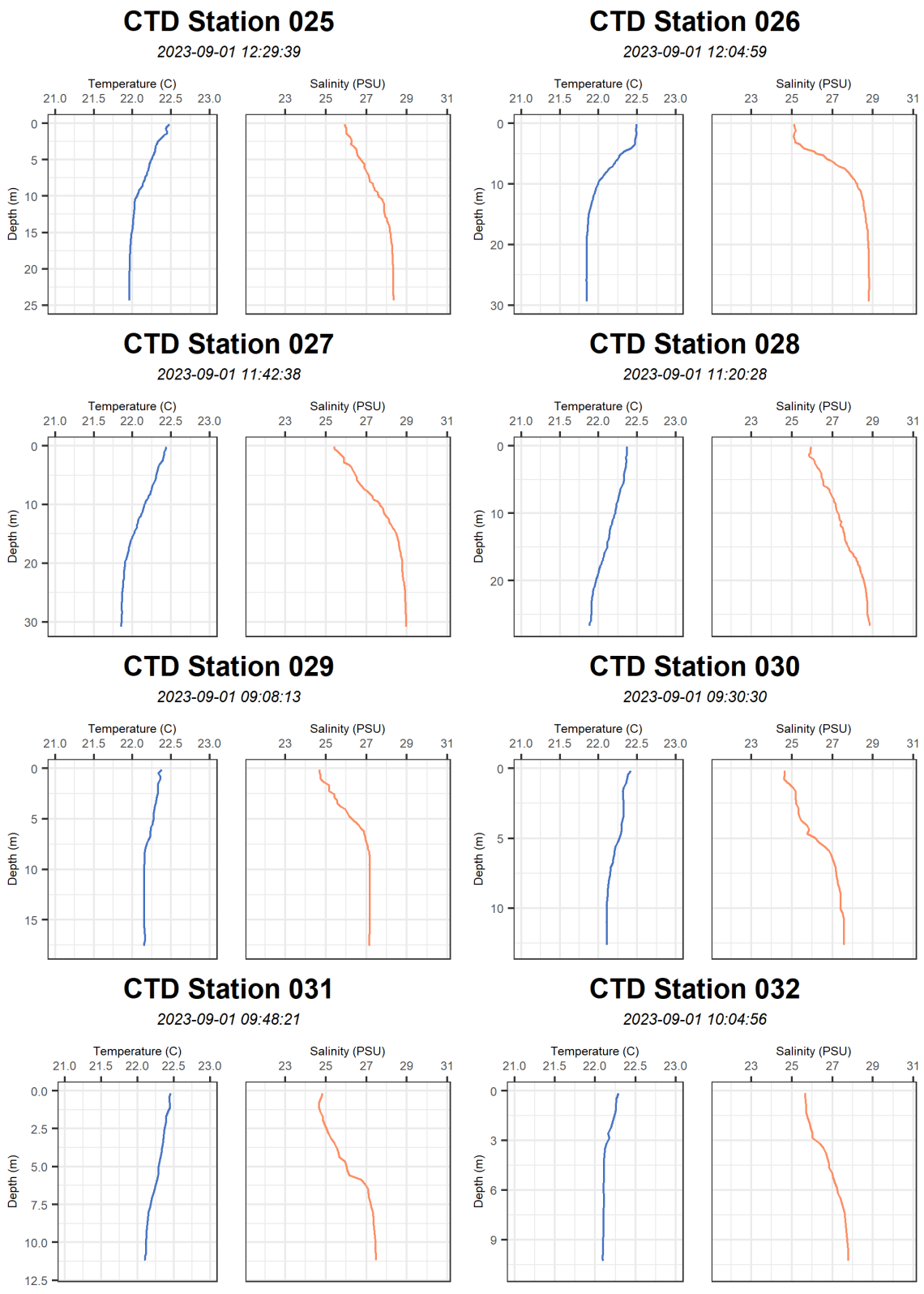


Figure 3-19d. Water column profiles of temperature and salinity at Verrazano Narrows Stations 025-029 and Gravesend Bay Stations 030-032 sampled along the EW 1 export cable route in New York state waters

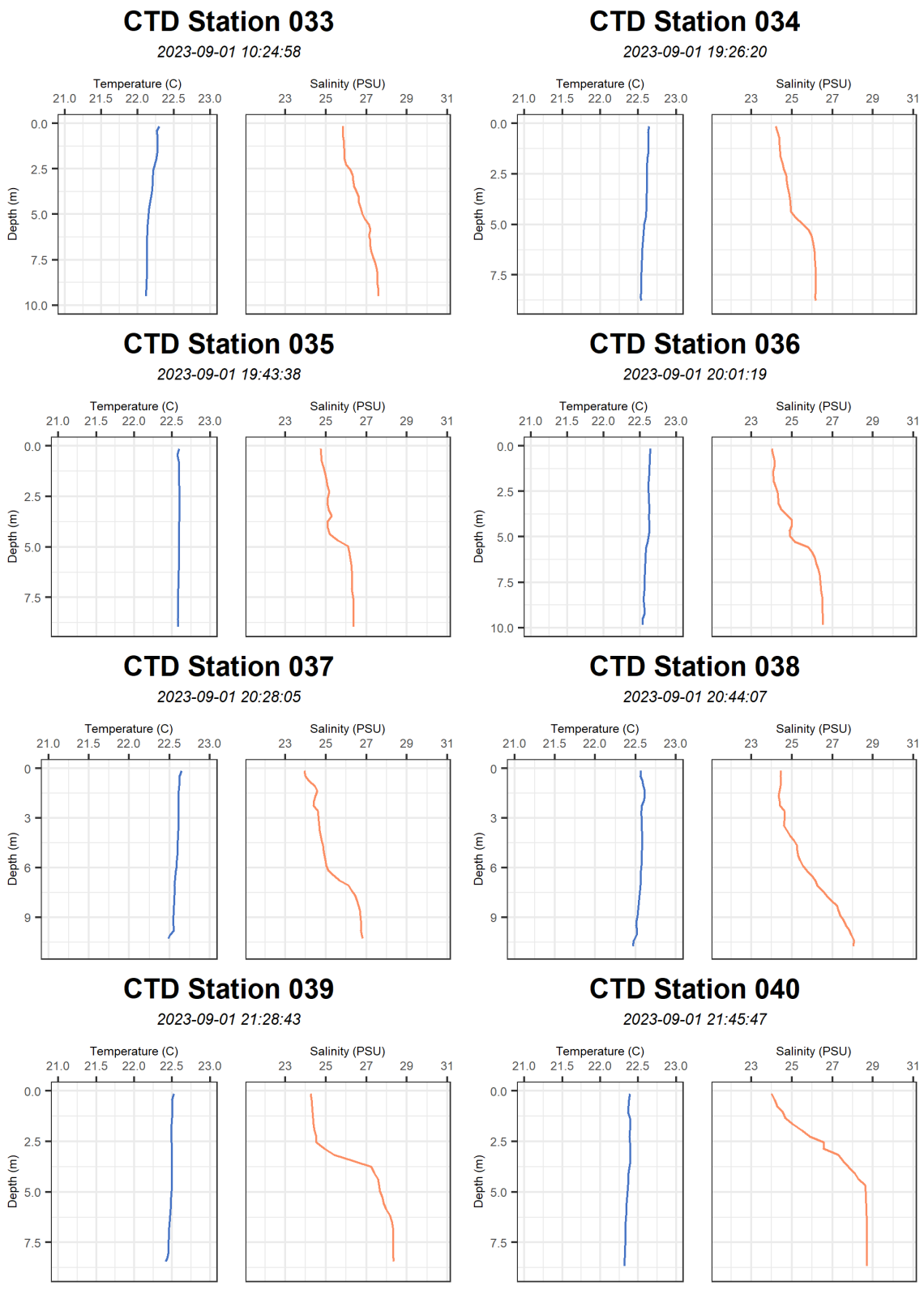


Figure 3-19e. Water column profiles of temperature and salinity at Gravesend Bay Stations 033-040 sampled along the EW 1 export cable route in New York state waters

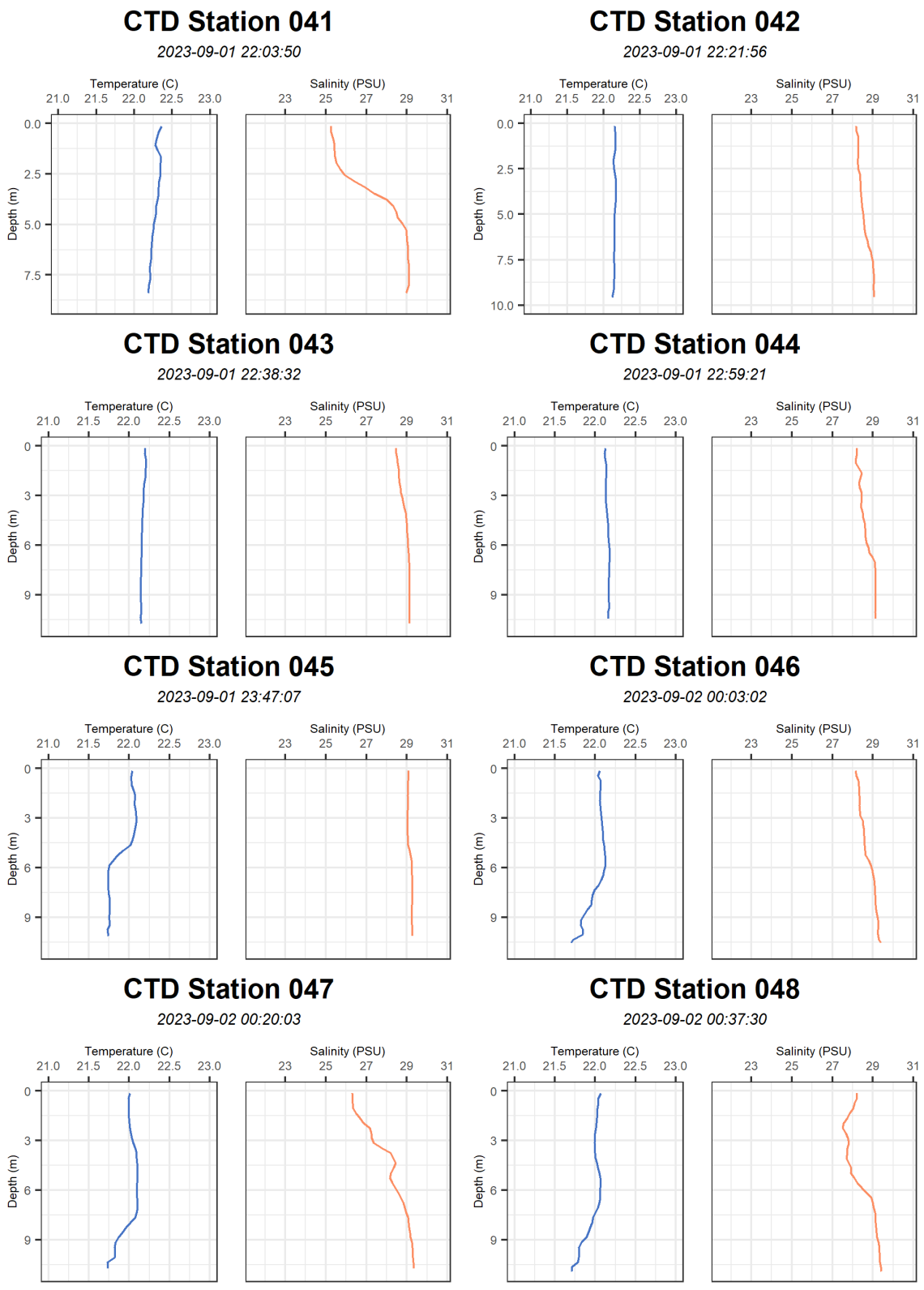


Figure 3-19f. Water column profiles of temperature and salinity at Gravesend Bay Station 041 and Lower Bay Stations 042-048 sampled along the EW 1 export cable route in New York state waters

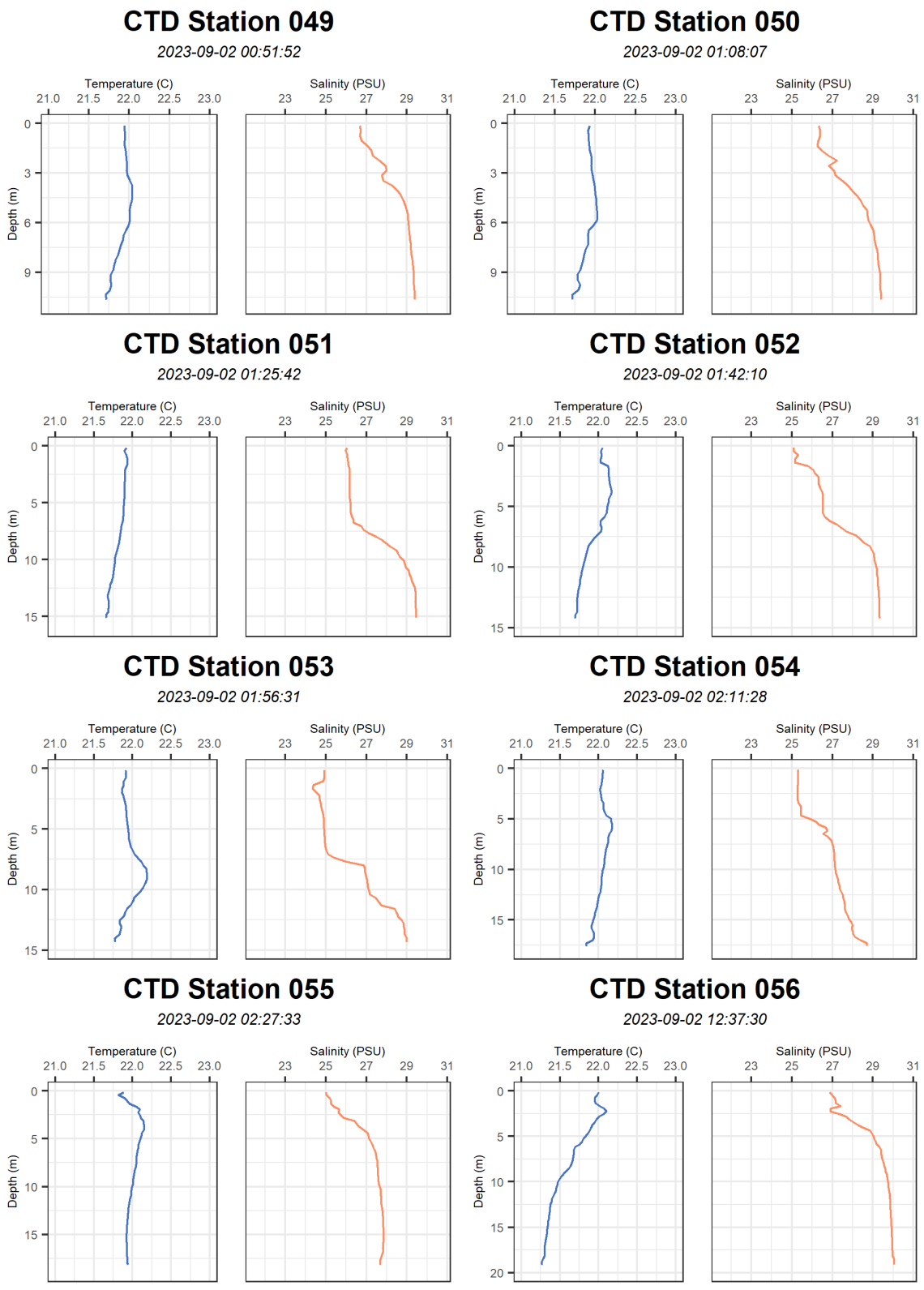


Figure 3-19g. Water column profiles of temperature and salinity at Lower Bay Stations 049-056 sampled along the EW 1 export cable route in New York state waters

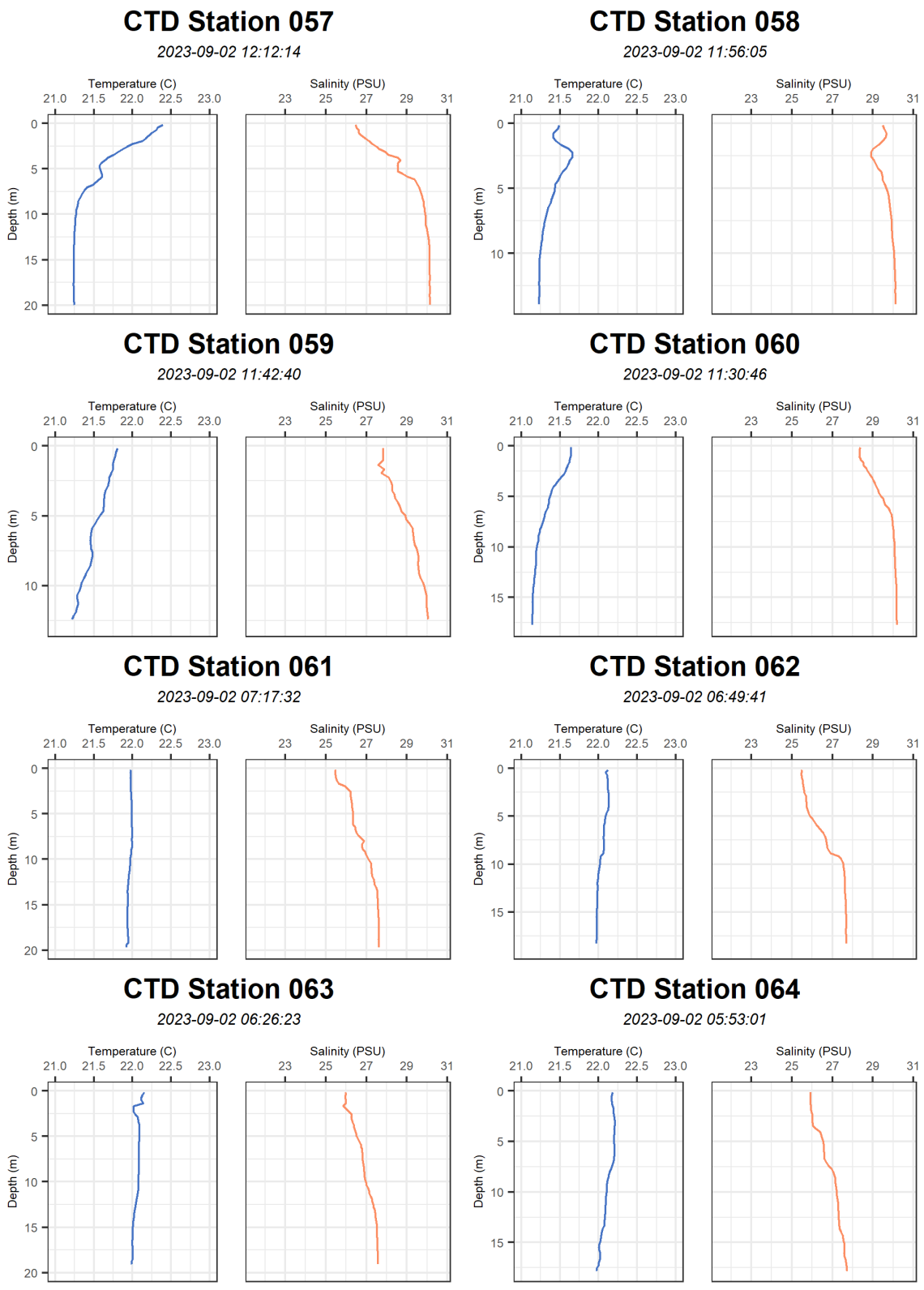


Figure 3-19h. Water column profiles of temperature and salinity at Lower Bay Stations 057-064 sampled along the EW 1 export cable route in New York state waters

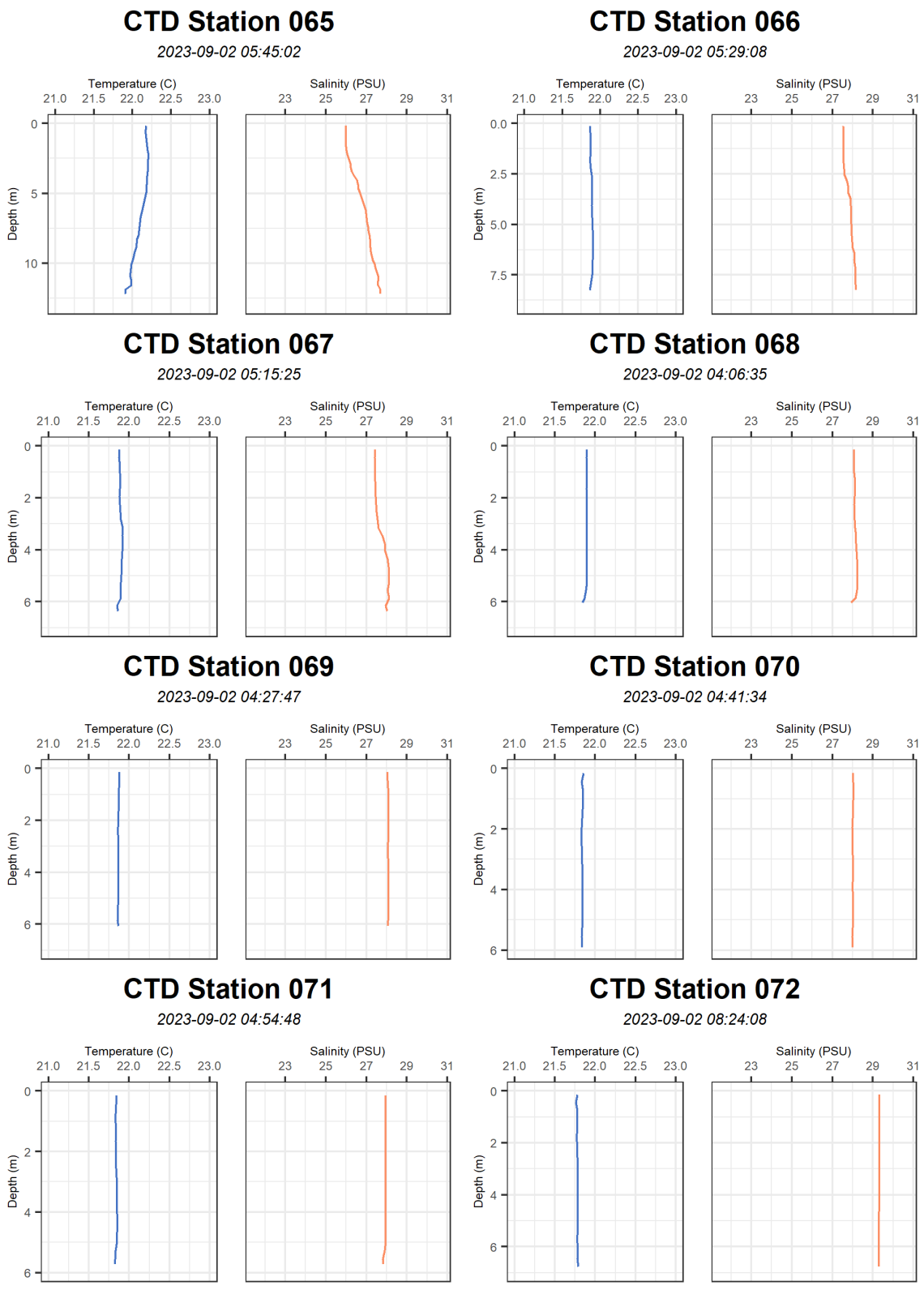


Figure 3-19i. Water column profiles of temperature and salinity at Lower Bay Stations 065-066 and Offshore Stations 067-072 sampled along the EW 1 export cable route in New York state waters

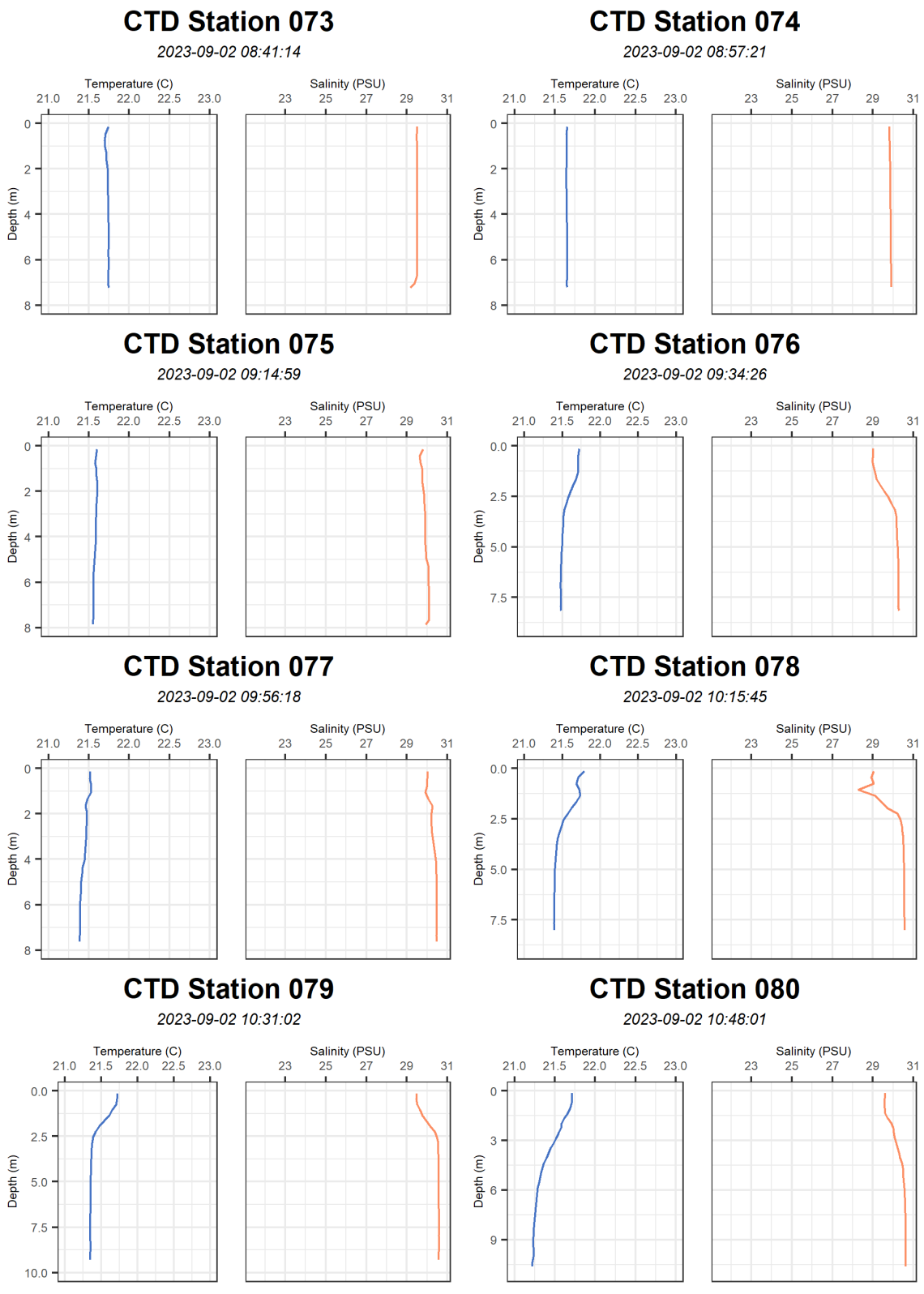


Figure 3-19j. Water column profiles of temperature and salinity at Offshore Stations 073-080 sampled along the EW 1 export cable route in New York state waters

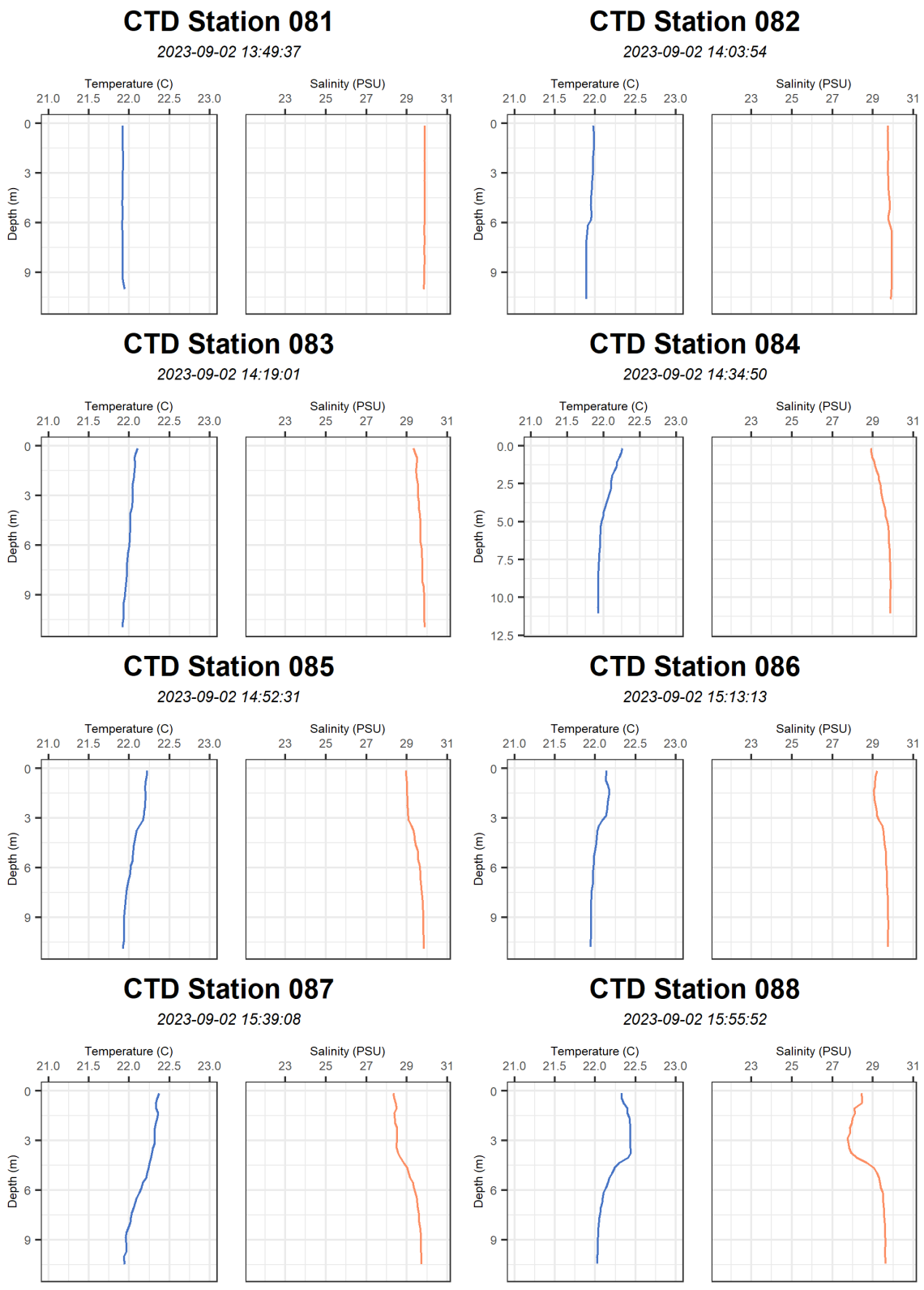


Figure 3-19k. Water column profiles of temperature and salinity at Offshore Stations 081-088 sampled along the EW 1 export cable route in New York state waters

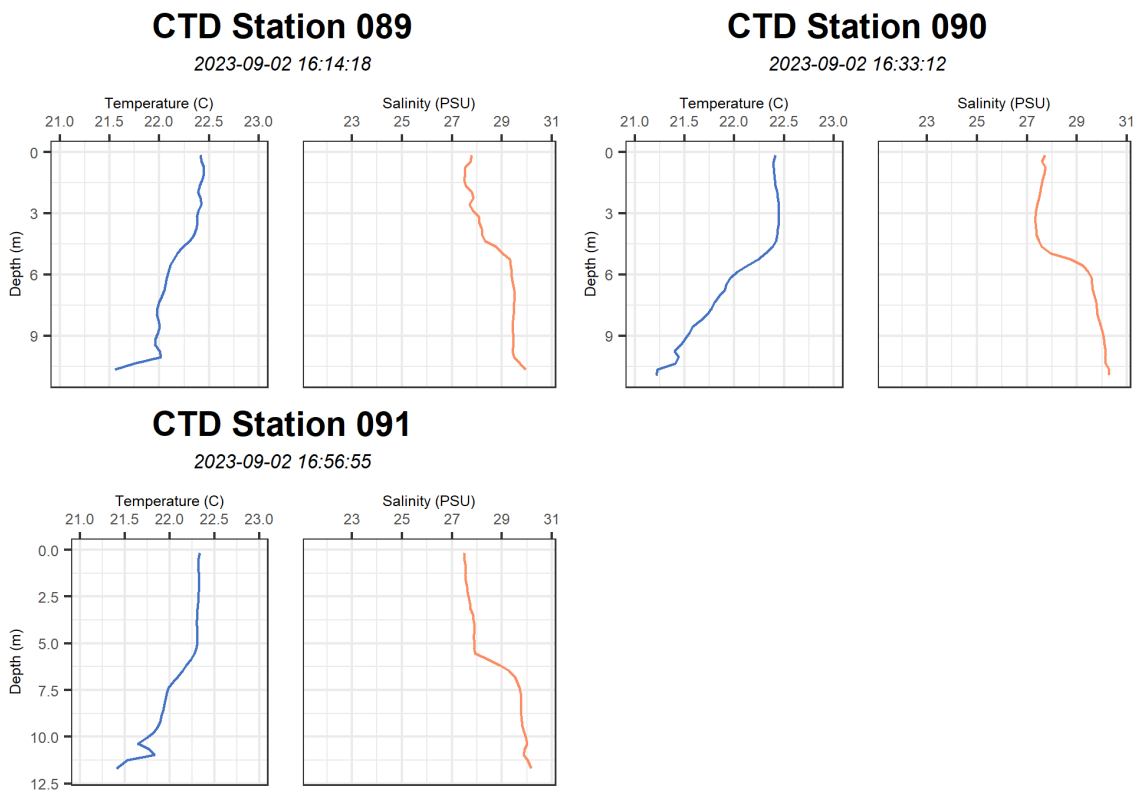


Figure 3-19l. Water column profiles of temperature and salinity at Offshore Stations 089-091 sampled along the EW 1 export cable route in New York state water

Empire Wind
Pre-Construction Benthic Monitoring Survey Report
New York State Waters

APPENDICES

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February 2024

LIST OF APPENDICES

Appendix A – SPI/PV, Sediment Grab, and Water Column Profile Station Locations

Appendix B – SPI/PV, Sediment Grab, and Water Column Profile Field Logs

Appendix C – Sediment Profile Image Analysis Results

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Appendix F – Sediment Grain Size and Chemistry Results

Appendix G – Water Column Conductivity and Temperature Depth Profile Results

Appendix A – SPI/PV, Sediment Grab, and Water Column Profile Station Locations

Notes:
GS=Grain Size
BCA=Benthic Community Analysis
MS/MSD=Matrix Spike/Matrix Spike Duplicate
N/A=Not Applicable

SampleType	StationID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth_m	Comments
SPI/PV	001	A	8/31/2023	22:05:07	583491.6	4501761.46	40.6625004	-74.0122809	9.1	
SPI/PV	001	B	8/31/2023	22:06:34	583492.08	4501758.92	40.6624775	-74.0122756	9.1	
SPI/PV	001	C	8/31/2023	22:08:02	583495.23	4501756.96	40.6624595	-74.0122386	9.1	
SPI/PV	001	D	8/31/2023	22:09:59	583490.07	4501757.02	40.6624606	-74.0122996	9.1	
SPI/PV	019	B	8/31/2023	22:46:12	580758.28	4497566.06	40.6249822	-74.0451509	13.4	
SPI/PV	019	C	8/31/2023	22:47:58	580755.04	4497564.53	40.6249688	-74.0451894	13.4	
SPI/PV	019	D	8/31/2023	22:48:59	580758.41	4497571.46	40.6250309	-74.0451487	13.4	
SPI/PV	012	B	9/1/2023	0:16:51	581340.64	4499563.69	40.6429188	-74.0380080	14.9	
SPI/PV	012	C	9/1/2023	0:18:13	581346.22	4499562.51	40.6429077	-74.0379422	14.9	
SPI/PV	012	D	9/1/2023	0:19:32	581342.51	4499559.88	40.6428843	-74.0379864	14.9	
SPI/PV	011	A	9/1/2023	0:38:53	581522.5	4499817.81	40.6451899	-74.0358246	13.1	
SPI/PV	011	B	9/1/2023	0:40:16	581520.33	4499815.24	40.6451670	-74.0358506	13.1	
SPI/PV	011	C	9/1/2023	0:41:28	581518.72	4499812.9	40.6451460	-74.0358699	13.1	
SPI/PV	010	B	9/1/2023	1:05:31	581696.3	4500064.58	40.6473955	-74.0337372	11.9	
SPI/PV	010	C	9/1/2023	1:06:43	581695.72	4500060.23	40.6473564	-74.0337447	11.9	
SPI/PV	010	D	9/1/2023	1:07:56	581693.53	4500057.49	40.6473319	-74.0337709	11.9	
SPI/PV	009	A	9/1/2023	1:20:46	581881.45	4500308.14	40.6495710	-74.0315159	11.3	
SPI/PV	009	B	9/1/2023	1:21:51	581878.74	4500306.18	40.6495536	-74.0315483	11.3	
SPI/PV	009	C	9/1/2023	1:23:01	581877.25	4500303	40.6495251	-74.0315663	11.3	
SPI/PV	005	A	9/1/2023	2:54:48	582661.6	4501247.72	40.6579565	-74.0221661	11.1	
SPI/PV	005	B	9/1/2023	2:55:54	582659.23	4501245.87	40.6579401	-74.0221944	11.1	
SPI/PV	005	C	9/1/2023	2:57:12	582657.63	4501242.92	40.6579137	-74.0222137	11.1	
SPI/PV	002	D	9/1/2023	4:02:32	583353.64	4501804.13	40.6628987	-74.0139071	11.0	
SPI/PV	001	F	9/1/2023	4:16:37	583486.8	4501757.78	40.6624678	-74.0123382	6.4	
SPI/PV	001	G	9/1/2023	4:17:41	583487	4501755	40.6624427	-74.0123362	6.4	
SPI/PV	006	F	9/1/2023	4:42:41	582465.12	4501014.31	40.6558737	-74.0245207	12.2	
SPI/PV	006	G	9/1/2023	4:44:00	582464.34	4501011.55	40.6558489	-74.0245303	12.2	
SPI/PV	006	H	9/1/2023	4:45:43	582464.01	4501008.26	40.6558193	-74.0245346	12.2	
SPI/PV	007	E	9/1/2023	4:53:55	582263.84	4500781.61	40.6537978	-74.0269317	12.2	
SPI/PV	007	F	9/1/2023	4:55:15	582264.78	4500779.18	40.6537758	-74.0269209	12.2	
SPI/PV	007	G	9/1/2023	4:56:27	582260.8	4500777.04	40.6537569	-74.0269683	12.2	
SPI/PV	008	E	9/1/2023	5:04:11	582078.72	4500541.89	40.6516569	-74.0291525	11.6	
SPI/PV	008	F	9/1/2023	5:05:26	582076.33	4500539.65	40.6516370	-74.0291810	11.6	
SPI/PV	008	G	9/1/2023	5:06:32	582074.94	4500536.77	40.6516112	-74.0291978	11.6	
SPI/PV	008	H	9/1/2023	5:08:06	582073.94	4500534.31	40.6515891	-74.0292100	11.6	

SampleType	StationID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth_m	Comments
SPI/PV	013	B	9/1/2023	5:36:20	581207.33	4499290.84	40.6404743	-74.0396197	13.7	
SPI/PV	013	C	9/1/2023	5:37:41	581207.11	4499287.74	40.6404464	-74.0396227	13.7	
SPI/PV	013	D	9/1/2023	5:39:41	581213.56	4499290.14	40.6404673	-74.0395461	13.7	
SPI/PV	014	A	9/1/2023	5:50:44	581095.84	4499014.34	40.6379946	-74.0409736	13.4	
SPI/PV	014	B	9/1/2023	5:52:07	581094.8	4499012.26	40.6379760	-74.0409862	13.4	
SPI/PV	014	D	9/1/2023	5:55:03	581088.47	4499010.82	40.6379637	-74.0410612	13.4	
SPI/PV	015	A	9/1/2023	6:22:49	581023.82	4498705.78	40.6352223	-74.0418650	13.1	
SPI/PV	015	B	9/1/2023	6:24:28	581026.96	4498707.77	40.6352400	-74.0418276	13.1	
SPI/PV	015	C	9/1/2023	6:26:21	581029.79	4498710.14	40.6352610	-74.0417938	13.1	
SPI/PV	016	B	9/1/2023	6:47:02	580981.17	4498406.98	40.6325351	-74.0424077	12.2	
SPI/PV	016	C	9/1/2023	6:48:18	580981.58	4498410.11	40.6325632	-74.0424024	12.2	
SPI/PV	016	D	9/1/2023	6:49:28	580982.92	4498412.21	40.6325820	-74.0423863	12.2	
SPI/PV	017	B	9/1/2023	7:14:41	580876.15	4498124.12	40.6299975	-74.0436857	13.7	
SPI/PV	017	C	9/1/2023	7:15:53	580876.86	4498126.56	40.6300194	-74.0436770	13.7	
SPI/PV	017	D	9/1/2023	7:17:12	580876.32	4498133.64	40.6300832	-74.0436825	13.7	
SPI/PV	020	B	9/1/2023	7:54:56	580799.63	4497260.98	40.6222302	-74.0447012	12.2	
SPI/PV	020	C	9/1/2023	7:57:24	580789.49	4497259.92	40.6222216	-74.0448212	12.2	
SPI/PV	020	D	9/1/2023	8:16:07	580791.47	4497263.31	40.6222520	-74.0447974	12.2	
SPI/PV	029	C	9/1/2023	9:00:44	581797.47	4494873.81	40.6006294	-74.0332153	17.7	
SPI/PV	029	D	9/1/2023	9:03:03	581791.48	4494876.92	40.6006580	-74.0332856	17.7	
SPI/PV	029	E	9/1/2023	9:05:03	581795.54	4494884.17	40.6007229	-74.0332367	17.7	
SPI/PV	030	B	9/1/2023	9:23:52	582092.76	4494812.82	40.6000508	-74.0297336	12.8	
SPI/PV	030	C	9/1/2023	9:25:37	582097.03	4494813.28	40.6000545	-74.0296831	12.8	
SPI/PV	030	D	9/1/2023	9:27:11	582089.36	4494822.77	40.6001407	-74.0297725	12.8	
SPI/PV	031	A	9/1/2023	9:41:27	582401.64	4494790.1	40.5998154	-74.0260863	11.3	
SPI/PV	031	B	9/1/2023	9:42:54	582399.1	4494790.69	40.5998210	-74.0261163	11.3	
SPI/PV	031	C	9/1/2023	9:44:34	582394.9	4494791.98	40.5998330	-74.0261658	11.3	
SPI/PV	032	A	9/1/2023	9:57:25	582692.19	4494704.87	40.5990187	-74.0226640	10.4	
SPI/PV	032	B	9/1/2023	9:58:57	582690.5	4494700.47	40.5989792	-74.0226845	10.4	
SPI/PV	032	D	9/1/2023	10:02:42	582687.61	4494704.7	40.5990176	-74.0227181	10.4	
SPI/PV	033	A	9/1/2023	10:16:24	582937.48	4494530.82	40.5974264	-74.0197882	9.8	
SPI/PV	033	B	9/1/2023	10:17:50	582940.22	4494534.17	40.5974563	-74.0197554	9.8	
SPI/PV	033	C	9/1/2023	10:19:19	582938.38	4494534.74	40.5974616	-74.0197770	9.8	
SPI/PV	033	D	9/1/2023	10:20:49	582943.88	4494532.16	40.5974378	-74.0197124	9.8	
SPI/PV	028	A	9/1/2023	11:13:01	581511.27	4494973.7	40.6015574	-74.0365846	27.4	

SampleType	StationID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth_m	Comments
SPI/PV	028	B	9/1/2023	11:14:41	581505.77	4494973.86	40.6015594	-74.0366495	27.4	
SPI/PV	028	C	9/1/2023	11:16:04	581508.1	4494969.31	40.6015182	-74.0366226	27.4	
SPI/PV	027	A	9/1/2023	11:29:50	581332.98	4495207.14	40.6036777	-74.0386614	31.1	
SPI/PV	027	B	9/1/2023	11:31:29	581328.31	4495211.01	40.6037130	-74.0387161	31.1	
SPI/PV	027	C	9/1/2023	11:33:19	581324.92	4495202.86	40.6036400	-74.0387572	31.1	
SPI/PV	027	D	9/1/2023	11:34:40	581328.59	4495209.2	40.6036967	-74.0387130	31.1	
SPI/PV	026	A	9/1/2023	11:56:41	581229.91	4495495.25	40.6062830	-74.0398424	29.9	
SPI/PV	026	B	9/1/2023	11:57:59	581221.89	4495495.45	40.6062856	-74.0399372	29.9	
SPI/PV	026	C	9/1/2023	11:59:24	581226.09	4495493.17	40.6062647	-74.0398878	29.9	
SPI/PV	025	A	9/1/2023	12:20:29	581123.53	4495785.35	40.6089066	-74.0410623	25.0	
SPI/PV	025	B	9/1/2023	12:21:33	581118.91	4495779.42	40.6088536	-74.0411177	25.0	
SPI/PV	025	C	9/1/2023	12:22:45	581122.5	4495783.77	40.6088925	-74.0410747	25.0	
SPI/PV	024	A	9/1/2023	12:40:11	581036.67	4496075.91	40.6115323	-74.0420515	17.4	
SPI/PV	024	C	9/1/2023	12:42:50	581033.59	4496069.26	40.6114727	-74.0420888	17.4	
SPI/PV	024	D	9/1/2023	12:44:06	581037	4496066.63	40.6114487	-74.0420488	17.4	
SPI/PV	022	A	9/1/2023	13:02:41	580894.51	4496665.51	40.6168571	-74.0436561	10.4	
SPI/PV	002	E	9/1/2023	14:05:14	583351	4501814.17	40.6629894	-74.0139370	11.0	
SPI/PV	002	F	9/1/2023	14:06:26	583349	4501812.72	40.6629766	-74.0139608	11.0	
SPI/PV	003	F	9/1/2023	14:39:54	583078.59	4501684.59	40.6618497	-74.0171763	11.6	
SPI/PV	003	G	9/1/2023	14:40:55	583077.31	4501681.83	40.6618250	-74.0171918	11.6	
SPI/PV	003	H	9/1/2023	14:42:12	583074.82	4501679.72	40.6618062	-74.0172216	11.6	
SPI/PV	004	E	9/1/2023	14:50:50	582855.32	4501481	40.6600383	-74.0198441	11.6	
SPI/PV	004	F	9/1/2023	14:52:18	582853.93	4501479.17	40.6600220	-74.0198608	11.6	
SPI/PV	004	H	9/1/2023	14:54:47	582850.07	4501473.83	40.6599743	-74.0199072	11.6	
SPI/PV	018	I	9/1/2023	16:15:47	580728.03	4497874.08	40.6277597	-74.0454690	12.5	
SPI/PV	018	J	9/1/2023	16:17:05	580728.39	4497871.13	40.6277331	-74.0454651	12.5	
SPI/PV	018	K	9/1/2023	16:18:20	580728.07	4497866.25	40.6276892	-74.0454695	12.5	
SPI/PV	021	A	9/1/2023	16:29:39	580837.81	4496968.67	40.6195934	-74.0442874	10.4	
SPI/PV	021	B	9/1/2023	16:30:51	580839.79	4496965.58	40.6195654	-74.0442644	10.4	
SPI/PV	021	D	9/1/2023	16:33:15	580840.08	4496959.96	40.6195148	-74.0442617	10.4	
SPI/PV	022	B	9/1/2023	16:43:10	580894.47	4496669.26	40.6168909	-74.0436561	10.1	
SPI/PV	022	C	9/1/2023	16:44:51	580895.91	4496662.01	40.6168255	-74.0436400	10.1	
SPI/PV	023	A	9/1/2023	16:54:07	580964.16	4496372.41	40.6142102	-74.0428705	13.1	
SPI/PV	023	B	9/1/2023	16:55:24	580963.56	4496369.53	40.6141843	-74.0428779	13.1	
SPI/PV	023	C	9/1/2023	16:56:26	580962.9	4496366.16	40.6141540	-74.0428862	13.1	

SampleType	StationID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth_m	Comments
SPI/PV	024	E	9/1/2023	17:07:57	581031.2	4496067.81	40.6114599	-74.0421172	16.2	
SPI/PV	024	F	9/1/2023	17:09:21	581028.78	4496071.6	40.6114943	-74.0421454	16.2	
SPI/PV	025	G	9/1/2023	17:27:21	581117.14	4495783.2	40.6088878	-74.0411381	23.5	
SPI/PV	027	E	9/1/2023	17:37:49	581325.88	4495208.47	40.6036904	-74.0387452	29.9	
SPI/PV	028	E	9/1/2023	17:53:03	581509.76	4494969.64	40.6015210	-74.0366029	26.8	
SPI/PV	028	H	9/1/2023	17:57:37	581504.38	4494973.15	40.6015532	-74.0366661	26.8	
SPI/PV	034	A	9/1/2023	19:14:21	583111.49	4494283.08	40.5951774	-74.0177646	8.8	
SPI/PV	034	B	9/1/2023	19:15:34	583114.62	4494282.07	40.5951679	-74.0177277	8.8	
SPI/PV	034	D	9/1/2023	19:18:04	583111.99	4494288.37	40.5952250	-74.0177580	8.8	
SPI/PV	035	B	9/1/2023	19:37:24	583234.2	4494001.89	40.5926322	-74.0163517	9.1	
SPI/PV	035	C	9/1/2023	19:39:01	583232.7	4494003.78	40.5926494	-74.0163691	9.1	
SPI/PV	035	D	9/1/2023	19:40:27	583230.91	4494007.98	40.5926874	-74.0163897	9.1	
SPI/PV	036	B	9/1/2023	19:55:25	583327.08	4493715.36	40.5900419	-74.0152921	9.5	
SPI/PV	036	C	9/1/2023	19:56:59	583325.21	4493712.71	40.5900182	-74.0153145	9.5	
SPI/PV	036	D	9/1/2023	19:58:25	583328.38	4493720.47	40.5900878	-74.0152760	9.5	
SPI/PV	037	A	9/1/2023	20:11:08	583412.35	4493421.04	40.5873822	-74.0143235	10.1	
SPI/PV	037	C	9/1/2023	20:15:15	583413.34	4493426.34	40.5874298	-74.0143111	10.1	
SPI/PV	037	D	9/1/2023	20:16:20	583415.59	4493428.54	40.5874494	-74.0142842	10.1	
SPI/PV	038	E	9/1/2023	21:11:22	583362.82	4493127.02	40.5847388	-74.0149475	11.0	
SPI/PV	038	F	9/1/2023	21:12:39	583369.79	4493129.77	40.5847629	-74.0148648	11.0	
SPI/PV	038	G	9/1/2023	21:13:50	583374.13	4493127.13	40.5847386	-74.0148139	11.0	
SPI/PV	039	A	9/1/2023	21:21:46	583300.48	4492835.31	40.5821175	-74.0157226	8.5	
SPI/PV	039	B	9/1/2023	21:22:42	583298.69	4492833.98	40.5821057	-74.0157439	8.5	
SPI/PV	039	D	9/1/2023	21:24:43	583292.74	4492834.72	40.5821129	-74.0158141	8.5	
SPI/PV	040	A	9/1/2023	21:38:52	583226.62	4492534.35	40.5794140	-74.0166349	8.8	
SPI/PV	040	B	9/1/2023	21:40:14	583223.24	4492530.64	40.5793809	-74.0166753	8.8	
SPI/PV	040	C	9/1/2023	21:41:36	583221.46	4492536.6	40.5794348	-74.0166956	8.8	
SPI/PV	041	A	9/1/2023	21:56:00	583143.93	4492238	40.5767529	-74.0176508	8.8	
SPI/PV	041	C	9/1/2023	21:59:33	583140.11	4492242.96	40.5767980	-74.0176953	8.8	
SPI/PV	041	D	9/1/2023	22:00:50	583137.54	4492246.32	40.5768285	-74.0177252	8.8	
SPI/PV	042	A	9/1/2023	22:15:21	583062.65	4491943.9	40.5741119	-74.0186497	9.8	
SPI/PV	042	B	9/1/2023	22:16:55	583060.24	4491946.68	40.5741372	-74.0186778	9.8	
SPI/PV	042	D	9/1/2023	22:19:02	583056.61	4491948.4	40.5741531	-74.0187205	9.8	
SPI/PV	043	A	9/1/2023	22:32:25	582985.28	4491651.54	40.5714862	-74.0196021	11.3	
SPI/PV	043	B	9/1/2023	22:33:41	582980.49	4491649.22	40.5714658	-74.0196590	11.3	

SampleType	StationID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth_m	Comments
SPI/PV	043	C	9/1/2023	22:34:59	582979.59	4491654.29	40.5715116	-74.0196690	11.3	
SPI/PV	044	B	9/1/2023	22:51:42	582899.01	4491357.61	40.5688473	-74.0206598	10.4	
SPI/PV	044	C	9/1/2023	22:53:02	582901.93	4491358.91	40.5688587	-74.0206251	10.4	
SPI/PV	044	D	9/1/2023	22:54:26	582900.25	4491360.04	40.5688691	-74.0206448	10.4	
SPI/PV	045	A	9/1/2023	23:40:33	582818.76	4491065.12	40.5662207	-74.0216461	10.1	
SPI/PV	045	B	9/1/2023	23:42:18	582822.96	4491060.21	40.5661760	-74.0215971	10.1	
SPI/PV	045	D	9/1/2023	23:44:43	582816.19	4491069.71	40.5662623	-74.0216758	10.1	
SPI/PV	046	B	9/1/2023	23:57:34	582737.49	4490769.02	40.5635617	-74.0226448	10.7	
SPI/PV	046	C	9/1/2023	23:58:45	582740.55	4490772	40.5635882	-74.0226083	10.7	
SPI/PV	046	D	9/1/2023	23:59:48	582737.08	4490777	40.5636336	-74.0226486	10.7	
SPI/PV	047	A	9/2/2023	0:13:31	582712.68	4490465.15	40.5608270	-74.0229776	11.3	
SPI/PV	047	B	9/2/2023	0:14:39	582717.45	4490465.14	40.5608264	-74.0229213	11.3	
SPI/PV	047	C	9/2/2023	0:16:04	582716.08	4490472.84	40.5608959	-74.0229365	11.3	
SPI/PV	048	A	9/2/2023	0:30:48	582720.24	4490166.58	40.5581368	-74.0229275	11.0	
SPI/PV	048	C	9/2/2023	0:33:27	582728.77	4490167.36	40.5581430	-74.0228266	11.0	
SPI/PV	048	D	9/2/2023	0:34:54	582732.35	4490161.48	40.5580897	-74.0227851	11.0	
SPI/PV	049	A	9/2/2023	0:45:37	582762.65	4489859.82	40.5553694	-74.0224668	10.7	
SPI/PV	049	B	9/2/2023	0:46:39	582765.26	4489868.57	40.5554480	-74.0224348	10.7	
SPI/PV	049	C	9/2/2023	0:47:59	582768.43	4489864.41	40.5554102	-74.0223979	10.7	
SPI/PV	050	A	9/2/2023	1:00:25	582846.59	4489572.62	40.5527740	-74.0215131	10.7	
SPI/PV	050	B	9/2/2023	1:01:33	582846.08	4489562.58	40.5526837	-74.0215205	10.7	
SPI/PV	050	E	9/2/2023	1:05:43	582846.69	4489566.65	40.5527203	-74.0215128	10.7	
SPI/PV	051	A	9/2/2023	1:18:45	582951.53	4489281.35	40.5501399	-74.0203121	15.2	
SPI/PV	051	C	9/2/2023	1:21:43	582954.1	4489281.74	40.5501431	-74.0202817	15.2	
SPI/PV	051	D	9/2/2023	1:23:05	582953.13	4489287.15	40.5501920	-74.0202925	15.2	
SPI/PV	052	A	9/2/2023	1:35:04	583064.9	4489004.53	40.5476350	-74.0190098	15.2	
SPI/PV	052	B	9/2/2023	1:36:27	583067.01	4489002.33	40.5476150	-74.0189851	15.2	
SPI/PV	052	C	9/2/2023	1:37:46	583068.48	4488998.89	40.5475839	-74.0189682	15.2	
SPI/PV	053	B	9/2/2023	1:51:16	583167.51	4488714.79	40.5450149	-74.0178362	14.3	
SPI/PV	053	C	9/2/2023	1:52:38	583167.31	4488711	40.5449808	-74.0178391	14.3	
SPI/PV	053	D	9/2/2023	1:53:58	583167.76	4488707.68	40.5449508	-74.0178342	14.3	
SPI/PV	054	A	9/2/2023	2:03:32	583309.15	4488447.89	40.5425965	-74.0161990	17.7	
SPI/PV	054	B	9/2/2023	2:05:10	583313.18	4488445.68	40.5425762	-74.0161517	17.7	
SPI/PV	054	C	9/2/2023	2:06:34	583314.91	4488442.86	40.5425506	-74.0161316	17.7	
SPI/PV	055	A	9/2/2023	2:19:09	583409.07	4488161.87	40.5400101	-74.0150569	18.9	

SampleType	StationID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth_m	Comments
SPI/PV	055	B	9/2/2023	2:20:51	583412.25	4488158.99	40.5399838	-74.0150197	18.9	
SPI/PV	055	C	9/2/2023	2:22:22	583406.88	4488153.61	40.5399359	-74.0150839	18.9	
SPI/PV	068	A	9/2/2023	4:11:07	586514.97	4486188.58	40.5219172	-73.9786560	6.1	
SPI/PV	068	B	9/2/2023	4:12:09	586521.83	4486189.28	40.5219228	-73.9785749	6.1	
SPI/PV	068	D	9/2/2023	4:14:11	586514.54	4486192.25	40.5219503	-73.9786606	6.1	
SPI/PV	069	A	9/2/2023	4:22:21	586805.96	4486103.37	40.5211192	-73.9752329	5.8	
SPI/PV	069	B	9/2/2023	4:23:30	586811.19	4486102.1	40.5211072	-73.9751714	5.8	
SPI/PV	069	C	9/2/2023	4:24:39	586816.26	4486104.9	40.5211319	-73.9751112	5.8	
SPI/PV	070	A	9/2/2023	4:35:04	587096.84	4486016.03	40.5203020	-73.9718116	5.5	
SPI/PV	070	B	9/2/2023	4:36:06	587100.07	4486016.6	40.5203068	-73.9717734	5.5	
SPI/PV	070	C	9/2/2023	4:37:22	587103.98	4486016.26	40.5203033	-73.9717273	5.5	
SPI/PV	071	A	9/2/2023	4:49:19	587372.95	4485890.38	40.5191412	-73.9685699	5.2	
SPI/PV	071	C	9/2/2023	4:51:38	587381.15	4485891.7	40.5191522	-73.9684729	5.2	
SPI/PV	071	D	9/2/2023	4:52:45	587384.12	4485892.35	40.5191577	-73.9684378	5.2	
SPI/PV	067	A	9/2/2023	5:08:52	586223.76	4486252.66	40.5225247	-73.9820846	6.1	
SPI/PV	067	C	9/2/2023	5:11:13	586217.85	4486255.98	40.5225552	-73.9821539	6.1	
SPI/PV	067	D	9/2/2023	5:12:15	586222.56	4486258.36	40.5225762	-73.9820980	6.1	
SPI/PV	066	A	9/2/2023	5:23:01	585922.6	4486271.98	40.5227300	-73.9856368	8.5	
SPI/PV	066	C	9/2/2023	5:25:25	585921.65	4486279.25	40.5227956	-73.9856470	8.5	
SPI/PV	066	D	9/2/2023	5:26:48	585916.2	4486276.21	40.5227688	-73.9857118	8.5	
SPI/PV	065	A	9/2/2023	5:38:42	585613.56	4486289.28	40.5229178	-73.9892823	12.2	
SPI/PV	065	C	9/2/2023	5:40:48	585613.44	4486295.24	40.5229715	-73.9892829	12.2	
SPI/PV	065	D	9/2/2023	5:41:59	585616.7	4486297.96	40.5229957	-73.9892441	12.2	
SPI/PV	064	A	9/2/2023	5:59:00	585309.38	4486324.75	40.5232686	-73.9928680	17.4	
SPI/PV	064	B	9/2/2023	6:00:36	585310.12	4486322.62	40.5232494	-73.9928596	17.4	
SPI/PV	064	C	9/2/2023	6:02:00	585310.56	4486320.36	40.5232290	-73.9928547	17.4	
SPI/PV	063	A	9/2/2023	6:17:59	585024.15	4486417.57	40.5241340	-73.9962224	18.9	
SPI/PV	063	B	9/2/2023	6:19:34	585027.63	4486420.5	40.5241601	-73.9961809	18.9	
SPI/PV	063	C	9/2/2023	6:20:58	585024.7	4486421.27	40.5241673	-73.9962154	18.9	
SPI/PV	062	A	9/2/2023	6:37:40	584756.93	4486560.18	40.5254460	-73.9993575	18.0	
SPI/PV	062	D	9/2/2023	6:43:52	584750.94	4486565.63	40.5254957	-73.9994275	18.0	
SPI/PV	062	E	9/2/2023	6:46:00	584752.87	4486564.09	40.5254816	-73.9994049	18.0	
SPI/PV	072	B	9/2/2023	8:18:37	587637.41	4485721.89	40.5175956	-73.9654718	6.7	
SPI/PV	072	C	9/2/2023	8:19:51	587633.65	4485721.25	40.5175902	-73.9655163	6.7	
SPI/PV	072	D	9/2/2023	8:21:23	587627.12	4485725.75	40.5176314	-73.9655927	6.7	

SampleType	StationID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth_m	Comments
SPI/PV	073	A	9/2/2023	8:35:08	587889.87	4485551.31	40.5160324	-73.9625157	7.0	
SPI/PV	073	B	9/2/2023	8:36:28	587893.58	4485554.37	40.5160595	-73.9624715	7.0	
SPI/PV	073	C	9/2/2023	8:37:37	587890.2	4485556.23	40.5160766	-73.9625112	7.0	
SPI/PV	074	A	9/2/2023	8:51:16	588114	4485348.74	40.5141839	-73.9598986	7.3	
SPI/PV	074	C	9/2/2023	8:53:55	588111.59	4485350.19	40.5141972	-73.9599269	7.3	
SPI/PV	074	D	9/2/2023	8:55:07	588106.58	4485347.64	40.5141748	-73.9599864	7.3	
SPI/PV	075	B	9/2/2023	9:10:29	588352.55	4485163.98	40.5124943	-73.9571090	7.9	
SPI/PV	075	C	9/2/2023	9:11:49	588348.09	4485162.51	40.5124816	-73.9571619	7.9	
SPI/PV	075	D	9/2/2023	9:13:00	588343.29	4485162.6	40.5124829	-73.9572185	7.9	
SPI/PV	076	A	9/2/2023	9:28:07	588622.34	4485025.14	40.5112149	-73.9539444	8.1	
SPI/PV	076	B	9/2/2023	9:29:15	588619.83	4485020.64	40.5111747	-73.9539747	8.1	
SPI/PV	076	C	9/2/2023	9:30:43	588623.03	4485027.35	40.5112348	-73.9539360	8.1	
SPI/PV	077	A	9/2/2023	9:45:08	588900.18	4484901.82	40.5100744	-73.9506828	7.6	
SPI/PV	077	B	9/2/2023	9:46:12	588897.58	4484896.38	40.5100257	-73.9507142	7.6	
SPI/PV	077	E	9/2/2023	9:53:59	588896.31	4484902.1	40.5100773	-73.9507284	7.6	
SPI/PV	078	A	9/2/2023	10:09:47	589185.72	4484801.91	40.5091438	-73.9473271	8.2	
SPI/PV	078	B	9/2/2023	10:10:52	589190	4484803.86	40.5091609	-73.9472763	8.2	
SPI/PV	078	D	9/2/2023	10:13:22	589182.09	4484807.85	40.5091977	-73.9473691	8.2	
SPI/PV	079	A	9/2/2023	10:25:03	589481.74	4484721.35	40.5083863	-73.9438450	9.1	
SPI/PV	079	B	9/2/2023	10:26:19	589480.42	4484722.55	40.5083972	-73.9438605	9.1	
SPI/PV	079	C	9/2/2023	10:27:30	589477.82	4484723.24	40.5084037	-73.9438910	9.1	
SPI/PV	080	A	9/2/2023	10:41:30	589759.59	4484595.55	40.5072231	-73.9405839	10.4	
SPI/PV	080	B	9/2/2023	10:42:50	589759.1	4484597.86	40.5072440	-73.9405894	10.4	
SPI/PV	080	C	9/2/2023	10:44:08	589754.4	4484598.52	40.5072504	-73.9406448	10.4	
SPI/PV	061	A	9/2/2023	11:12:17	584500.24	4486722.98	40.5269386	-74.0023658	20.7	
SPI/PV	061	B	9/2/2023	11:13:56	584496.43	4486725.58	40.5269624	-74.0024105	20.7	
SPI/PV	061	D	9/2/2023	11:16:48	584496.59	4486729.34	40.5269963	-74.0024081	20.7	
SPI/PV	060	B	9/2/2023	11:25:27	584283.14	4486941.58	40.5289298	-74.0048995	17.4	
SPI/PV	060	C	9/2/2023	11:26:41	584279.85	4486939.9	40.5289150	-74.0049386	17.4	
SPI/PV	060	D	9/2/2023	11:28:02	584282.6	4486946.38	40.5289731	-74.0049052	17.4	
SPI/PV	059	A	9/2/2023	11:36:27	584067.55	4487152.43	40.5308509	-74.0074165	12.8	
SPI/PV	059	B	9/2/2023	11:37:38	584066.45	4487155.36	40.5308774	-74.0074291	12.8	
SPI/PV	059	C	9/2/2023	11:38:57	584066.58	4487157.06	40.5308927	-74.0074273	12.8	
SPI/PV	058	A	9/2/2023	11:49:49	583852.51	4487370.34	40.5328355	-74.0099262	16.8	
SPI/PV	058	B	9/2/2023	11:51:10	583852.36	4487376.13	40.5328877	-74.0099272	16.8	

SampleType	StationID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth_m	Comments
SPI/PV	058	C	9/2/2023	11:52:30	583847.22	4487371.69	40.5328482	-74.0099885	16.8	
SPI/PV	057	A	9/2/2023	12:05:15	583653.78	4487599	40.5349153	-74.0122421	20.4	
SPI/PV	057	B	9/2/2023	12:06:27	583652.7	4487603.67	40.5349575	-74.0122542	20.4	
SPI/PV	057	D	9/2/2023	12:08:21	583647.71	4487602.51	40.5349475	-74.0123133	20.4	
SPI/PV	056	A	9/2/2023	12:19:47	583496.65	4487872.4	40.5373938	-74.0140611	20.4	
SPI/PV	056	C	9/2/2023	12:22:05	583500.42	4487868.42	40.5373576	-74.0140171	20.4	
SPI/PV	056	D	9/2/2023	12:23:09	583503.93	4487866.13	40.5373366	-74.0139760	60.0	
SPI/PV	081	A	9/2/2023	13:42:59	590031.82	4484470.68	40.5060689	-73.9373891	10.1	
SPI/PV	081	B	9/2/2023	13:44:31	590029.88	4484477.58	40.5061312	-73.9374111	10.1	
SPI/PV	081	D	9/2/2023	13:46:57	590037.13	4484474.21	40.5061001	-73.9373260	10.1	
SPI/PV	082	B	9/2/2023	13:59:01	590309.31	4484348.24	40.5049358	-73.9341320	10.7	
SPI/PV	082	C	9/2/2023	14:00:18	590314.08	4484349.23	40.5049442	-73.9340756	10.7	
SPI/PV	082	D	9/2/2023	14:01:15	590313.04	4484354.77	40.5049943	-73.9340871	10.7	
SPI/PV	083	B	9/2/2023	14:12:03	590589.22	4484224.56	40.5037913	-73.9308466	11.0	
SPI/PV	083	C	9/2/2023	14:13:02	590591.46	4484228.52	40.5038267	-73.9308197	11.0	
SPI/PV	083	D	9/2/2023	14:14:02	590596.61	4484225.84	40.5038020	-73.9307593	11.0	
SPI/PV	084	A	9/2/2023	14:27:30	590866.63	4484104.49	40.5026794	-73.9275904	11.3	
SPI/PV	084	B	9/2/2023	14:28:54	590870.83	4484104.01	40.5026746	-73.9275409	11.3	
SPI/PV	084	C	9/2/2023	14:30:09	590874.57	4484100.61	40.5026436	-73.9274972	11.3	
SPI/PV	084	D	9/2/2023	14:31:34	590869.76	4484101.49	40.5026521	-73.9275539	11.3	
SPI/PV	085	A	9/2/2023	14:43:46	591142.95	4483979.25	40.5015210	-73.9243478	11.0	
SPI/PV	085	C	9/2/2023	14:46:33	591150.75	4483977.1	40.5015008	-73.9242561	11.0	
SPI/PV	085	D	9/2/2023	14:48:01	591149.43	4483983.54	40.5015590	-73.9242707	11.0	
SPI/PV	086	A	9/2/2023	15:02:35	591421.65	4483852.7	40.5003505	-73.9210775	11.0	
SPI/PV	086	C	9/2/2023	15:05:24	591429.1	4483850.4	40.5003290	-73.9209899	11.0	
SPI/PV	086	D	9/2/2023	15:07:02	591426.87	4483847.54	40.5003034	-73.9210166	11.0	
SPI/PV	086	E	9/2/2023	15:08:38	591428.07	4483854.6	40.5003669	-73.9210014	11.0	
SPI/PV	087	B	9/2/2023	15:26:15	591706.89	4483726.7	40.4991841	-73.9177300	10.7	
SPI/PV	087	D	9/2/2023	15:28:44	591704.57	4483732.29	40.4992347	-73.9177565	10.7	
SPI/PV	087	E	9/2/2023	15:30:01	591700.91	4483733.03	40.4992418	-73.9177996	10.7	
SPI/PV	088	B	9/2/2023	15:48:35	591978.13	4483607.45	40.4980799	-73.9145468	10.7	
SPI/PV	088	C	9/2/2023	15:49:33	591984.81	4483607.38	40.4980786	-73.9144680	10.7	
SPI/PV	088	D	9/2/2023	15:50:37	591983.74	4483599.61	40.4980087	-73.9144818	10.7	
SPI/PV	089	A	9/2/2023	16:02:16	592262.16	4483478.46	40.4968865	-73.9112143	10.7	
SPI/PV	089	B	9/2/2023	16:03:57	592259.84	4483474.16	40.4968481	-73.9112423	10.7	

SampleType	StationID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth_m	Comments
SPI/PV	089	C	9/2/2023	16:04:59	592254.05	4483481.03	40.4969106	-73.9113096	10.7	
SPI/PV	090	A	9/2/2023	16:23:20	592539.71	4483356.79	40.4957597	-73.9079572	11.3	
SPI/PV	090	B	9/2/2023	16:24:34	592536.93	4483350.11	40.4956998	-73.9079910	11.3	
SPI/PV	090	C	9/2/2023	16:25:49	592542.65	4483354.31	40.4957370	-73.9079229	11.3	
SPI/PV	090	D	9/2/2023	16:27:16	592535.41	4483355.88	40.4957520	-73.9080081	11.3	
SPI/PV	091	A	9/2/2023	16:42:01	592820	4483233.29	40.4946160	-73.9046683	11.3	
SPI/PV	091	C	9/2/2023	16:45:03	592815.81	4483225.87	40.4945496	-73.9047188	11.3	
SPI/PV	091	D	9/2/2023	16:46:11	592812.84	4483231.46	40.4946003	-73.9047530	11.3	

Sample Type	Station ID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth (m)	Sample ID	Comments
Grab (BCA/GS)	002	A	9/2/2023	19:39:16	583353.93	4501815.51	40.6630012	-74.0139021	11.6	N/A	
Grab (BCA/GS)	002	B	9/2/2023	20:02:27	583351.36	4501809.87	40.6629507	-74.0139333	11.6	N/A	
Grab (BCA/GS)	002	C	9/2/2023	20:27:55	583355.99	4501808.7	40.6629397	-74.0138787	11.6	EW_23B1_GRAB_002C	
Grab (BCA/GS)	002	D	9/2/2023	21:00:36	583351.05	4501811.14	40.6629621	-74.0139368	12.2	EW_23B1_GRAB_002D	
Grab (BCA/GS)	002	E	9/2/2023	21:20:21	583355.94	4501806.41	40.662919	-74.0138796	12.2	EW_23B1_GRAB_002E	
Grab (BCA/GS)	003	A	9/2/2023	21:43:29	583078.29	4501677.72	40.6617879	-74.0171808	12.5	EW_23B1_GRAB_003A	
Grab (BCA/GS)	003	B	9/2/2023	22:06:40	583078.3	4501676.69	40.6617786	-74.0171808	12.5	EW_23B1_GRAB_003B	
Grab (BCA/GS)	003	C	9/2/2023	22:24:16	583078.69	4501679.95	40.6618079	-74.0171758	12.5	EW_23B1_GRAB_003C	
Grab (BCA/GS)	005	A	9/2/2023	22:42:49	582659.03	4501247.88	40.6579582	-74.0221965	12.8	EW_23B1_GRAB_005A	Grab good.
Grab (BCA/GS)	005	B	9/2/2023	23:09:08	582657.1	4501245.39	40.657936	-74.0222197	12.8	N/A	No good.
Grab (BCA/GS)	005	C	9/2/2023	23:11:24	582656.73	4501243.91	40.6579227	-74.0222242	12.8	N/A	No good.
Grab (BCA/GS)	005	D	9/2/2023	23:14:48	582658.4	4501239.14	40.6578795	-74.0222051	12.8	N/A	No good.
Grab (BCA/GS)	005	E	9/2/2023	23:16:46	582656.21	4501244.46	40.6579277	-74.0222303	12.8	N/A	No good.
Grab (BCA/GS)	005	F	9/2/2023	23:21:36	582657.1	4501239.76	40.6578853	-74.0222204	12.8	N/A	Sample not good.
Grab (BCA/GS)	005	G	9/2/2023	23:23:28	582656.77	4501239.31	40.6578812	-74.0222244	12.8	EW_23B1_GRAB_005G	Good grab.
Grab (BCA/GS)	005	H	9/2/2023	23:44:41	582658.57	4501242.33	40.6579083	-74.0222027	12.8	EW_23B1_GRAB_005H	Sample good.
Grab (BCA/GS)	007	A	9/3/2023	0:24:59	582271.11	4500776.47	40.6537508	-74.0268464	13.7	N/A	No good; did not trigger.
Grab (BCA/GS)	007	B	9/3/2023	0:26:21	582269.6	4500776.43	40.6537505	-74.0268643	13.7	N/A	No good; empty grab; early trigger.
Grab (BCA/GS)	007	C	9/3/2023	0:31:46	582267.76	4500775.08	40.6537386	-74.0268862	13.7	EW_23B1_GRAB_007C	Good sample.
Grab (BCA/GS)	007	D	9/3/2023	0:56:29	582266.52	4500770.93	40.6537013	-74.0269014	13.7	EW_23B1_GRAB_007D	Good sample.
Grab (BCA/GS)	007	E	9/3/2023	1:18:16	582263.62	4500775.52	40.6537429	-74.0269351	13.7	EW_23B1_GRAB_007E	Good sample.
Grab (BCA/GS)	009	A	9/3/2023	1:43:08	581875.06	4500304.39	40.6495379	-74.031592	11.6	EW_23B1_GRAB_009A	Good sample.
Grab (BCA/GS)	009	B	9/3/2023	1:58:27	581877.94	4500307.7	40.6495674	-74.0315575	11.6	EW_23B1_GRAB_009B	Good sample.
Grab (BCA/GS)	009	C	9/3/2023	2:14:13	581876.62	4500303.28	40.6495277	-74.0315737	11.6	EW_23B1_GRAB_009C	Good sample.
Grab (BCA/GS)	011	A	9/3/2023	2:42:54	581519.39	4499817.13	40.6451841	-74.0358614	12.8	EW_23B1_GRAB_011A	Good sample.
Grab (BCA/GS)	011	B	9/3/2023	2:59:33	581517.77	4499807.68	40.6450991	-74.0358818	12.8	EW_23B1_GRAB_011B	Good sample.
Grab (BCA/GS)	011	C	9/3/2023	3:16:50	581520.28	4499810.47	40.645124	-74.0358518	12.8	EW_23B1_GRAB_011C	Good sample.
Grab (BCA/GS)	013	A	9/3/2023	3:37:05	581205.11	4499285.76	40.6404287	-74.0396466	13.4	EW_23B1_GRAB_013A	Good sample.
Grab (BCA/GS)	013	B	9/3/2023	3:55:41	581213.42	4499284.24	40.6404142	-74.0395485	13.4	EW_23B1_GRAB_013B	Good sample.
Grab (BCA/GS)	013	C	9/3/2023	4:13:58	581211.84	4499291.37	40.6404786	-74.0395663	13.4	EW_23B1_GRAB_013C	Good sample.
Grab (BCA/GS)	015	A	9/3/2023	4:39:20	581021.77	4498712.41	40.6352823	-74.0418883	11.9	EW_23B1_GRAB_015A	Good sample.
Grab (BCA/GS)	015	B	9/3/2023	4:56:59	581019.95	4498711.31	40.6352725	-74.04191	11.9	N/A	Early trigger.
Grab (BCA/GS)	015	C	9/3/2023	5:00:25	581022.94	4498713.01	40.6352875	-74.0418744	11.9	EW_23B1_GRAB_015C	Good sample.
Grab (BCA/GS)	015	D	9/3/2023	5:19:16	581027.14	4498713.79	40.6352942	-74.0418247	11.9	N/A	Grab obstructed and didn't close properly.
Grab (BCA/GS)	015	E	9/3/2023	5:22:57	581026.73	4498713.37	40.6352904	-74.0418296	11.9	EW_23B1_GRAB_015E	Good sample.
Grab (BCA/GS)	017	A	9/3/2023	5:35:39	580872.99	4498132.72	40.6300752	-74.043722	12.2	EW_23B1_GRAB_017A	Good sample.
Grab (BCA/GS)	017	B	9/3/2023	5:57:06	580873.09	4498125.77	40.6300126	-74.0437217	12.2	N/A	Grab obstructed and didn't close properly.
Grab (BCA/GS)	017	C	9/3/2023	5:59:52	580873.38	4498134.07	40.6300874	-74.0437172	12.2	EW_23B1_GRAB_017C	Good sample.
Grab (BCA/GS)	017	D	9/3/2023	6:24:04	580875.77	4498131.67	40.6300655	-74.0436893	12.2	EW_23B1_GRAB_017D	Good sample.
Grab (BCA/GS)	019	A	9/3/2023	6:49:59	580757.56	4497570.96	40.6250265	-74.0451588	11.9	EW_23B1_GRAB_019A	
Grab (BCA/GS)	019	B	9/3/2023	7:09:29	580754.48	4497564.01	40.6249641	-74.0451961	11.9	EW_23B1_GRAB_019B	Good sample.
Grab (BCA/GS)	019	C	9/3/2023	7:31:03	580755.86	4497564.38	40.6249673	-74.0451797	11.9	EW_23B1_GRAB_019C	Good sample.
Grab (BCA/GS)	021	A	9/3/2023	7:53:07	580838.74	4496959.34	40.6195093	-74.0442776	10.7	N/A	Not enough sediment.
Grab (BCA/GS)	021	B	9/3/2023	7:57:25	580837.05	4496959.89	40.6195144	-74.0442975	10.7	N/A	Not enough penetration.
Grab (BCA/GS)	021	C	9/3/2023	8:01:23	580837.21	4496960.55	40.6195203	-74.0442955	10.7	EW_23B1_GRAB_021C	Good sample.
Grab (BCA/GS)	021	D	9/3/2023	8:21:23	580838.5	4496959.54	40.6195111	-74.0442804	10.7	EW_23B1_GRAB_021D	Good sample.

Sample Type	Station ID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth (m)	Sample ID	Comments
Grab (BCA/GS)	021	E	9/3/2023	8:46:47	580838.4	4496960.68	40.6195214	-74.0442815	10.7	N/A	Grab not closed.
Grab (BCA/GS)	021	F	9/3/2023	8:49:03	580838.18	4496960.67	40.6195213	-74.0442841	10.7	N/A	Other debris found in grab.
Grab (BCA/GS)	021	G	9/3/2023	8:51:09	580834.4	4496961.62	40.6195303	-74.0443286	10.7	N/A	Other debris found in grab.
Grab (BCA/GS)	021	H	9/3/2023	8:53:39	580841.13	4496958.91	40.6195052	-74.0442494	10.7	N/A	Other debris found in grab.
Grab (BCA/GS)	021	I	9/3/2023	9:00:54	580813.12	4496963.98	40.6195536	-74.0445799	10.7	EW_23B1_GRAB_021I	Good sample.
Grab (BCA/GS)	023	A	9/3/2023	9:22:08	580964.7	4496363.05	40.6141258	-74.0428653	14.9	EW_23B1_GRAB_023A	Good sample.
Grab (BCA/GS)	023	B	9/3/2023	9:41:18	580957.35	4496364.48	40.6141394	-74.042952	14.9	N/A	Debris in grabber; no sample.
Grab (BCA/GS)	023	C	9/3/2023	9:45:30	580960.41	4496364.1	40.6141357	-74.0429159	14.9	EW_23B1_GRAB_023C	Good sample.
Grab (BCA/GS)	023	D	9/3/2023	10:06:38	580964.36	4496360.1	40.6140993	-74.0428697	14.9	N/A	Debris in grabber.
Grab (BCA/GS)	023	E	9/3/2023	10:12:30	580959.13	4496360.12	40.6141	-74.0429315	14.9	N/A	Debris in grabber.
Grab (BCA/GS)	023	F	9/3/2023	10:17:07	580962.15	4496361.07	40.6141083	-74.0428957	14.9	N/A	Debris in grab.
Grab (BCA/GS)	023	G	9/3/2023	13:46:27	580950.51	4496368.98	40.6141806	-74.0430323	14.9	N/A	No good.
Grab (BCA/GS)	023	H	9/3/2023	13:52:08	580954.98	4496372.8	40.6142146	-74.0429789	14.9	N/A	No good.
Grab (BCA/GS)	023	I	9/3/2023	13:54:24	580972.13	4496371.14	40.614198	-74.0427764	14.9	EW_23B1_GRAB_023I	Good sample.
Grab (BCA/GS)	025	A	9/3/2023	14:35:53	581119.5	4495779.16	40.6088512	-74.0411107	24.7	N/A	No good.
Grab (BCA/GS)	025	B	9/3/2023	14:40:55	581123.33	4495781.48	40.6088717	-74.0410652	24.7	N/A	No good.
Grab (BCA/GS)	025	C	9/3/2023	14:45:23	581125.17	4495778.52	40.6088449	-74.0410438	24.7	EW_23B1_GRAB_025C	Sample good.
Grab (BCA/GS)	025	D	9/3/2023	15:10:53	581119.55	4495776.33	40.6088257	-74.0411105	24.7	N/A	No good.
Grab (BCA/GS)	025	E	9/3/2023	15:16:14	581123	4495777.34	40.6088345	-74.0410696	24.7	EW_23B1_GRAB_025E	Sample good.
Grab (BCA/GS)	025	F	9/3/2023	15:37:56	581117.96	4495773.94	40.6088044	-74.0411296	24.7	EW_23B1_GRAB_025F	Sample good.
Grab (BCA/GS)	027	A	9/3/2023	16:07:32	581332.15	4495203.68	40.6036466	-74.0386717	29.9	EW_23B1_GRAB_027A	Sample good.
Grab (BCA/GS)	027	B	9/3/2023	16:30:14	581334.97	4495206.78	40.6036743	-74.038638	29.9	N/A	No good.
Grab (BCA/GS)	027	C	9/3/2023	16:35:16	581326.3	4495206.58	40.6036733	-74.0387404	29.9	N/A	No good.
Grab (BCA/GS)	027	D	9/3/2023	16:41:29	581328.84	4495205.41	40.6036625	-74.0387106	29.9	EW_23B1_GRAB_027D	Sample good.
Grab (BCA/GS)	027	E	9/3/2023	17:01:56	581330.67	4495202.04	40.603632	-74.0386894	29.9	EW_23B1_GRAB_027E	
Grab (BCA/GS)	029	A	9/3/2023	18:02:45	581794.46	4494881.91	40.6007027	-74.0332498	15.2	N/A	No good.
Grab (BCA/GS)	029	B	9/3/2023	18:07:12	581791.24	4494881.68	40.6007009	-74.0332879	15.2	N/A	No good.
Grab (BCA/GS)	029	C	9/3/2023	18:17:34	581796.56	4494881.49	40.6006987	-74.033225	15.2	EW_23B1_GRAB_029C	Sample good.
Grab (BCA/GS)	029	D	9/3/2023	18:36:53	581792.88	4494881.86	40.6007024	-74.0332685	15.2	EW_23B1_GRAB_029D	Sample good.
Grab (BCA/GS)	029	E	9/3/2023	18:56:17	581796.25	4494873.33	40.6006252	-74.0332297	15.2	N/A	No good.
Grab (BCA/GS)	029	F	9/3/2023	19:01:53	581792.87	4494875.43	40.6006445	-74.0332694	15.2	EW_23B1_GRAB_029F	Sample good.
Grab (BCA/GS)	031	A	9/3/2023	19:24:35	582400.25	4494793.31	40.5998445	-74.0261024	9.8	N/A	No good.
Grab (BCA/GS)	031	B	9/3/2023	19:28:53	582400.86	4494790.97	40.5998233	-74.0260955	9.8	EW_23B1_GRAB_031B	Sample good.
Grab (BCA/GS)	031	C	9/3/2023	19:48:14	582399.02	4494796.18	40.5998704	-74.0261165	9.8	EW_23B1_GRAB_031C	Sample good.
Grab (BCA/GS)	031	D	9/3/2023	20:04:00	582402.5	4494794.54	40.5998553	-74.0260756	9.8	EW_23B1_GRAB_031D	Good sample.
Grab (BCA/GS)	033	A	9/3/2023	20:31:23	582934.05	4494539.01	40.5975005	-74.0198276	8.5	N/A	No good.
Grab (BCA/GS)	033	B	9/3/2023	20:35:01	582940.99	4494534.85	40.5974623	-74.0197462	8.5	N/A	No good.
Grab (BCA/GS)	033	C	9/3/2023	20:38:57	582943.99	4494533.41	40.597449	-74.0197109	8.5	EW_23B1_GRAB_033C	Sample good.
Grab (BCA/GS)	033	D	9/3/2023	20:53:58	582940.77	4494534.73	40.5974612	-74.0197488	8.5	EW_23B1_GRAB_033D	
Grab (BCA/GS)	033	E	9/3/2023	21:11:07	582942.04	4494536.86	40.5974803	-74.0197335	8.5	EW_23B1_GRAB_033E	Sample good.
Grab (BCA/GS)	035	A	9/3/2023	21:40:00	583231.46	4494006.54	40.5926743	-74.0163834	9.1	EW_23B1_GRAB_035A	
Grab (BCA/GS)	035	B	9/3/2023	22:00:22	583232.01	4494004.59	40.5926567	-74.0163772	9.1	EW_23B1_GRAB_035B	Sample good.
Grab (BCA/GS)	035	C	9/3/2023	22:16:52	583227.63	4494007.89	40.5926869	-74.0164285	9.1	EW_23B1_GRAB_035C	Sample is good.
Grab (BCA/GS)	037	A	9/3/2023	22:37:47	583409.21	4493426.29	40.5874298	-74.0143599	10.1	EW_23B1_GRAB_037A	Sample good.
Grab (BCA/GS)	037	B	9/3/2023	22:54:17	583411.68	4493428.61	40.5874505	-74.0143304	10.1	EW_23B1_GRAB_037B	Sample good.
Grab (BCA/GS)	037	C	9/3/2023	23:11:08	583411.82	4493427.04	40.5874363	-74.0143289	10.1	EW_23B1_GRAB_037C	Sample good.

Sample Type	Station ID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth (m)	Sample ID	Comments
Grab (BCA/GS)	039	A	9/3/2023	23:35:42	583296.94	4492835.64	40.5821208	-74.0157644	7.9	N/A	No good.
Grab (BCA/GS)	039	B	9/3/2023	23:39:01	583297.77	4492836.42	40.5821277	-74.0157544	7.9	EW_23B1_GRAB_039B	Sample good.
Grab (BCA/GS)	039	C	9/4/2023	0:08:48	583294.66	4492834.05	40.5821067	-74.0157915	7.9	N/A	Debris in grabber.
Grab (BCA/GS)	039	D	9/4/2023	0:11:28	583294.68	4492831.67	40.5820853	-74.0157916	7.9	N/A	No trigger.
Grab (BCA/GS)	039	E	9/4/2023	0:13:44	583297.78	4492828.97	40.5820606	-74.0157553	7.9	N/A	Debris in grabber.
Grab (BCA/GS)	039	F	9/4/2023	0:17:40	583295.96	4492836.22	40.5821261	-74.0157759	7.9	N/A	No trigger.
Grab (BCA/GS)	039	G	9/4/2023	0:20:13	583295.4	4492832.95	40.5820967	-74.0157829	7.9	EW_23B1_GRAB_039G	Good sample.
Grab (BCA/GS)	039	H	9/4/2023	0:40:51	583297.02	4492830.55	40.5820749	-74.0157641	7.9	N/A	No trigger.
Grab (BCA/GS)	039	I	9/4/2023	0:42:41	583292.62	4492830.43	40.5820743	-74.0158161	7.9	EW_23B1_GRAB_039I	Good sample.
Grab (BCA/GS)	041	A	9/4/2023	1:11:21	583138.34	4492239.5	40.576767	-74.0177167	7.9	N/A	No trigger.
Grab (BCA/GS)	041	B	9/4/2023	1:12:39	583137.48	4492239.09	40.5767634	-74.0177269	7.9	EW_23B1_GRAB_041B	Good sample.
Grab (BCA/GS)	041	C	9/4/2023	1:31:29	583140.46	4492244.79	40.5768144	-74.0176909	7.9	EW_23B1_GRAB_041C	Good sample.
Grab (BCA/GS)	041	D	9/4/2023	1:48:37	583139.64	4492240.98	40.5767802	-74.0177011	7.9	N/A	No trigger.
Grab (BCA/GS)	041	E	9/4/2023	1:49:19	583142.93	4492240.4	40.5767746	-74.0176623	7.9	EW_23B1_GRAB_041E	Good sample.
Grab (BCA/GS)	043	A	9/4/2023	2:16:15	582984.06	4491656.45	40.5715306	-74.0196159	9.8	EW_23B1_GRAB_043A	Good sample.
Grab (BCA/GS)	043	B	9/4/2023	2:34:00	582982.97	4491652.83	40.5714981	-74.0196293	9.8	EW_23B1_GRAB_043B	Good sample.
Grab (BCA/GS)	043	C	9/4/2023	2:50:11	582975.72	4491651.53	40.5714871	-74.0197151	9.8	EW_23B1_GRAB_043C	Good sample.
Grab (BCA/GS)	045	A	9/4/2023	3:09:16	582816.26	4491062.73	40.5661994	-74.0216759	9.1	EW_23B1_GRAB_045A	Good sample.
Grab (BCA/GS)	045	B	9/4/2023	3:27:54	582815.12	4491061.31	40.5661867	-74.0216896	9.1	EW_23B1_GRAB_045B	Good sample.
Grab (BCA/GS)	045	C	9/4/2023	3:50:19	582818.03	4491070.7	40.566271	-74.021654	9.1	N/A	Debris in grabber.
Grab (BCA/GS)	045	D	9/4/2023	3:55:04	582825.21	4491063.65	40.5662068	-74.0215701	9.1	EW_23B1_GRAB_045D	Good sample.
Grab (BCA/GS)	047	A	9/4/2023	4:14:25	582718.54	4490468.9	40.5608602	-74.0229079	9.8	EW_23B1_GRAB_047A	Good sample.
Grab (BCA/GS)	047	B	9/4/2023	4:40:29	582723.06	4490470.32	40.5608725	-74.0228544	9.8	EW_23B1_GRAB_047B	Good sample.
Grab (BCA/GS)	047	C	9/4/2023	5:03:51	582719.49	4490470.24	40.5608722	-74.0228965	9.8	EW_23B1_GRAB_047C	Good sample.
Grab (BCA/GS)	049	A	9/4/2023	5:30:33	582764.77	4489861.69	40.5553861	-74.0224415	9.8	EW_23B1_GRAB_049A	Good sample.
Grab (BCA/GS)	049	B	9/4/2023	5:46:58	582766.23	4489860.18	40.5553723	-74.0224245	9.8	EW_23B1_GRAB_049B	Good sample.
Grab (BCA/GS)	049	C	9/4/2023	6:02:16	582761.02	4489865.64	40.555422	-74.0224853	9.8	EW_23B1_GRAB_049C	Good sample.
Grab (BCA/GS)	051	A	9/4/2023	6:27:52	582958.23	4489288.69	40.5502053	-74.0202321	14.9	N/A	Overpenetrated.
Grab (BCA/GS)	051	B	9/4/2023	6:33:21	582948.87	4489284.29	40.5501666	-74.0203432	14.9	N/A	No trigger.
Grab (BCA/GS)	051	C	9/4/2023	6:38:39	582951.99	4489290.72	40.5502242	-74.0203055	14.9	N/A	No trigger.
Grab (BCA/GS)	051	D	9/4/2023	6:48:55	582955.46	4489291.1	40.5502273	-74.0202644	14.9	N/A	Overpenetrated.
Grab (BCA/GS)	051	E	9/4/2023	6:53:26	582955.08	4489289.31	40.5502112	-74.0202692	14.9	N/A	Overpenetrated.
Grab (BCA/GS)	051	F	9/4/2023	6:57:57	582954.03	4489291.1	40.5502275	-74.0202813	14.9	N/A	No trigger.
Grab (BCA/GS)	051	G	9/4/2023	7:00:44	582950.65	4489287.77	40.5501978	-74.0203217	14.9	EW_23B1_GRAB_051G	Good sample.
Grab (BCA/GS)	051	H	9/4/2023	7:19:16	582951.71	4489288.22	40.5502018	-74.0203091	14.9	EW_23B1_GRAB_051H	
Grab (BCA/GS)	051	I	9/4/2023	7:32:37	582952.05	4489286.63	40.5501874	-74.0203053	14.9	EW_23B1_GRAB_051I	Good sample.
Grab (BCA/GS)	053	A	9/4/2023	7:51:51	583172.63	4488715.62	40.5450218	-74.0177757	13.4	EW_23B1_GRAB_053A	Good sample.
Grab (BCA/GS)	053	B	9/4/2023	8:04:49	583171	4488714.7	40.5450137	-74.0177951	13.4	EW_23B1_GRAB_053B	Good sample.
Grab (BCA/GS)	053	C	9/4/2023	8:16:42	583172.61	4488710.98	40.54498	-74.0177765	13.4	EW_23B1_GRAB_053C	Good sample.
Grab (BCA/GS)	055	A	9/4/2023	8:28:47	583411.83	4488153.85	40.5399376	-74.0150254	17.7	EW_23B1_GRAB_055A	Good sample.
Grab (BCA/GS)	055	B	9/4/2023	8:43:35	583410.25	4488157.24	40.5399683	-74.0150436	17.7	EW_23B1_GRAB_055B	Good sample.
Grab (BCA/GS)	055	C	9/4/2023	8:54:42	583410.22	4488155.5	40.5399526	-74.0150442	17.7	EW_23B1_GRAB_055C	Good sample.
Grab (BCA/GS)	057	A	9/4/2023	9:09:03	583647.56	4487601.56	40.534939	-74.0123152	20.1	EW_23B1_GRAB_057A	Good sample.
Grab (BCA/GS)	057	B	9/4/2023	9:19:42	583656.53	4487608.58	40.5350013	-74.0122084	20.1	EW_23B1_GRAB_057B	Good sample.
Grab (BCA/GS)	057	C	9/4/2023	9:31:04	583655.01	4487609.62	40.5350108	-74.0122262	20.1	EW_23B1_GRAB_057C	Good sample.
Grab (BCA/GS)	059	A	9/4/2023	9:46:58	584070.39	4487153.74	40.5308624	-74.0073828	12.5	EW_23B1_GRAB_059A	Good sample.

Sample Type	Station ID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth (m)	Sample ID	Comments
Grab (BCA/GS)	059	B	9/4/2023	10:07:29	584065.55	4487153.45	40.5308603	-74.00744	12.5	N/A	No trigger.
Grab (BCA/GS)	059	C	9/4/2023	10:11:51	584070.53	4487154.16	40.5308662	-74.0073811	12.5	N/A	Early trigger.
Grab (BCA/GS)	059	D	9/4/2023	10:18:50	584071.08	4487163.17	40.5309473	-74.0073734	12.5	N/A	Debris in grabber.
Grab (BCA/GS)	059	E	9/4/2023	10:26:09	584064.19	4487157.1	40.5308933	-74.0074555	12.5	N/A	No trigger.
Grab (BCA/GS)	059	F	9/4/2023	10:29:50	584072.54	4487161.65	40.5309335	-74.0073564	12.5	N/A	No trigger.
Grab (BCA/GS)	069	A	9/4/2023	10:58:51	586814.26	4486099.89	40.521087	-73.9751355	7.6	EW_23B1_GRAB_069A	Good sample.
Grab (BCA/GS)	069	B	9/4/2023	11:12:40	586814.41	4486103.4	40.5211186	-73.9751332	7.6	EW_23B1_GRAB_069B	Good sample.
Grab (BCA/GS)	069	C	9/4/2023	11:23:40	586809.99	4486104.81	40.5211318	-73.9751852	7.6	N/A	Overpenetrated.
Grab (BCA/GS)	069	D	9/4/2023	11:27:14	586812.9	4486104.8	40.5211314	-73.9751508	7.6	EW_23B1_GRAB_069D	Good sample.
Grab (BCA/GS)	067	A	9/4/2023	11:44:51	586226.65	4486254.92	40.5225448	-73.9820502	7.9	EW_23B1_GRAB_067A	Good sample.
Grab (BCA/GS)	067	B	9/4/2023	11:54:03	586224.58	4486255.67	40.5225517	-73.9820745	7.9	EW_23B1_GRAB_067B	Sample good.
Grab (BCA/GS)	067	C	9/4/2023	12:23:08	586223.62	4486258.02	40.522573	-73.9820855	7.9	EW_23B1_GRAB_067C	Sample good.
Grab (BCA/GS)	065	A	9/4/2023	12:39:18	585614.92	4486296.09	40.522979	-73.9892653	14.3	N/A	No good.
Grab (BCA/GS)	065	B	9/4/2023	12:42:29	585611.31	4486295.77	40.5229765	-73.989308	14.3	N/A	No good.
Grab (BCA/GS)	065	C	9/4/2023	12:45:26	585611.39	4486291.37	40.5229368	-73.9893076	14.3	N/A	No good.
Grab (BCA/GS)	065	D	9/4/2023	12:48:52	585614.42	4486294.29	40.5229628	-73.9892715	14.3	N/A	No good.
Grab (BCA/GS)	065	E	9/4/2023	12:52:27	585619.71	4486284.11	40.5228706	-73.9892104	14.3	EW_23B1_GRAB_065E	Sample good.
Grab (BCA/GS)	065	F	9/4/2023	13:14:06	585624.72	4486296.67	40.5229832	-73.9891496	14.3	EW_23B1_GRAB_065F	Sample good.
Grab (BCA/GS)	065	G	9/4/2023	13:33:35	585625.81	4486292.56	40.5229461	-73.9891372	14.3	EW_23B1_GRAB_065G	Sample good.
Grab (BCA/GS)	059	G	9/4/2023	13:57:20	584067.18	4487155.5	40.5308786	-74.0074205	12.5	N/A	No good.
Grab (BCA/GS)	059	H	9/4/2023	14:00:15	584057.3	4487153.27	40.5308595	-74.0075374	12.5	N/A	
Grab (BCA/GS)	059	I	9/4/2023	14:15:12	584063.21	4487155.37	40.5308778	-74.0074673	12.5	EW_23B1_GRAB_059I	Sample good.
Grab (BCA/GS)	059	J	9/4/2023	14:33:42	584062.89	4487156.4	40.5308871	-74.007471	12.5	EW_23B1_GRAB_059J	Sample good.
Grab (BCA/GS)	061	A	9/4/2023	14:54:46	584492.03	4486728.48	40.526989	-74.002462	20.1	EW_23B1_GRAB_061A	Sample good.
Grab (BCA/GS)	061	B	9/4/2023	15:16:56	584499.38	4486727.59	40.5269802	-74.0023754	20.1	EW_23B1_GRAB_061B	Sample good.
Grab (BCA/GS)	061	C	9/4/2023	15:39:43	584499.38	4486730.13	40.5270031	-74.002375	20.1	N/A	No good.
Grab (BCA/GS)	061	D	9/4/2023	15:44:35	584495.86	4486723.74	40.5269459	-74.0024174	20.1	EW_23B1_GRAB_061D	Sample good.
Grab (BCA/GS)	063	A	9/4/2023	16:12:21	585021.21	4486421.71	40.5241716	-73.9962565	19.2	N/A	No good.
Grab (BCA/GS)	063	B	9/4/2023	16:16:56	585020.49	4486425.91	40.5242095	-73.9962644	19.2	EW_23B1_GRAB_063B	Sample good.
Grab (BCA/GS)	063	C	9/4/2023	16:40:27	585021	4486416.38	40.5241236	-73.9962597	19.2	N/A	No good.
Grab (BCA/GS)	063	D	9/4/2023	16:45:37	585021.11	4486419.97	40.524156	-73.9962579	19.2	EW_23B1_GRAB_063D	Sample good.
Grab (BCA/GS)	063	E	9/4/2023	17:13:07	585020.04	4486426.8	40.5242176	-73.9962696	19.2	N/A	No good.
Grab (BCA/GS)	063	F	9/4/2023	17:16:30	585020.74	4486424.86	40.5242	-73.9962616	19.2	N/A	No good.
Grab (BCA/GS)	063	G	9/4/2023	17:19:53	585020.57	4486426.24	40.5242125	-73.9962635	19.2	N/A	No good.
Grab (BCA/GS)	063	H	9/4/2023	17:23:36	585025.96	4486428.08	40.5242285	-73.9961996	19.2	EW_23B1_GRAB_063H	Sample good.
Grab (BCA/GS)	071	A	9/4/2023	18:21:12	587373.01	4485891.64	40.5191525	-73.968569	5.5	EW_23B1_GRAB_071A	Sample good.
Grab (BCA/GS)	071	B	9/4/2023	18:50:08	587374.19	4485892.29	40.5191582	-73.968555	5.5	N/A	No good.
Grab (BCA/GS)	071	C	9/4/2023	18:52:16	587376.57	4485889.08	40.5191291	-73.9685274	5.5	N/A	No good.
Grab (BCA/GS)	071	D	9/4/2023	18:54:15	587378.2	4485884.98	40.519092	-73.9685087	5.5	N/A	No good.
Grab (BCA/GS)	071	E	9/4/2023	18:57:41	587377.64	4485885.33	40.5190952	-73.9685153	5.5	EW_23B1_GRAB_071E	Sample good.
Grab (BCA/GS)	071	F	9/4/2023	19:13:12	587379.66	4485887.43	40.5191139	-73.9684911	5.5	N/A	No good.
Grab (BCA/GS)	071	G	9/4/2023	19:15:55	587377.72	4485885.73	40.5190988	-73.9685143	5.5	N/A	No good.
Grab (BCA/GS)	071	H	9/4/2023	19:18:03	587381.42	4485887.47	40.5191141	-73.9684703	5.5	EW_23B1_GRAB_071H	Sample good.
Grab (BCA/GS)	073	A	9/4/2023	19:40:55	587886.78	4485554.75	40.5160637	-73.9625517	6.4	EW_23B1_GRAB_073A	Sample good.
Grab (BCA/GS)	073	B	9/4/2023	20:06:44	587892.41	4485553.26	40.5160496	-73.9624855	6.4	EW_23B1_GRAB_073B	Sample good.
Grab (BCA/GS)	073	C	9/4/2023	20:42:09	587892.58	4485556.01	40.5160744	-73.9624831	6.4	EW_23B1_GRAB_073C	Sample good.

Sample Type	Station ID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth (m)	Sample ID	Comments
Grab (BCA/GS)	075	A	9/4/2023	21:13:29	588351.35	4485164.05	40.5124951	-73.9571232	7.0	EW_23B1_GRAB_075A	Sample good.
Grab (BCA/GS)	075	B	9/4/2023	21:38:44	588351.16	4485163.74	40.5124923	-73.9571255	7.0	EW_23B1_GRAB_075B	Sample good.
Grab (BCA/GS)	075	C	9/4/2023	22:02:00	588349.13	4485162.96	40.5124855	-73.9571495	7.0	EW_23B1_GRAB_075C	Sample good.
Grab (BCA/GS)	077	A	9/4/2023	22:25:25	588898.83	4484896.78	40.5100291	-73.9506994	7.3	EW_23B1_GRAB_077A	Sample good.
Grab (BCA/GS)	077	B	9/4/2023	22:50:44	588901.72	4484898.14	40.5100411	-73.9506651	7.3	EW_23B1_GRAB_077B	Sample good.
Grab (BCA/GS)	077	C	9/4/2023	23:20:17	588901.66	4484898.53	40.5100446	-73.9506658	7.3	EW_23B1_GRAB_077C	Sample good.
Grab (BCA/GS)	079	A	9/4/2023	23:44:08	589481.53	4484723.1	40.5084021	-73.9438473	8.8	EW_23B1_GRAB_079A	Sample good.
Grab (BCA/GS)	079	B	9/5/2023	0:09:23	589482.56	4484722.31	40.5083949	-73.9438352	8.8	N/A	Overpenetrated.
Grab (BCA/GS)	079	C	9/5/2023	0:12:56	589479.75	4484724.06	40.5084109	-73.9438681	8.8	EW_23B1_GRAB_079C	Good sample.
Grab (BCA/GS)	079	D	9/5/2023	0:36:10	589478.16	4484719.95	40.5083741	-73.9438875	8.8	EW_23B1_GRAB_079D	Good sample.
Grab (BCA/GS)	081	A	9/5/2023	1:01:36	590036.06	4484471.83	40.5060788	-73.9373389	11.3	EW_23B1_GRAB_081A	Good sample.
Grab (BCA/GS)	081	B	9/5/2023	1:11:17	590030.4	4484472.27	40.5060834	-73.9374057	11.3	EW_23B1_GRAB_081B	Good sample.
Grab (BCA/GS)	081	C	9/5/2023	1:21:47	590028.68	4484474.32	40.506102	-73.9374257	11.3	EW_23B1_GRAB_081C	Good sample.
Grab (BCA/GS)	083	A	9/5/2023	1:34:03	590589.88	4484224.3	40.5037889	-73.9308389	11.9	EW_23B1_GRAB_083A	Good sample.
Grab (BCA/GS)	083	B	9/5/2023	1:43:20	590587.27	4484221.51	40.503764	-73.9308701	11.9	EW_23B1_GRAB_083B	Good sample.
Grab (BCA/GS)	083	C	9/5/2023	1:51:07	590587.3	4484229.23	40.5038336	-73.9308686	11.9	EW_23B1_GRAB_083C	Good sample.
Grab (BCA/GS)	085	A	9/5/2023	2:10:45	591142.96	4483981.02	40.501537	-73.9243474	12.2	EW_23B1_GRAB_085A	Good sample.
Grab (BCA/GS)	085	B	9/5/2023	2:23:20	591152.27	4483978.24	40.5015109	-73.924238	12.2	EW_23B1_GRAB_085B	Good sample.
Grab (BCA/GS)	085	C	9/5/2023	2:35:02	591143.44	4483974.37	40.501477	-73.9243427	12.2	EW_23B1_GRAB_085C	Good sample.
Grab (BCA/GS)	087	A	9/5/2023	2:52:31	591701.07	4483726.44	40.4991824	-73.9177987	11.6	EW_23B1_GRAB_087A	Good sample.
Grab (BCA/GS)	087	B	9/5/2023	3:03:41	591704.54	4483733.62	40.4992467	-73.9177567	11.6	EW_23B1_GRAB_087B	Good sample.
Grab (BCA/GS)	087	C	9/5/2023	3:13:16	591700.15	4483728.2	40.4991983	-73.9178093	11.6	EW_23B1_GRAB_087C	Good sample.
Grab (BCA/GS)	089	A	9/5/2023	3:26:10	592258.4	4483479.02	40.496892	-73.9112586	11.6	N/A	Early trigger.
Grab (BCA/GS)	089	B	9/5/2023	3:30:34	592259.6	4483473.56	40.4968427	-73.9112452	11.6	EW_23B1_GRAB_089B	Good sample.
Grab (BCA/GS)	089	C	9/5/2023	3:48:01	592261.26	4483483.74	40.4969342	-73.9112241	11.6	N/A	No trigger.
Grab (BCA/GS)	089	D	9/5/2023	3:51:09	592257.9	4483483.53	40.4969327	-73.9112638	11.6	EW_23B1_GRAB_089D	Good sample.
Grab (BCA/GS)	089	E	9/5/2023	4:04:54	592260.39	4483484.54	40.4969415	-73.9112343	11.6	EW_23B1_GRAB_089E	Good sample.
Grab (BCA/GS)	091	A	9/5/2023	4:22:44	592813.96	4483222.95	40.4945235	-73.904741	11.9	EW_23B1_GRAB_091A	Good sample.
Grab (BCA/GS)	091	B	9/5/2023	4:39:21	592816.7	4483229.21	40.4945796	-73.9047078	11.9	EW_23B1_GRAB_091B	Good sample.
Grab (BCA/GS)	091	C	9/5/2023	4:50:15	592815.03	4483228.13	40.4945701	-73.9047277	11.9	N/A	Debris in grabber.
Grab (BCA/GS)	091	D	9/5/2023	4:53:00	592817.25	4483224.37	40.494536	-73.904702	11.9	N/A	Shell trapped in grabber door.
Grab (BCA/GS)	091	E	9/5/2023	4:56:00	592810.02	4483232.8	40.4946127	-73.9047861	11.9	EW_23B1_GRAB_091E	Good sample.

Sample Type	Station ID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth (m)	Sample ID	Comments
Grab (Chem)	002	A	9/6/2023	1:26:38	583353.29	4501808.72	40.6629401	-74.0139106	12.8	EW_23B1_CHEM_002	Accepted.
Grab (Chem)	005	A	9/5/2023	17:42:17	582650.89	4501243.71	40.6579215	-74.0222933	11.9	EW_23B1_CHEM_005	Sample Accepted.
Grab (Chem)	009	A	9/5/2023	17:00:43	581883.19	4500301.63	40.6495122	-74.0314962	11.6	EW_23B1_CHEM_009	Sample Accepted.
Grab (Chem)	013	A	9/5/2023	19:16:26	581209.94	4499289.38	40.6404609	-74.039589	13.7	EW_23B1_CHEM_013	Sample Accepted.
Grab (Chem)	017	A	9/5/2023	20:13:01	580873.91	4498129.73	40.6300482	-74.0437115	12.8	EW_23B1_CHEM_017	Sample Accepted.
Grab (Chem)	021	A	9/5/2023	23:03:11	580838.28	4496959.45	40.6195103	-74.044283	11.0	N/A	Not Accepted.
Grab (Chem)	021	B	9/5/2023	23:07:38	580825.57	4496962.19	40.6195363	-74.0444329	11.0	N/A	Not Accepted.
Grab (Chem)	021	C	9/5/2023	23:11:44	580830.77	4496953.91	40.6194612	-74.0443725	11.0	N/A	Not Accepted.
Grab (Chem)	021	D	9/5/2023	23:15:59	580838.4	4496960.43	40.6195192	-74.0442815	11.0	N/A	Not Accepted.
Grab (Chem)	021	E	9/5/2023	23:20:18	580833.16	4496967.27	40.6195813	-74.0443425	11.0	EW_23B1_CHEM_021	Sample Accepted.
Grab (Chem)	025	A	9/5/2023	20:58:35	581122	4495779.83	40.608857	-74.0410811	20.1	EW_23B1_CHEM_025	Sample Accepted.
Grab (Chem)	029	A	9/5/2023	21:51:11	581795	4494880.04	40.6006858	-74.0332436	16.2	EW_23B1_CHEM_029	Sample Accepted.
Grab (Chem)	033	A	9/5/2023	14:51:47	582936.02	4494534.26	40.5974575	-74.019805	8.8	N/A	Not Accepted.
Grab (Chem)	033	B	9/5/2023	14:54:26	582938.12	4494534.2	40.5974567	-74.0197802	8.8	N/A	Not Accepted.
Grab (Chem)	033	C	9/5/2023	14:58:42	582939.69	4494539.16	40.5975013	-74.019761	8.8	EW_23B1_CHEM_033	Sample Accepted.
Grab (Chem)	037	A	9/5/2023	13:15:39	583414	4493422.98	40.5873995	-74.0143037	10.1	N/A	
Grab (Chem)	037	B	9/5/2023	13:26:54	583411.44	4493430.5	40.5874675	-74.014333	10.1	N/A	No good.
Grab (Chem)	037	C	9/5/2023	13:29:35	583407.94	4493424.73	40.5874159	-74.0143751	10.1	EW_23B1_CHEM_037	Sample Accepted.
Grab (Chem)	037	D	9/5/2023	13:44:53	583414.06	4493426.52	40.5874314	-74.0143025	10.1	EW_23B1_CHEM_037	Sample Accepted for MS/MSD.
Grab (Chem)	041	A	9/5/2023	11:50:47	583141.34	4492240.03	40.5767715	-74.0176812	8.2	N/A	Debris.
Grab (Chem)	041	B	9/5/2023	11:53:29	583135.6	4492241.83	40.5767882	-74.0177487	8.2	N/A	Debris.
Grab (Chem)	041	C	9/5/2023	11:56:14	583144.39	4492241.5	40.5767844	-74.0176449	8.2	N/A	Debris.
Grab (Chem)	041	D	9/5/2023	12:00:13	583137.41	4492228.21	40.5766654	-74.0177291	8.2	EW_23B1_CHEM_041	Accepted.
Grab (Chem)	045	A	9/5/2023	11:02:55	582819.8	4491064.45	40.5662145	-74.0216339	10.1	EW_23B1_CHEM_045	Accepted.
Grab (Chem)	049	A	9/5/2023	10:27:00	582766.71	4489857.64	40.5553494	-74.0224191	11.3	N/A	Overpenetrated.
Grab (Chem)	049	B	9/5/2023	10:31:04	582765.02	4489863.69	40.555404	-74.0224383	11.3	EW_23B1_CHEM_049	Accepted.
Grab (Chem)	092	A	9/5/2023	10:11:50	582798.98	4489862.26	40.5553878	-74.0220374	11.3	EW_23B1_CHEM_092	Accepted.
Grab (Chem)	093	A	9/5/2023	9:46:04	582737.06	4489865.05	40.5554191	-74.0227683	11.3	EW_23B1_CHEM_093	Accepted.
Grab (Chem)	094	A	9/5/2023	10:48:02	582845.65	4491055.45	40.5661309	-74.0213297	10.1	EW_23B1_CHEM_094	Accepted.
Grab (Chem)	095	A	9/5/2023	11:14:12	582786.6	4491069.42	40.5662626	-74.0220254	10.1	EW_23B1_CHEM_095	Accepted.
Grab (Chem)	096	A	9/5/2023	11:41:53	583168.67	4492229.87	40.5766772	-74.0173596	8.2	EW_23B1_CHEM_096	Equipment blanked; Accepted.
Grab (Chem)	097	A	9/5/2023	12:17:40	583110.74	4492248.48	40.5768506	-74.0180415	8.2	N/A	
Grab (Chem)	097	B	9/5/2023	12:49:29	583111	4492248.91	40.5768545	-74.0180384	8.2	EW_23B1_CHEM_097	Sample good.
Grab (Chem)	098	A	9/5/2023	13:56:05	583386.34	4493421.54	40.5873893	-74.0146307	10.4	N/A	Not Accepted.
Grab (Chem)	098	B	9/5/2023	14:01:59	583384.35	4493415.88	40.5873385	-74.014655	10.4	EW_23B1_CHEM_098	Sample Accepted.
Grab (Chem)	099	A	9/5/2023	13:02:58	583444.15	4493430.22	40.5874617	-74.0139465	8.2	EW_23B1_CHEM_099	Sample Accepted.
Grab (Chem)	100	A	9/5/2023	14:21:33	582961.76	4494556.26	40.5976531	-74.0194979	9.1	N/A	Overpenetrated.
Grab (Chem)	100	B	9/5/2023	14:27:41	582958.27	4494559.37	40.5976814	-74.0195388	9.1	EW_23B1_CHEM_100	Sample Accepted.
Grab (Chem)	100	C	9/5/2023	14:39:30	582960.27	4494561.34	40.597699	-74.0195149	9.1	EW_23B1_CHEM_DUP01	Field duplicate.
Grab (Chem)	101	A	9/5/2023	15:09:20	582916.45	4494515.26	40.5972883	-74.0200388	8.8	N/A	Not Accepted.
Grab (Chem)	101	B	9/5/2023	15:14:09	582915.2	4494518.43	40.597317	-74.0200531	8.8	N/A	Overpenetrated.
Grab (Chem)	101	C	9/5/2023	15:24:21	582917.13	4494517.67	40.5973099	-74.0200304	8.8	EW_23B1_CHEM_101	
Grab (Chem)	102	A	9/5/2023	15:45:12	581804.21	4494908.8	40.6009439	-74.0331311	15.9	N/A	Not Accepted.
Grab (Chem)	102	B	9/5/2023	15:49:01	581806.59	4494902.91	40.6008906	-74.0331037	15.9	N/A	Not Accepted.
Grab (Chem)	102	C	9/5/2023	15:59:34	581804.5	4494900.12	40.6008657	-74.0331288	15.9	N/A	Not Accepted.
Grab (Chem)	102	D	9/5/2023	21:29:45	581807.83	4494908.35	40.6009395	-74.0330883	15.5	EW_23B1_CHEM_102	Sample Accepted.

Sample Type	Station ID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth (m)	Sample ID	Comments
Grab (Chem)	103	A	9/5/2023	22:05:36	581787.64	4494847.13	40.6003901	-74.0333349	16.5	EW_23B1_CHEM_103	Sample Accepted.
Grab (Chem)	103	B	9/5/2023	22:18:24	581785.88	4494851.78	40.6004321	-74.0333551	16.5	EW_23B1_CHEM_DUP03	Sample Accepted. Field duplicate.
Grab (Chem)	104	A	9/5/2023	20:45:26	581150.41	4495794.26	40.6089842	-74.0407435	19.8	EW_23B1_CHEM_104	Sample Accepted.
Grab (Chem)	105	A	9/5/2023	21:11:53	581091.06	4495772.2	40.6087913	-74.0414478	25.3	EW_23B1_CHEM_105	Sample Accepted.
Grab (Chem)	106	A	9/5/2023	22:43:14	580867.89	4496962.12	40.6195315	-74.0439327	10.4	N/A	Not Accepted.
Grab (Chem)	106	B	9/5/2023	22:49:35	580866.62	4496970.48	40.6196069	-74.0439466	10.4	EW_23B1_CHEM_106	Sample Accepted.
Grab (Chem)	107	A	9/5/2023	23:31:49	580803.59	4496957.09	40.6194925	-74.0446934	12.8	N/A	Not Accepted.
Grab (Chem)	107	B	9/5/2023	23:35:43	580812.05	4496962.8	40.6195431	-74.0445927	12.8	EW_23B1_CHEM_107	Sample Accepted.
Grab (Chem)	108	A	9/5/2023	19:46:30	580900.3	4498117.16	40.6299324	-74.0434011	11.6	N/A	Not Accepted.
Grab (Chem)	108	B	9/5/2023	19:48:31	580901.12	4498118.57	40.629945	-74.0433912	11.6	N/A	Not Accepted.
Grab (Chem)	108	C	9/5/2023	19:49:44	580902.43	4498118.03	40.62994	-74.0433758	11.6	N/A	Not Accepted.
Grab (Chem)	108	D	9/5/2023	19:53:17	580901.12	4498111.38	40.6298803	-74.0433922	11.6	N/A	Not Accepted.
Grab (Chem)	108	E	9/5/2023	19:56:57	580900.3	4498108.4	40.6298535	-74.0434022	11.6	N/A	Not Accepted.
Grab (Chem)	108	F	9/5/2023	19:59:56	580897.05	4498111.58	40.6298825	-74.0434402	11.6	EW_23B1_CHEM_108	Sample Accepted.
Grab (Chem)	109	A	9/5/2023	20:27:00	580852.28	4498150.78	40.63024	-74.0439645	13.4	EW_23B1_CHEM_109	Sample Accepted.
Grab (Chem)	110	A	9/5/2023	18:51:07	581243.98	4499283.92	40.6404083	-74.0391872	12.5	EW_23B1_CHEM_110	Sample Accepted.
Grab (Chem)	110	B	9/5/2023	19:05:40	581243.42	4499284.05	40.6404096	-74.0391938	12.2	EW_23B1_CHEM_DUP02	Sample Accepted. Field duplicate.
Grab (Chem)	111	A	9/5/2023	19:29:23	581181.17	4499301.08	40.6405691	-74.0399277	14.6	N/A	Not Accepted.
Grab (Chem)	111	B	9/5/2023	19:31:42	581184.39	4499300.51	40.6405636	-74.0398897	14.6	EW_23B1_CHEM_111	Sample Accepted.
Grab (Chem)	112	A	9/5/2023	16:45:56	581905.18	4500290.36	40.6494085	-74.0312376	11.6	N/A	Not Accepted.
Grab (Chem)	112	B	9/5/2023	16:50:27	581897.15	4500283.54	40.6493479	-74.0313335	11.6	EW_23B1_CHEM_112	Sample Accepted.
Grab (Chem)	113	A	9/5/2023	17:12:28	581846.69	4500316.56	40.6496503	-74.0319259	11.6	EW_23B1_CHEM_113	Sample Accepted.
Grab (Chem)	114	A	9/5/2023	17:29:46	582679.19	4501223.4	40.6577357	-74.0219613	12.2	EW_23B1_CHEM_114	Sample Accepted.
Grab (Chem)	115	A	9/5/2023	17:57:03	582628.84	4501255.93	40.6580337	-74.0225525	11.6	EW_23B1_CHEM_115	Sample Accepted.
Grab (Chem)	115	B	9/5/2023	18:09:53	582629.09	4501258.93	40.6580607	-74.0225492	11.6	EW_23B1_CHEM_115	Sample Accepted for MSD.
Grab (Chem)	116	A	9/6/2023	0:41:46	583352.66	4501776.9	40.6626536	-74.0139223	12.8	EW_23B1_CHEM_116	Accepted.
Grab (Chem)	116	B	9/6/2023	0:57:45	583359.7	4501780.91	40.662689	-74.0138385	12.8	N/A	MSD duplicate. Top not latched.
Grab (Chem)	116	C	9/6/2023	1:02:54	583352.73	4501776.98	40.6626543	-74.0139215	12.8	EW_23B1_CHEM_DUP04	Accepted. MS/MSD.
Grab (Chem)	117	A	9/6/2023	1:41:03	583351	4501838.34	40.6632071	-74.0139338	12.8	EW_23B1_CHEM_117	Accepted.

Sample Type	Station ID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth (m)	Comments
CTD	019	A	8/31/2023	23:13:03	580759.49	4497566.67	40.6249876	-74.0451365	13.1	
CTD	012	A	9/1/2023	0:26:33	581342.28	4499561.83	40.6429019	-74.0379889	14.9	
CTD	011	A	9/1/2023	0:49:00	581515.97	4499813.05	40.6451477	-74.0359024	13.1	
CTD	010	A	9/1/2023	1:11:55	581696.01	4500058.31	40.6473391	-74.0337415	11.9	
CTD	009	A	9/1/2023	1:28:40	581877.64	4500304.79	40.6495412	-74.0315614	11.3	
CTD	008	A	9/1/2023	1:44:58	582069.94	4500539.92	40.6516401	-74.0292566	11.6	
CTD	007	A	9/1/2023	2:03:14	582262.99	4500773.87	40.6537281	-74.0269428	12.5	
CTD	006	A	9/1/2023	2:22:56	582456.58	4501010.4	40.6558394	-74.0246222	12.2	
CTD	005	A	9/1/2023	3:03:51	582654.61	4501242.96	40.6579143	-74.0222494	11.3	
CTD	004	A	9/1/2023	3:19:17	582854.4	4501473.47	40.6599706	-74.019856	11.3	
CTD	003	A	9/1/2023	3:37:01	583077.34	4501677.05	40.6617819	-74.0171921	11.3	
CTD	002	A	9/1/2023	4:06:37	583354.69	4501808.64	40.6629392	-74.0138941	11.0	
CTD	001	A	9/1/2023	4:22:28	583492.15	4501760.83	40.6624947	-74.0122745	6.4	
CTD	013	A	9/1/2023	5:43:42	581210.27	4499292.2	40.6404862	-74.0395847	13.7	
CTD	014	A	9/1/2023	6:06:33	581096.9	4499012.13	40.6379746	-74.0409614	13.1	
CTD	015	A	9/1/2023	6:32:19	581024.85	4498713.06	40.6352878	-74.0418518	13.1	
CTD	016	A	9/1/2023	6:56:50	580982.39	4498411.71	40.6325775	-74.0423927	12.2	
CTD	017	A	9/1/2023	7:20:39	580878.3	4498128.89	40.6300402	-74.0436597	13.7	
CTD	018	A	9/1/2023	7:40:44	580727.12	4497869.83	40.6277215	-74.0454803	14.0	
CTD	020	A	9/1/2023	8:28:04	580791.14	4497262.61	40.6222457	-74.0448014	12.2	
CTD	029	A	9/1/2023	9:08:37	581792.21	4494874.49	40.6006361	-74.0332773	17.7	
CTD	030	A	9/1/2023	9:30:50	582092.26	4494817.05	40.6000889	-74.0297389	12.8	
CTD	031	A	9/1/2023	9:48:50	582396.71	4494794.4	40.5998546	-74.026144	11.3	
CTD	032	A	9/1/2023	10:05:23	582689.98	4494702.99	40.599002	-74.0226903	10.4	
CTD	033	A	9/1/2023	10:25:21	582937.62	4494536.13	40.5974742	-74.0197858	9.8	
CTD	028	A	9/1/2023	11:21:03	581504.72	4494969.38	40.6015192	-74.0366625	27.4	
CTD	027	A	9/1/2023	11:43:34	581329.5	4495203.2	40.6036426	-74.0387031	31.1	
CTD	026	A	9/1/2023	12:05:35	581227.46	4495492.02	40.6062542	-74.0398718	29.6	
CTD	025	A	9/1/2023	12:30:07	581125.87	4495780.86	40.6088659	-74.0410352	24.0	
CTD	024	A	9/1/2023	12:47:43	581034.01	4496069.76	40.6114772	-74.0420838	17.4	
CTD	021	A	9/1/2023	16:36:49	580839.72	4496961.99	40.6195331	-74.0442657	9.8	
CTD	022	A	9/1/2023	16:49:08	580898.29	4496666.14	40.6168624	-74.0436113	10.4	
CTD	023	A	9/1/2023	17:00:57	580961.21	4496367.77	40.6141687	-74.0429059	13.1	
CTD	034	A	9/1/2023	19:26:57	583111.69	4494290.59	40.595245	-74.0177612	8.8	
CTD	035	A	9/1/2023	19:44:33	583234.59	4494007.76	40.592685	-74.0163463	9.1	

Sample Type	Station ID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth (m)	Comments
CTD	036	A	9/1/2023	20:01:41	583328.89	4493713.79	40.5900276	-74.0152709	9.8	
CTD	037	A	9/1/2023	20:28:28	583419.06	4493423.11	40.5874002	-74.0142439	10.1	
CTD	038	A	9/1/2023	20:44:35	583370.39	4493123.69	40.584708	-74.0148585	10.7	
CTD	039	A	9/1/2023	21:29:13	583294.03	4492828.19	40.582054	-74.0157997	8.5	
CTD	040	A	9/1/2023	21:46:07	583217.75	4492530.01	40.5793758	-74.0167402	8.8	
CTD	041	A	9/1/2023	22:04:13	583140.03	4492238.85	40.576761	-74.0176968	8.2	
CTD	042	A	9/1/2023	22:22:30	583057.69	4491947.58	40.5741456	-74.0187078	9.8	
CTD	043	A	9/1/2023	22:39:03	582975.98	4491651.52	40.571487	-74.019712	11.3	
CTD	044	A	9/1/2023	22:59:40	582897.48	4491358.89	40.568859	-74.0206777	10.4	
CTD	045	A	9/1/2023	23:47:28	582822.4	4491064.51	40.5662148	-74.0216032	10.1	
CTD	046	A	9/2/2023	0:03:31	582743.91	4490776.77	40.5636308	-74.022568	10.4	
CTD	047	A	9/2/2023	0:20:21	582719.71	4490469.63	40.5608667	-74.022894	11.3	
CTD	048	A	9/2/2023	0:37:50	582729.06	4490162.67	40.5581007	-74.0228238	11.0	
CTD	049	A	9/2/2023	0:52:25	582767.69	4489859.02	40.5553617	-74.0224074	10.7	
CTD	050	A	9/2/2023	1:08:35	582852.07	4489571.89	40.5527669	-74.0214485	10.7	
CTD	051	A	9/2/2023	1:26:00	582956.75	4489283.47	40.5501585	-74.0202502	15.2	
CTD	052	A	9/2/2023	1:42:28	583066.6	4488999.99	40.547594	-74.0189903	15.2	
CTD	053	A	9/2/2023	1:56:59	583169.81	4488713.06	40.5449991	-74.0178093	14.3	
CTD	054	A	9/2/2023	2:12:02	583313.31	4488444.16	40.5425625	-74.0161503	17.7	
CTD	055	A	9/2/2023	2:28:04	583408.96	4488156.26	40.5399596	-74.015059	18.9	
CTD	068	A	9/2/2023	4:07:03	586518.6	4486191.26	40.5219409	-73.9786128	6.1	
CTD	069	A	9/2/2023	4:28:12	586812	4486104.39	40.5211278	-73.9751615	5.8	
CTD	070	A	9/2/2023	4:41:46	587103.62	4486019.5	40.5203325	-73.9717311	5.5	
CTD	071	A	9/2/2023	4:55:02	587378.34	4485891.89	40.5191542	-73.9685061	5.2	
CTD	067	A	9/2/2023	5:15:42	586222.73	4486256.07	40.5225555	-73.9820963	6.1	
CTD	066	A	9/2/2023	5:29:37	585916.52	4486277.71	40.5227822	-73.9857078	8.5	
CTD	065	A	9/2/2023	5:45:22	585616.43	4486295.59	40.5229743	-73.9892476	12.2	
CTD	064	A	9/2/2023	5:53:29	585312.99	4486325.07	40.5232712	-73.9928253	17.4	
CTD	063	A	9/2/2023	6:27:00	585023.22	4486424.14	40.5241933	-73.9962325	18.9	
CTD	062	A	9/2/2023	6:50:19	584751.57	4486564.02	40.5254811	-73.9994203	18.0	
CTD	061	A	9/2/2023	7:17:58	584495.58	4486725.99	40.5269662	-74.0024205	18.3	
CTD	072	A	9/2/2023	8:24:24	587633.91	4485726.47	40.5176372	-73.9655125	6.7	
CTD	073	A	9/2/2023	8:41:36	587886.49	4485554.18	40.5160586	-73.9625552	7.3	
CTD	074	A	9/2/2023	8:57:37	588108.79	4485351.25	40.5142071	-73.9599598	7.3	
CTD	075	A	9/2/2023	9:15:19	588347.98	4485166.29	40.5125156	-73.9571626	7.9	

Sample Type	Station ID	Replicate	Date	Time	X_NAD83_UTM18N_m	Y_NAD83_UTM18N_m	Latitude_NAD83_N	Longitude_NAD83_W	Depth (m)	Comments
CTD	076	A	9/2/2023	9:34:44	588620.86	4485026.29	40.5112255	-73.9539617	8.2	
CTD	077	A	9/2/2023	9:56:38	588896.61	4484901.35	40.5100705	-73.950725	7.6	
CTD	078	A	9/2/2023	10:16:08	589185.72	4484811.05	40.5092261	-73.9473258	8.2	
CTD	079	A	9/2/2023	10:31:19	589479.44	4484725.96	40.5084281	-73.9438715	9.1	
CTD	080	A	9/2/2023	10:48:22	589758.04	4484599.93	40.5072628	-73.9406016	10.4	
CTD	060	A	9/2/2023	11:31:06	584282.1	4486944.81	40.528959	-74.0049113	17.4	
CTD	059	A	9/2/2023	11:42:53	584066.95	4487160.59	40.5309245	-74.0074225	12.8	
CTD	058	A	9/2/2023	11:56:30	583851.08	4487375.35	40.5328808	-74.0099424	16.8	
CTD	058	B	9/2/2023	11:58:30	583852.81	4487375.26	40.5328798	-74.009922	16.8	No good.
CTD	057	A	9/2/2023	12:12:42	583649.3	4487607.69	40.534994	-74.0122939	20.4	
CTD	056	A	9/2/2023	12:38:13	583500.54	4487865.85	40.5373344	-74.014016	20.4	
CTD	081	A	9/2/2023	13:50:16	590034.92	4484480.16	40.5061539	-73.9373512	10.1	
CTD	082	A	9/2/2023	14:04:17	590311.83	4484354.65	40.5049933	-73.9341014	10.7	
CTD	083	A	9/2/2023	14:19:33	590590.7	4484228.43	40.503826	-73.9308286	11.0	
CTD	084	A	9/2/2023	14:35:12	590871.02	4484103.29	40.5026681	-73.9275387	11.3	
CTD	085	A	9/2/2023	14:53:44	591148.34	4483980.34	40.5015303	-73.924284	11.0	
CTD	086	A	9/2/2023	15:13:31	591424.47	4483855.89	40.5003789	-73.9210437	11.0	
CTD	087	A	9/2/2023	15:39:30	591701.82	4483727.42	40.4991911	-73.9177897	10.7	
CTD	088	A	9/2/2023	15:56:09	591981.16	4483605.57	40.4980627	-73.9145113	10.7	
CTD	089	A	9/2/2023	16:14:35	592264.46	4483478.17	40.4968837	-73.9111872	10.7	
CTD	090	A	9/2/2023	16:33:30	592536.91	4483355.4	40.4957475	-73.9079905	11.3	
CTD	091	A	9/2/2023	16:57:13	592815.61	4483235	40.4946319	-73.9047198	11.3	
CTD Temperature	034	A	9/3/2023	21:27:41	583114.85	4494286.66	40.5952093	-74.0177244	8.5	Temperature only.
CTD Temperature	035	A	9/3/2023	21:34:09	583231.58	4494007.98	40.5926873	-74.0163818	8.8	Temperature only.
CTD Temperature	036	A	9/3/2023	22:27:17	583329.61	4493717.83	40.5900639	-74.0152618	9.8	Temperature only.
CTD Temperature	037	A	9/3/2023	22:33:37	583415.54	4493426.52	40.5874312	-74.014285	10.1	Temperature only.
CTD Temperature	038	A	9/3/2023	23:23:22	583367.57	4493123.72	40.5847086	-74.0148918	10.7	Temperature only.
CTD Temperature	039	A	9/3/2023	23:30:21	583293.46	4492831.09	40.5820802	-74.0158061	7.9	Temperature only.
CTD Temperature	040	A	9/4/2023	0:53:19	583218.97	4492535.19	40.5794223	-74.0167252	8.5	Temperature only.
CTD Temperature	041	A	9/4/2023	1:07:19	583138.14	4492241.31	40.5767833	-74.0177188	7.9	Temperature only.
CTD Temperature	042	A	9/4/2023	2:02:02	583059.39	4491948.45	40.5741533	-74.0186876	8.8	Temperature only.
CTD Temperature	043	A	9/4/2023	2:13:55	582978.96	4491654.63	40.5715147	-74.0196764	9.8	Temperature only.
CTD Temperature	044	A	9/4/2023	2:55:43	582901.31	4491359.8	40.5688668	-74.0206323	9.1	Temperature only.

Appendix B – SPI/PV, Sediment Grab, and Water Column Profile Field Logs

Notes:
GS=Grain Size
BCA=Benthic Community Analysis
MS/MSD=Matrix Spike/Matrix Spike Duplicate
FC=Frame Count

Sample Type	Station ID	Replicate	Date	Time	Frame	SPI Stop Collar (in)	SPI Weights per Side (#)	Comments
SPI/PV	001	A	8/31/2023	22:05:00	013	14	3	SPI: ISO 100, F/5.6, 1/250s; PV: ISO 500, F/13, 1/15s. Over-penetrated.
SPI/PV	001	B	8/31/2023	22:06:30	014	14	3	
SPI/PV	001	C	8/31/2023	22:07:58	015	14	3	Over-penetrated.
SPI/PV	001	D	8/31/2023	22:09:50	016	14	3	On deck, download, turbid PV, over-penetrated SPI, remove 2 weights. (22:20) Transit to the Narrows to work during slack tide.
SPI/PV	019	A	8/31/2023	22:43:49	017	14	1	
SPI/PV	019	B	8/31/2023	22:45:07	018	14	1	
SPI/PV	019	C	8/31/2023	22:47:54	019	14	1	
SPI/PV	019	D	8/31/2023	22:48:55	020	14	1	On deck, download, all good.
SPI/PV	020	A	8/31/2023	23:34:36	021	14	2	Currents too strong, abort station. Transit to station 012. Download, FC = 021, no SPI, good PV.
SPI/PV	012	A	9/1/2023	0:15:29	025	14	2	
SPI/PV	012	B	9/1/2023	0:16:36	026	14	2	
SPI/PV	012	C	9/1/2023	0:18:08	027	14	2	
SPI/PV	012	D	9/1/2023	0:19:27	028	14	2	
SPI/PV	012	E	9/1/2023	0:20:55	029	14	2	
SPI/PV	011	A	9/1/2023	0:38:52	030	14	2	
SPI/PV	011	B	9/1/2023	0:40:05	031	14	2	
SPI/PV	011	C	9/1/2023	0:41:25	032	14	2	
SPI/PV	011	D	9/1/2023	0:42:40	033	14	2	On deck download. Stations 11 and 12, ok. No PV due to water conditions, removed 1 weight, FC=034.
SPI/PV	010	A	9/1/2023	1:04:15	035	14	1	
SPI/PV	010	B	9/1/2023	1:05:29	036	14	1	
SPI/PV	010	C	9/1/2023	1:06:39	037	14	1	
SPI/PV	010	D	9/1/2023	1:07:50	038	14	1	Against stern. FC = 039.
SPI/PV	009	A	9/1/2023	1:20:42	040	14	1	
SPI/PV	009	B	9/1/2023	1:21:48	041	14	1	
SPI/PV	009	C	9/1/2023	1:22:57	042	14	1	
SPI/PV	009	D	9/1/2023	1:24:15	043	14	1	Possibly over-penetrated. Against stern. FC = 044.
SPI/PV	008	A	9/1/2023	1:37:36	045	14	1	Over-penetrated.
SPI/PV	008	B	9/1/2023	1:39:12	046	14	1	Over-penetrated.
SPI/PV	008	C	9/1/2023	1:40:28	047	14	1	Over-penetrated.
SPI/PV	008	D	9/1/2023	1:41:47	048	14	1	Over-penetrated. Against stern.
SPI/PV	007	A	9/1/2023	1:54:04	049	14	1	
SPI/PV	007	B	9/1/2023	1:55:19	050	14	1	Over-penetrated.
SPI/PV	007	C	9/1/2023	1:56:48	051	14	1	
SPI/PV	007	D	9/1/2023	1:58:06	052	14	1	Against stern. FC = 053.
SPI/PV	006	A	9/1/2023	2:12:22	054	14	1	
SPI/PV	006	B	9/1/2023	2:13:51	055	14	1	
SPI/PV	006	C	9/1/2023	2:15:05	056	14	1	Over-penetrated.
SPI/PV	006	D	9/1/2023	2:16:30	057	14	1	Over-penetrated.
SPI/PV	006	E	9/1/2023	2:18:19	058	14	1	On deck download. Need to redo 006, 007, and 008 for SPI. PV all bad but it is okay given conditions. Removed all weights. FC = 059.
SPI/PV	005	A	9/1/2023	2:54:43	060	14	0	
SPI/PV	005	B	9/1/2023	2:55:51	061	14	0	
SPI/PV	005	C	9/1/2023	2:57:10	062	14	0	
SPI/PV	005	D	9/1/2023	2:58:20	063	14	0	Against stern.
SPI/PV	004	A	9/1/2023	3:12:09	064	14	0	Over-penetrated
SPI/PV	004	B	9/1/2023	3:13:26	065	14	0	
SPI/PV	004	C	9/1/2023	3:14:43	066	14	0	
SPI/PV	004	D	9/1/2023	3:16:05	067	14	0	Over-penetrated, Against stern.
SPI/PV	003	A	9/1/2023	3:28:23	068	14	0	Over-penetrated.
SPI/PV	003	B	9/1/2023	3:29:33	069	14	0	Over-penetrated.
SPI/PV	003	C	9/1/2023	3:30:33	070	14	0	Over-penetrated.
SPI/PV	003	D	9/1/2023	3:31:46	071	14	0	Over-penetrated. On deck, downloaded SPI over penetrated SPI at 004 and 003. Lowered stops to 12".
SPI/PV	002	A	9/1/2023	3:59:06	073	12	0	Over-penetrated.
SPI/PV	002	B	9/1/2023	4:00:13	074	12	0	Over-penetrated.
SPI/PV	002	C	9/1/2023	4:01:24	075	12	0	Over-penetrated.
SPI/PV	002	D	9/1/2023	4:02:29	076	12	0	Against stern.
SPI/PV	001	E	9/1/2023	4:14:58	077	12	0	Over-penetrated.
SPI/PV	001	F	9/1/2023	4:16:34	078	12	0	Ball caught.
SPI/PV	001	G	9/1/2023	4:17:39	079	12	0	On deck, download, Over penetrated SPI at 002. FC = 080.
SPI/PV	006	F	9/1/2023	4:42:39	081	12	0	
SPI/PV	006	G	9/1/2023	4:43:59	082	12	0	
SPI/PV	006	H	9/1/2023	4:45:39	083	12	0	Against stern.

Sample Type	Station ID	Replicate	Date	Time	Frame	SPI Stop Collar (in)	SPI Weights per Side (#)	Comments
SPI/PV	007	E	9/1/2023	4:53:49	084	12	0	
SPI/PV	007	F	9/1/2023	4:55:12	085	12	0	
SPI/PV	007	G	9/1/2023	4:56:21	086	12	0	
SPI/PV	008	E	9/1/2023	5:03:59	087	12	0	
SPI/PV	008	F	9/1/2023	5:05:22	088	12	0	
SPI/PV	008	G	9/1/2023	5:06:39	089	12	0	
SPI/PV	008	H	9/1/2023	5:08:03	090	12	0	On deck, download. All SPI okay, no PV. Return stops to 14, add 2 weights.
SPI/PV	013	A	9/1/2023	5:34:31	092	14	2	
SPI/PV	013	B	9/1/2023	5:36:14	093	14	2	
SPI/PV	013	C	9/1/2023	5:37:37	094	14	2	
SPI/PV	013	D	9/1/2023	5:39:36	095	14	2	
SPI/PV	014	A	9/1/2023	5:50:39	096	14	2	
SPI/PV	014	B	9/1/2023	5:52:00	097	14	2	
SPI/PV	014	C	9/1/2023	5:53:24	098	14	2	
SPI/PV	014	D	9/1/2023	5:54:59	099	14	2	SPI on deck, download, SPI okay, no PV.
SPI/PV	015	A	9/1/2023	6:22:45	100	14	2	
SPI/PV	015	B	9/1/2023	6:24:24	101	14	2	
SPI/PV	015	C	9/1/2023	6:26:16	102	14	2	
SPI/PV	015	D	9/1/2023	6:27:37	103	14	2	
SPI/PV	016	A	9/1/2023	6:44:55	104	14	2	
SPI/PV	016	B	9/1/2023	6:46:58	105	14	2	
SPI/PV	016	C	9/1/2023	6:48:14	106	14	2	
SPI/PV	016	D	9/1/2023	6:49:24	107	14	2	
SPI/PV	017	A	9/1/2023	7:12:16	108	14	2	
SPI/PV	017	B	9/1/2023	7:14:31	109	14	2	
SPI/PV	017	C	9/1/2023	7:15:47	110	14	2	
SPI/PV	017	D	9/1/2023	7:17:08	111	14	2	
SPI/PV	018	A	9/1/2023	7:31:44	112	14	2	Low penetration.
SPI/PV	018	B	9/1/2023	7:33:03	113	14	2	Low penetration.
SPI/PV	018	C	9/1/2023	7:34:36	114	14	2	Low penetration.
SPI/PV	018	D	9/1/2023	7:35:49	115	14	2	Low penetration.
SPI/PV	020	B	9/1/2023	7:54:53	116	14	2	Low penetration.
SPI/PV	020	C	9/1/2023	7:57:22	117	14	2	
SPI/PV	020	D	9/1/2023	8:16:05	118	14	2	
SPI/PV	020	E	9/1/2023	8:17:31	119	14	2	On deck, download, SPI all good, no PV. (08:35) Transit to station 029 to try for better current situation.
SPI/PV	029	A	9/1/2023	8:54:37	120	14	2	
SPI/PV	029	B	9/1/2023	8:57:00	121	14	2	
SPI/PV	029	C	9/1/2023	9:00:41	122	14	2	
SPI/PV	029	D	9/1/2023	9:03:00	123	14	2	
SPI/PV	029	E	9/1/2023	9:05:00	124	14	2	
SPI/PV	030	A	9/1/2023	9:22:07	132	14	2	
SPI/PV	030	B	9/1/2023	9:23:49	133	14	2	
SPI/PV	030	C	9/1/2023	9:25:33	134	14	2	
SPI/PV	030	D	9/1/2023	9:27:07	135	14	2	
SPI/PV	031	A	9/1/2023	9:41:21	136	14	2	
SPI/PV	031	B	9/1/2023	9:42:50	137	14	2	
SPI/PV	031	C	9/1/2023	9:44:32	138	14	2	
SPI/PV	031	D	9/1/2023	9:45:56	139	14	2	
SPI/PV	032	A	9/1/2023	9:57:20	140	14	2	
SPI/PV	032	B	9/1/2023	9:58:57	141	14	2	
SPI/PV	032	C	9/1/2023	10:00:30	142	14	2	
SPI/PV	032	D	9/1/2023	10:02:37	143	14	2	
SPI/PV	033	A	9/1/2023	10:16:21	144	14	2	
SPI/PV	033	B	9/1/2023	10:17:45	145	14	2	
SPI/PV	033	C	9/1/2023	10:19:16	146	14	2	
SPI/PV	033	D	9/1/2023	10:20:47	147	14	2	On deck download. SPI all good, no PV. Download CTD and DST Data.
SPI/PV	028	A	9/1/2023	11:12:59	145	14	2	
SPI/PV	028	B	9/1/2023	11:14:38	146	14	2	
SPI/PV	028	C	9/1/2023	11:16:01	147	14	2	
SPI/PV	028	D	9/1/2023	11:17:20	148	14	2	
SPI/PV	027	A	9/1/2023	11:29:46	149	14	2	
SPI/PV	027	B	9/1/2023	11:31:25	150	14	2	
SPI/PV	027	C	9/1/2023	11:33:16	151	14	2	
SPI/PV	027	D	9/1/2023	11:34:37	152	14	2	

Sample Type	Station ID	Replicate	Date	Time	Frame	SPI Stop Collar (in)	SPI Weights per Side (#)	Comments
SPI/PV	026	A	9/1/2023	11:56:36	153	14	2	
SPI/PV	026	B	9/1/2023	11:57:55	154	14	2	
SPI/PV	026	C	9/1/2023	11:59:21	155	14	2	
SPI/PV	026	D	9/1/2023	12:00:46	156	14	2	
SPI/PV	025	A	9/1/2023	12:20:26	157	14	2	
SPI/PV	025	B	9/1/2023	12:21:30	158	14	2	
SPI/PV	025	C	9/1/2023	12:22:42	159	14	2	
SPI/PV	025	D	9/1/2023	12:24:05	160	14	2	
SPI/PV	024	A	9/1/2023	12:39:59	161	14	2	
SPI/PV	024	B	9/1/2023	12:41:32	162	14	2	
SPI/PV	024	C	9/1/2023	12:42:47	163	14	2	
SPI/PV	024	D	9/1/2023	12:44:03	164	14	2	
SPI/PV	022	A	9/1/2023	13:02:37	165	14	2	Currents too strong, abandon station. Put mud doors on frame, remove all weights and lower stops. Transit to redo stations 002-004.
SPI/PV	002	E	9/1/2023	14:05:10	169	12	0	
SPI/PV	002	F	9/1/2023	14:06:23	170	12	0	
SPI/PV	002	G	9/1/2023	14:07:38	171	12	0	
SPI/PV	002	H	9/1/2023	14:10:10	172	12	0	Download, No PV- Low penetration on 024, 027, 028. On Deck FC = 173.
SPI/PV	003	E	9/1/2023	14:38:39	174	12	0	
SPI/PV	003	F	9/1/2023	14:39:52	175	12	0	
SPI/PV	003	G	9/1/2023	14:40:52	176	12	0	
SPI/PV	003	H	9/1/2023	14:42:10	177	12	0	
SPI/PV	004	E	9/1/2023	14:50:48	178	12	0	
SPI/PV	004	F	9/1/2023	14:52:16	179	12	0	
SPI/PV	004	G	9/1/2023	14:53:27	180	12	0	
SPI/PV	004	H	9/1/2023	14:54:45	181	12	0	On deck FC = 182. Download, bad PV, SPI good. Change PV battery, remove mud doors, add weights, raise stops. Transit to station 018 for redo
SPI/PV	018	E	9/1/2023	15:48:58	183	14	4	
SPI/PV	018	F	9/1/2023	15:50:20	184	14	4	
SPI/PV	018	G	9/1/2023	15:51:36	185	14	4	
SPI/PV	018	H	9/1/2023	15:52:59	186	14	4	Download, Still low SPI penetration.
SPI/PV	018	I	9/1/2023	16:15:40	187	14	5	
SPI/PV	018	J	9/1/2023	16:17:01	188	14	5	
SPI/PV	018	K	9/1/2023	16:18:17	189	14	5	Against stern.
SPI/PV	021	A	9/1/2023	16:29:36	190	14	5	
SPI/PV	021	B	9/1/2023	16:30:44	191	14	5	
SPI/PV	021	C	9/1/2023	16:32:05	192	14	5	
SPI/PV	021	D	9/1/2023	16:33:12	193	14	5	Against stern.
SPI/PV	022	B	9/1/2023	16:43:06	194	14	5	
SPI/PV	022	C	9/1/2023	16:44:48	195	14	5	
SPI/PV	022	D	9/1/2023	16:45:59	196	14	5	
SPI/PV	023	A	9/1/2023	16:54:04	197	14	5	
SPI/PV	023	B	9/1/2023	16:55:21	198	14	5	
SPI/PV	023	C	9/1/2023	16:56:24	199	14	5	
SPI/PV	023	D	9/1/2023	16:57:29	200	14	5	FC = 201.
SPI/PV	024	E	9/1/2023	17:07:53	202	14	5	
SPI/PV	024	F	9/1/2023	17:09:15	203	14	5	
SPI/PV	024	G	9/1/2023	17:10:29	204	14	5	
SPI/PV	024	H	9/1/2023	17:11:41	205	14	5	Against stern.
SPI/PV	025	E	9/1/2023	17:24:20	206	14	5	
SPI/PV	025	F	9/1/2023	17:25:36	207	14	5	
SPI/PV	025	G	9/1/2023	17:27:17	208	14	5	Against stern.
SPI/PV	027	E	9/1/2023	17:37:47	209	14	5	
SPI/PV	027	F	9/1/2023	17:39:37	210	14	5	
SPI/PV	027	G	9/1/2023	17:40:53	211	14	5	
SPI/PV	027	H	9/1/2023	17:42:07	212	14	5	Against stern.
SPI/PV	028	E	9/1/2023	17:53:01	213	14	5	
SPI/PV	028	F	9/1/2023	17:54:32	214	14	5	
SPI/PV	028	G	9/1/2023	17:55:59	215	14	5	
SPI/PV	028	H	9/1/2023	17:57:35	216	14	5	On deck FC = 217. Download photos, CTD and TDR data, no PV, SPI good. Remove weights.
SPI/PV	034	A	9/1/2023	19:14:17	218	14	2	
SPI/PV	034	B	9/1/2023	19:15:30	219	14	2	
SPI/PV	034	C	9/1/2023	19:16:46	220	14	2	
SPI/PV	034	D	9/1/2023	19:18:01	221	14	2	Remove weights.

Sample Type	Station ID	Replicate	Date	Time	Frame	SPI Stop Collar (in)	SPI Weights per Side (#)	Comments
SPI/PV	035	A	9/1/2023	19:35:33	222	14	0	
SPI/PV	035	B	9/1/2023	19:37:23	223	14	0	
SPI/PV	035	C	9/1/2023	19:38:59	224	14	0	
SPI/PV	035	D	9/1/2023	19:40:26	225	14	0	
SPI/PV	036	A	9/1/2023	19:53:50	226	14	0	
SPI/PV	036	B	9/1/2023	19:55:23	227	14	0	
SPI/PV	036	C	9/1/2023	19:56:17	228	14	0	
SPI/PV	036	D	9/1/2023	19:58:23	229	14	0	
SPI/PV	037	A	9/1/2023	20:11:06	230	14	0	
SPI/PV	037	B	9/1/2023	20:12:38	231	14	0	
SPI/PV	037	C	9/1/2023	20:15:14	232	14	0	
SPI/PV	037	D	9/1/2023	20:16:18	233	14	0	
SPI/PV	038	A	9/1/2023	20:36:24	234	14	0	
SPI/PV	038	B	9/1/2023	20:37:44	235	14	0	
SPI/PV	038	C	9/1/2023	20:39:17	236	14	0	
SPI/PV	038	D	9/1/2023	20:40:30	237	14	0	On deck FC = 241, Download photos, No PV, Good SPI except for low penetration at 038. Weights added.
SPI/PV	038	E	9/1/2023	21:11:21	242	14	5	
SPI/PV	038	F	9/1/2023	21:12:39	243	14	5	
SPI/PV	038	G	9/1/2023	21:13:49	244	14	5	
SPI/PV	039	A	9/1/2023	21:21:44	245	14	5	
SPI/PV	039	B	9/1/2023	21:22:40	246	14	5	
SPI/PV	039	C	9/1/2023	21:23:37	247	14	5	
SPI/PV	039	D	9/1/2023	21:24:41	248	14	5	
SPI/PV	040	A	9/1/2023	21:38:49	249	14	5	
SPI/PV	040	B	9/1/2023	21:40:12	250	14	5	
SPI/PV	040	C	9/1/2023	21:41:35	251	14	5	
SPI/PV	040	D	9/1/2023	21:42:48	252	14	5	
SPI/PV	041	A	9/1/2023	21:55:59	253	14	5	
SPI/PV	041	B	9/1/2023	21:57:19	254	14	5	
SPI/PV	041	C	9/1/2023	21:59:32	255	14	5	
SPI/PV	041	D	9/1/2023	22:00:48	256	14	5	
SPI/PV	042	A	9/1/2023	22:15:20	257	14	5	
SPI/PV	042	B	9/1/2023	22:16:54	258	14	5	
SPI/PV	042	C	9/1/2023	22:18:02	259	14	5	
SPI/PV	042	D	9/1/2023	22:19:00	260	14	5	
SPI/PV	043	A	9/1/2023	22:32:24	261	14	5	
SPI/PV	043	B	9/1/2023	22:33:40	262	14	5	
SPI/PV	043	C	9/1/2023	22:34:57	263	14	5	
SPI/PV	043	D	9/1/2023	22:35:55	264	14	5	
SPI/PV	044	A	9/1/2023	22:50:39	265	14	5	
SPI/PV	044	B	9/1/2023	22:51:41	266	14	5	Line went tight.
SPI/PV	044	C	9/1/2023	22:53:00	267	14	5	
SPI/PV	044	D	9/1/2023	22:54:26	268	14	5	
SPI/PV	044	E	9/1/2023	22:55:29	269	14	5	On deck FC = 270, download photos, CTD and TDR data. No TDR data for stations 034-044 redo with grabs.
SPI/PV	045	A	9/1/2023	23:40:32	271	14	5	
SPI/PV	045	B	9/1/2023	23:42:15	272	14	5	
SPI/PV	045	C	9/1/2023	23:43:22	273	14	5	
SPI/PV	045	D	9/1/2023	23:44:42	274	14	5	
SPI/PV	046	A	9/1/2023	23:56:39	275	14	5	
SPI/PV	046	B	9/1/2023	23:57:33	276	14	5	
SPI/PV	046	C	9/1/2023	23:58:44	277	14	5	
SPI/PV	046	D	9/1/2023	23:59:47	278	14	5	Shift change.
SPI/PV	047	A	9/2/2023	0:13:27	279	14	5	
SPI/PV	047	B	9/2/2023	0:14:40	280	14	5	
SPI/PV	047	C	9/2/2023	0:16:05	281	14	5	
SPI/PV	047	D	9/2/2023	0:17:20	282	14	5	Against stern. FC = 283.
SPI/PV	048	A	9/2/2023	0:30:46	284	14	5	
SPI/PV	048	B	9/2/2023	0:31:59	285	14	5	
SPI/PV	048	C	9/2/2023	0:33:36	286	14	5	
SPI/PV	048	D	9/2/2023	0:34:54	287	14	5	Against stern.
SPI/PV	049	A	9/2/2023	0:45:32	288	14	5	
SPI/PV	049	B	9/2/2023	0:46:41	289	14	5	
SPI/PV	049	C	9/2/2023	0:47:58	290	14	5	
SPI/PV	049	D	9/2/2023	0:49:33	291	14	5	Against stern.

Sample Type	Station ID	Replicate	Date	Time	Frame	SPI Stop Collar (in)	SPI Weights per Side (#)	Comments
SPI/PV	050	A	9/2/2023	1:00:22	292	14	5	
SPI/PV	050	B	9/2/2023	1:01:32	293	14	5	
SPI/PV	050	C	9/2/2023	1:03:02	294	14	5	
SPI/PV	050	D	9/2/2023	1:04:20	295	14	5	
SPI/PV	050	E	9/2/2023	1:05:45	296	14	5	
SPI/PV	051	A	9/2/2023	1:18:45	296	14	5	
SPI/PV	051	B	9/2/2023	1:20:19	297	14	5	
SPI/PV	051	C	9/2/2023	1:21:42	298	14	5	
SPI/PV	051	D	9/2/2023	1:23:05	299	14	5	
SPI/PV	052	A	9/2/2023	1:35:03	300	14	5	
SPI/PV	052	B	9/2/2023	1:36:26	301	14	5	
SPI/PV	052	C	9/2/2023	1:37:46	302	14	5	
SPI/PV	052	D	9/2/2023	1:39:12	303	14	5	FC = 305.
SPI/PV	053	A	9/2/2023	1:49:46	306	14	5	
SPI/PV	053	B	9/2/2023	1:51:15	307	14	5	
SPI/PV	053	C	9/2/2023	1:52:34	308	14	5	
SPI/PV	053	D	9/2/2023	1:53:57	309	14	5	
SPI/PV	054	A	9/2/2023	2:03:32	310	14	5	
SPI/PV	054	B	9/2/2023	2:05:10	311	14	5	
SPI/PV	054	C	9/2/2023	2:06:34	312	14	5	
SPI/PV	054	D	9/2/2023	2:07:59	313	14	5	
SPI/PV	055	A	9/2/2023	2:19:09	314	14	5	
SPI/PV	055	B	9/2/2023	2:20:50	315	14	5	
SPI/PV	055	C	9/2/2023	2:22:22	316	14	5	
SPI/PV	055	D	9/2/2023	2:23:49	317	14	5	On deck, download. Download CTD and TDR data, All images are okay, No PV at 045, 046, 049, 050. Attempted station 056, couldn’t hold station, moved offshore.
SPI/PV	068	A	9/2/2023	4:11:09	319	14	5	
SPI/PV	068	B	9/2/2023	4:12:12	320	14	5	
SPI/PV	068	C	9/2/2023	4:13:15	321	14	5	
SPI/PV	068	D	9/2/2023	4:14:14	322	14	5	
SPI/PV	068	E	9/2/2023	4:15:16	323	14	5	
SPI/PV	069	A	9/2/2023	4:22:21	324	14	5	
SPI/PV	069	B	9/2/2023	4:23:32	325	14	5	
SPI/PV	069	C	9/2/2023	4:24:40	326	14	5	
SPI/PV	069	D	9/2/2023	4:25:48	327	14	5	Low penetration.
SPI/PV	070	A	9/2/2023	4:35:04	329	14	5	
SPI/PV	070	B	9/2/2023	4:36:14	330	14	5	
SPI/PV	070	C	9/2/2023	4:37:24	331	14	5	
SPI/PV	070	D	9/2/2023	4:38:36	332	14	5	
SPI/PV	071	A	9/2/2023	4:49:21	333	14	5	
SPI/PV	071	B	9/2/2023	4:50:31	334	14	5	Low penetration.
SPI/PV	071	C	9/2/2023	4:51:38	335	14	5	
SPI/PV	071	D	9/2/2023	4:52:46	336	14	5	Low penetration.
SPI/PV	067	A	9/2/2023	5:08:55	337	14	5	Bounced?
SPI/PV	067	B	9/2/2023	5:10:04	338	14	5	
SPI/PV	067	C	9/2/2023	5:11:13	339	14	5	
SPI/PV	067	D	9/2/2023	5:12:16	340	14	5	
SPI/PV	067	E	9/2/2023	5:13:24	341	14	5	Low penetration.
SPI/PV	066	A	9/2/2023	5:23:02	341	14	5	
SPI/PV	066	B	9/2/2023	5:24:09	342	14	5	
SPI/PV	066	C	9/2/2023	5:25:26	343	14	5	
SPI/PV	066	D	9/2/2023	5:26:49	344	14	5	
SPI/PV	065	A	9/2/2023	5:38:40	345	14	5	Low penetration.
SPI/PV	065	B	9/2/2023	5:39:40	346	14	5	Low penetration.
SPI/PV	065	C	9/2/2023	5:40:49	347	14	5	Low penetration.
SPI/PV	065	D	9/2/2023	5:42:01	348	14	5	Low penetration. FC = 351.
SPI/PV	064	A	9/2/2023	5:59:01	352	14	5	
SPI/PV	064	B	9/2/2023	6:00:34	353	14	5	
SPI/PV	064	C	9/2/2023	6:02:01	354	14	5	
SPI/PV	064	D	9/2/2023	6:03:29	355	14	5	
SPI/PV	063	A	9/2/2023	6:18:00	356	14	5	
SPI/PV	063	B	9/2/2023	6:19:34	357	14	5	
SPI/PV	063	C	9/2/2023	6:20:58	358	14	5	
SPI/PV	063	D	9/2/2023	6:22:48	359	14	5	
SPI/PV	062	A	9/2/2023	6:37:38	360	14	5	

Sample Type	Station ID	Replicate	Date	Time	Frame	SPI Stop Collar (in)	SPI Weights per Side (#)	Comments
SPI/PV	062	B	9/2/2023	6:39:24	361	14	5	
SPI/PV	062	C	9/2/2023	6:41:32	362	14	5	No navigation fix.
SPI/PV	062	D	9/2/2023	6:43:53	363	14	5	
SPI/PV	062	E	9/2/2023	6:46:06	364	14	5	FC = 365, Can't hold station due to currents, moving back offshore. On deck download SPI, CTD, TDR. Change PV battery.
SPI/PV	072	A	9/2/2023	8:17:09	366	14	5	
SPI/PV	072	B	9/2/2023	8:18:37	367	14	5	
SPI/PV	072	C	9/2/2023	8:19:52	368	14	5	
SPI/PV	072	D	9/2/2023	8:21:24	369	14	5	
SPI/PV	073	A	9/2/2023	8:35:07	370	14	5	
SPI/PV	073	B	9/2/2023	8:36:28	371	14	5	
SPI/PV	073	C	9/2/2023	8:37:37	372	14	5	
SPI/PV	073	D	9/2/2023	8:38:49	373	14	5	
SPI/PV	074	A	9/2/2023	8:51:16	374	14	5	
SPI/PV	074	B	9/2/2023	8:52:40	375	14	5	
SPI/PV	074	C	9/2/2023	8:53:55	376	14	5	
SPI/PV	074	D	9/2/2023	8:55:07	377	14	5	
SPI/PV	075	A	9/2/2023	9:09:04	378	14	5	
SPI/PV	075	B	9/2/2023	9:10:30	379	14	5	
SPI/PV	075	C	9/2/2023	9:11:48	380	14	5	
SPI/PV	075	D	9/2/2023	9:12:59	381	14	5	
SPI/PV	076	A	9/2/2023	9:28:05	382	14	5	
SPI/PV	076	B	9/2/2023	9:29:16	383	14	5	
SPI/PV	076	C	9/2/2023	9:30:43	384	14	5	
SPI/PV	076	D	9/2/2023	9:31:54	385	14	5	
SPI/PV	077	A	9/2/2023	9:45:08	386	14	5	
SPI/PV	077	B	9/2/2023	9:46:13	387	14	5	
SPI/PV	077	C	9/2/2023	9:47:26	388	14	5	
SPI/PV	077	-	9/2/2023	9:48:36	389	14	5	No navigation fix.
SPI/PV	077	D	9/2/2023	9:50:09	390	14	5	Out of circle.
SPI/PV	077	E	9/2/2023	9:54:01	391	14	5	FC = 392.
SPI/PV	078	A	9/2/2023	10:09:49	393	14	5	
SPI/PV	078	B	9/2/2023	10:10:53	394	14	5	
SPI/PV	078	C	9/2/2023	10:12:08	395	14	5	
SPI/PV	078	D	9/2/2023	10:13:23	396	14	5	
SPI/PV	079	A	9/2/2023	10:25:05	397	14	5	
SPI/PV	079	B	9/2/2023	10:26:21	398	14	5	
SPI/PV	079	C	9/2/2023	10:27:31	399	14	5	
SPI/PV	079	D	9/2/2023	10:28:47	400	14	5	
SPI/PV	080	A	9/2/2023	10:41:31	401	14	5	
SPI/PV	080	B	9/2/2023	10:42:50	402	14	5	
SPI/PV	080	C	9/2/2023	10:44:09	403	14	5	
SPI/PV	080	D	9/2/2023	10:45:25	404	14	5	
SPI/PV	061	A	9/2/2023	11:12:18	405	14	5	
SPI/PV	061	B	9/2/2023	11:13:56	406	14	5	
SPI/PV	061	C	9/2/2023	11:15:37	407	14	5	
SPI/PV	061	D	9/2/2023	11:16:50	408	14	5	FC = 409, CTD already completed earlier.
SPI/PV	060	A	9/2/2023	11:24:03	410	14	5	
SPI/PV	060	B	9/2/2023	11:25:28	411	14	5	
SPI/PV	060	C	9/2/2023	11:26:42	412	14	5	
SPI/PV	060	D	9/2/2023	11:28:04	413	14	5	
SPI/PV	059	A	9/2/2023	11:36:24	414	14	5	
SPI/PV	059	B	9/2/2023	11:37:39	415	14	5	
SPI/PV	059	C	9/2/2023	11:38:59	416	14	5	
SPI/PV	059	D	9/2/2023	11:40:15	417	14	5	FC = 418.
SPI/PV	058	A	9/2/2023	11:49:47	419	14	5	
SPI/PV	058	B	9/2/2023	11:51:12	420	14	5	
SPI/PV	058	C	9/2/2023	11:52:30	421	14	5	
SPI/PV	058	D	9/2/2023	11:53:43	422	14	5	
SPI/PV	057	A	9/2/2023	12:05:13	423	14	5	
SPI/PV	057	B	9/2/2023	12:06:28	424	14	5	
SPI/PV	057	C	9/2/2023	12:07:23	425	14	5	
SPI/PV	057	D	9/2/2023	12:08:23	426	14	5	
SPI/PV	056	A	9/2/2023	12:19:48	427	14	5	
SPI/PV	056	B	9/2/2023	12:21:07	428	14	5	
SPI/PV	056	C	9/2/2023	12:22:06	429	14	5	

Sample Type	Station ID	Replicate	Date	Time	Frame	SPI Stop Collar (in)	SPI Weights per Side (#)	Comments
SPI/PV	056	D	9/2/2023	12:23:10	430	14	5	On deck FC = 431. Download photos, CTD and TDR data (All good).
SPI/PV	081	A	9/2/2023	13:42:59	432	14	5	
SPI/PV	081	B	9/2/2023	13:44:33	433	14	5	
SPI/PV	081	C	9/2/2023	13:46:03	434	14	5	
SPI/PV	081	D	9/2/2023	13:47:00	435	14	5	
SPI/PV	082	A	9/2/2023	13:57:59	436	14	5	
SPI/PV	082	B	9/2/2023	13:59:03	437	14	5	
SPI/PV	082	C	9/2/2023	14:00:20	438	14	5	
SPI/PV	082	D	9/2/2023	14:01:16	439	14	5	
SPI/PV	083	A	9/2/2023	14:11:09	440	14	5	
SPI/PV	083	B	9/2/2023	14:12:04	441	14	5	
SPI/PV	083	C	9/2/2023	14:13:03	442	14	5	
SPI/PV	083	D	9/2/2023	14:14:04	443	14	5	
SPI/PV	084	A	9/2/2023	14:27:31	444	14	5	
SPI/PV	084	B	9/2/2023	14:28:56	445	14	5	
SPI/PV	084	C	9/2/2023	14:30:12	446	14	5	
SPI/PV	084	D	9/2/2023	14:31:35	447	14	5	
SPI/PV	085	A	9/2/2023	14:43:48	448	14	5	
SPI/PV	085	B	9/2/2023	14:45:06	449	14	5	
SPI/PV	085	C	9/2/2023	14:46:35	450	14	5	
SPI/PV	085	D	9/2/2023	14:48:02	451	14	5	
SPI/PV	086	A	9/2/2023	15:02:36	452	14	5	
SPI/PV	086	B	9/2/2023	15:04:07	453	14	5	
SPI/PV	086	C	9/2/2023	15:05:26	454	14	5	
SPI/PV	086	D	9/2/2023	15:07:03	455	14	5	Line went tight.
SPI/PV	086	E	9/2/2023	15:08:39	456	14	5	FC = 457.
SPI/PV	087	A	9/2/2023	15:25:00	458	14	5	
SPI/PV	087	B	9/2/2023	15:26:17	459	14	5	
SPI/PV	087	C	9/2/2023	15:27:31	460	14	5	
SPI/PV	087	D	9/2/2023	15:28:45	461	14	5	
SPI/PV	087	E	9/2/2023	15:30:02	462	14	5	
SPI/PV	088	A	9/2/2023	15:47:19	463	14	5	
SPI/PV	088	B	9/2/2023	15:48:36	464	14	5	
SPI/PV	088	C	9/2/2023	15:49:34	465	14	5	
SPI/PV	088	D	9/2/2023	15:50:39	466	14	5	FC = 467.
SPI/PV	089	A	9/2/2023	16:02:18	468	14	5	
SPI/PV	089	B	9/2/2023	16:03:58	469	14	5	
SPI/PV	089	C	9/2/2023	16:05:00	470	14	5	
SPI/PV	089	D	9/2/2023	16:05:55	471	14	5	
SPI/PV	090	A	9/2/2023	16:23:23	472	14	5	
SPI/PV	090	B	9/2/2023	16:24:36	473	14	5	
SPI/PV	090	C	9/2/2023	16:25:51	474	14	5	
SPI/PV	090	D	9/2/2023	16:27:17	475	14	5	
SPI/PV	091	A	9/2/2023	16:42:03	476	14	5	
SPI/PV	091	B	9/2/2023	16:43:47	477	14	5	
SPI/PV	091	C	9/2/2023	16:45:05	478	14	5	
SPI/PV	091	D	9/2/2023	16:46:13	479	14	5	On deck FC = 482, Download Photos, CTD and TDR data, Turbid PV at 087, 089, 090, 091. Redo if possible. (17:05) Begin transit inshore for calmer weather to begin grabs - swap over equipment.
SPI/PV	091	E	9/5/2023	6:28:53	-	-	-	PV only.
SPI/PV	091	F	9/5/2023	6:30:09	-	-	-	PV only.
SPI/PV	091	G	9/5/2023	6:32:19	-	-	-	PV only.
SPI/PV	019	H	9/5/2023	6:33:29	-	-	-	Against stern. PV only.
SPI/PV	090	E	9/5/2023	6:46:28	-	-	-	PV only.
SPI/PV	090	F	9/5/2023	6:47:27	-	-	-	PV only.
SPI/PV	090	G	9/5/2023	6:48:43	-	-	-	PV only.
SPI/PV	090	H	9/5/2023	6:49:44	-	-	-	Against stern. PV only.
SPI/PV	089	E	9/5/2023	7:01:06	-	-	-	PV only.
SPI/PV	089	F	9/5/2023	7:02:15	-	-	-	PV only.
SPI/PV	089	G	9/5/2023	7:03:31	-	-	-	PV only.
SPI/PV	089	H	9/5/2023	7:05:20	-	-	-	Against stern. PV only.
SPI/PV	088	E	9/5/2023	7:17:13	-	-	-	PV only.
SPI/PV	088	F	9/5/2023	7:18:23	-	-	-	PV only.
SPI/PV	088	G	9/5/2023	7:19:48	-	-	-	PV only.
SPI/PV	088	H	9/5/2023	7:21:06	-	-	-	On deck PV
SPI/PV	087	F	9/5/2023	7:35:05	-	-	-	PV only.

Sample Type	Station ID	Replicate	Date	Time	Frame	SPI Stop Collar (in)	SPI Weights per Side (#)	Comments
SPI/PV	087	G	9/5/2023	7:36:13	-	-	-	PV only.
SPI/PV	087	H	9/5/2023	7:37:33	-	-	-	PV only.
SPI/PV	087	I	9/5/2023	7:38:35	-	-	-	On deck download, No usable PV shots. (07:50) Prep for chemistry grabs.

Sample Type	Station ID	Date	Time	Comments
Grab (BCA/GS)	002	9/2/2023	19:22	(19:00) TBRA and procedure review for grab samples. (19:22) Arrive at station 002 (BCA/GS). Begin grab operations. Problem with overpenetration. Use mud doors.
Grab (BCA/GS)	003	9/2/2023	21:40	Grab (BCA/GS) at 003.
Grab (BCA/GS)	005	9/2/2023	22:38	Grab (BCA/GS) at 005 .
Grab (BCA/GS)	007	9/3/2023	0:16	Grab (BCA/GS) at 007.
Grab (BCA/GS)	009	9/3/2023	1:40	Grab (BCA/GS) at 009.
Grab (BCA/GS)	011	9/3/2023	2:40	Grab (BCA/GS) at 011.
Grab (BCA/GS)	013	9/3/2023	3:35	Grab (BCA/GS) at 013.
Grab (BCA/GS)	015	9/3/2023	4:30	Grab (BCA/GS) at 015.
Grab (BCA/GS)	017	9/3/2023	5:30	Grab (BCA/GS) at 017, Photo for 017-D mislabeled as 019-A but has the correct time.
Grab (BCA/GS)	019	9/3/2023	6:45	Grab (BCA/GS) at 019.
Grab (BCA/GS)	021	9/3/2023	7:47	Grab (BCA/GS) at 021.
Grab (BCA/GS)	023	9/3/2023	9:15	Grab (BCA/GS) at 023. (10:25) Lost rudder, vessel downtime, anchored at station 023. (13:35) Issue corrected resume operations.
Grab (BCA/GS)	023	9/3/2023	13:40	Grab (BCA/GS) at 023.
Grab (BCA/GS)	025	9/3/2023	14:35	Grab (BCA/GS) at 025.
Grab (BCA/GS)	027	9/3/2023	16:00	Grab (BCA/GS) at 027.
Grab (BCA/GS)	029	9/3/2023	17:55	Grab (BCA/GS) at 029.
Grab (BCA/GS)	031	9/3/2023	19:20	Grab (BCA/GS) at 031.
Grab (BCA/GS)	033	9/3/2023	20:20	Grab (BCA/GS) at 033.
Grab (BCA/GS)	035	9/3/2023	21:40	Grab (BCA/GS) at 035.
Grab (BCA/GS)	037	9/3/2023	22:35	Grab (BCA/GS) at 037.
Grab (BCA/GS)	039	9/3/2023	23:32	Grab (BCA/GS) at 039. Shift change.
Grab (BCA/GS)	041	9/4/2023	1:08	Grab (BCA/GS) at 041.
Grab (BCA/GS)	043	9/4/2023	2:15	Grab (BCA/GS) at 043.
Grab (BCA/GS)	045	9/4/2023	3:00	Grab (BCA/GS) at 045.
Grab (BCA/GS)	047	9/4/2023	4:10	Grab (BCA/GS) at 047.
Grab (BCA/GS)	049	9/4/2023	5:25	Grab (BCA/GS) at 049.
Grab (BCA/GS)	051	9/4/2023	6:10	Grab (BCA/GS) at 051.
Grab (BCA/GS)	053	9/4/2023	7:45	Grab (BCA/GS) at 053.
Grab (BCA/GS)	055	9/4/2023	8:25	Grab (BCA/GS) at 055.
Grab (BCA/GS)	057	9/4/2023	9:05	Grab (BCA/GS) at 057.
Grab (BCA/GS)	059	9/4/2023	9:41	Grab (BCA/GS) at 059, got one successful grab, then relocated given currents - Need two more, shell debris on bottom.
Grab (BCA/GS)	069	9/4/2023	10:50	Resume Grab (BCA/GS) at 069.
Grab (BCA/GS)	067	9/4/2023	11:40	Grab (BCA/GS) at 067.
Grab (BCA/GS)	065	9/4/2023	12:37	Grab (BCA/GS) at 065.
Grab (BCA/GS)	059	9/4/2023	13:55	Grab (BCA/GS) at 059.
Grab (BCA/GS)	061	9/4/2023	14:55	Grab (BCA/GS) at 061.
Grab (BCA/GS)	063	9/4/2023	16:05	Grab (BCA/GS) at 063.
Grab (BCA/GS)	071	9/4/2023	18:40	Grab (BCA/GS) at 071.
Grab (BCA/GS)	073	9/4/2023	19:40	Grab (BCA/GS) at 073.
Grab (BCA/GS)	075	9/4/2023	21:05	Grab (BCA/GS) at 075.
Grab (BCA/GS)	077	9/4/2023	22:20	Grab (BCA/GS) at 077.
Grab (BCA/GS)	079	9/4/2023	23:40	Grab (BCA/GS) at 079. Shift change.
Grab (BCA/GS)	081	9/5/2023	0:58	Grab (BCA/GS) at 081.
Grab (BCA/GS)	083	9/5/2023	1:30	Grab (BCA/GS) at 083.
Grab (BCA/GS)	085	9/5/2023	2:05	Grab (BCA/GS) at 085.
Grab (BCA/GS)	087	9/5/2023	2:45	Grab (BCA/GS) at 087.
Grab (BCA/GS)	089	9/5/2023	3:20	Grab (BCA/GS) at 089.
Grab (BCA/GS)	091	9/5/2023	4:15	Grab (BCA/GS) at 091. (05:21) All BCA/GS collected, Return to PV operations.

Sample Type	Station ID	Date	Time	Comments
Grab (Chem)	093	9/5/2023	9:42	Begin chemistry grabs at station 093.
Grab (Chem)	092	9/5/2023	10:11	Station 092 chemistry grab.
Grab (Chem)	049	9/5/2023	10:30	Station 049 chemistry grab.
Grab (Chem)	094	9/5/2023	10:46	Station 094 chemistry grab.
Grab (Chem)	045	9/5/2023	11:00	Station 045 chemistry grab.
Grab (Chem)	095	9/5/2023	11:10	Station 095 chemistry grab.
Grab (Chem)	-	9/5/2023	11:30	Equipment blank taken.
Grab (Chem)	096	9/5/2023	11:39	Station 096 chemistry grab.
Grab (Chem)	041	9/5/2023	11:50	Station 041 chemistry grab.
Grab (Chem)	097	9/5/2023	12:15	Station 097 chemistry grabs (2 grabs needed).
Grab (Chem)	099	9/5/2023	13:00	Station 099 chemistry grab.
Grab (Chem)	037	9/5/2023	13:10	Station 037 chemistry grab, MS/MSD sample taken.
Grab (Chem)	098	9/5/2023	13:52	Station 098 chemistry grabs.
Grab (Chem)	100	9/5/2023	14:15	Station 100 chemistry grabs, field duplicate taken.
Grab (Chem)	033	9/5/2023	14:45	Station 033 chemistry grab.
Grab (Chem)	101	9/5/2023	15:09	Station 101 chemistry grab.
Grab (Chem)	102	9/5/2023	15:40	Station 102 chemistry grab. (6:07) Currents too strong abort station, head up river.
Grab (Chem)	112	9/5/2023	16:45	(16:40) Arrive at Station 112 after checking current at Station 111. Station 112 chemistry grab.
Grab (Chem)	009	9/5/2023	16:56	Station 009 chemistry grab.
Grab (Chem)	113	9/5/2023	17:10	Station 113 chemistry grab.
Grab (Chem)	114	9/5/2023	17:25	Station 114 chemistry grab.
Grab (Chem)	005	9/5/2023	17:38	Station 005 chemistry grab.
Grab (Chem)	115	9/5/2023	17:50	Station 115 chemistry grab.
Grab (Chem)	110	9/5/2023	18:15	Transit to station 110 to take advantage of slack tide.
Grab (Chem)	110	9/5/2023	18:50	Station 110 chemistry grab, field duplicate taken.
Grab (Chem)	013	9/5/2023	19:14	Station 013 chemistry grab.
Grab (Chem)	111	9/5/2023	19:25	Station 111 chemistry grab.
Grab (Chem)	108	9/5/2023	19:35	Station 108 chemistry grab.
Grab (Chem)	017	9/5/2023	20:10	Station 017 chemistry grab.
Grab (Chem)	109	9/5/2023	20:25	Station 109 chemistry grab, transit to 104 for slack tide.
Grab (Chem)	104	9/5/2023	20:40	Station 104 chemistry grab.
Grab (Chem)	025	9/5/2023	20:55	Station 025 chemistry grab.
Grab (Chem)	105	9/5/2023	21:10	Station 105 chemistry grab.
Grab (Chem)	102	9/5/2023	21:25	Station 102 chemistry grab, retry.
Grab (Chem)	029	9/5/2023	21:50	Station 029 chemistry grab.
Grab (Chem)	103	9/5/2023	22:02	Station 103 chemistry grab, field duplicate taken.
Grab (Chem)	106	9/5/2023	22:40	Station 106 chemistry grab.
Grab (Chem)	021	9/5/2023	23:00	Station 021 chemistry grab.
Grab (Chem)	107	9/5/2023	23:30	Station 107 chemistry grab. (23:40) Transit to Northern most chemistry stations.
Grab (Chem)	-	9/6/2023	0:20	Shift change. Equipment blank 02 collected
Grab (Chem)	116	9/6/2023	0:30	Grab operations at 116 (chem)
Grab (Chem)	002	9/6/2023	1:25	Grab operations at 002 (chem)
Grab (Chem)	117	9/6/2023	1:37	Grab operations at 117 (chem). (02:00) Chemistry grab operations complete. (03:20) Begin transit to port. (04:30) Arrive at port.

Sample Type	Station ID	Date	Time	Comments
CTD	019	8/31/2023	23:13:03	CTD cast/sediment temperature.
CTD	012	9/1/2023	0:26:33	
CTD	011	9/1/2023	0:49:00	
CTD	010	9/1/2023	1:11:45	On bottom.
CTD	009	9/1/2023	1:28:32	On bottom.
CTD	008	9/1/2023	1:44:54	
CTD	007	9/1/2023	2:03:05	On bottom.
CTD	006	9/1/2023	2:22:52	On bottom.
CTD	005	9/1/2023	3:03:45	On bottom.
CTD	004	9/1/2023	3:19:10	On bottom.
CTD	003	9/1/2023	3:36:56	On bottom.
CTD	002	9/1/2023	4:05:56	On bottom.
CTD	001	9/1/2023	4:22:25	
CTD	013	9/1/2023	5:43:25	On bottom.
CTD	014	9/1/2023	6:06:33	
CTD	015	9/1/2023	6:32:17	On bottom.
CTD	016	9/1/2023	6:56:32	
CTD	017	9/1/2023	7:20:32	On bottom.
CTD	018	9/1/2023	7:40:38	On bottom.
CTD	020	9/1/2023	8:27:59	On bottom.
CTD	029	9/1/2023	9:08:33	On bottom.
CTD	030	9/1/2023	9:30:47	On bottom.
CTD	031	9/1/2023	9:48:45	On bottom.
CTD	032	9/1/2023	10:05:18	On bottom.
CTD	033	9/1/2023	10:25:12	On bottom.
CTD	028	9/1/2023	11:20:59	On bottom.
CTD	027	9/1/2023	11:43:30	On bottom.
CTD	026	9/1/2023	12:05:35	On bottom.
CTD	025	9/1/2023	12:30:01	On bottom.
CTD	024	9/1/2023	12:47:38	On bottom.
CTD	021	9/1/2023	16:36:45	On bottom.
CTD	022	9/1/2023	16:49:03	On bottom.
CTD	023	9/1/2023	17:00:37	On bottom.
CTD	034	9/1/2023	19:26:56	On bottom.
CTD	035	9/1/2023	19:44:29	On bottom.
CTD	036	9/1/2023	20:01:40	On bottom.
CTD	037	9/1/2023	20:28:27	On bottom.
CTD	038	9/1/2023	20:44:33	On bottom.
CTD	039	9/1/2023	21:29:12	On bottom.
CTD	040	9/1/2023	21:46:06	On bottom.
CTD	041	9/1/2023	22:04:12	On bottom.
CTD	042	9/1/2023	22:22:27	On bottom.
CTD	043	9/1/2023	22:39:02	On bottom.
CTD	044	9/1/2023	22:59:37	On bottom.
CTD	045	9/1/2023	23:47:28	
CTD	046	9/2/2023	0:03:33	On bottom.
CTD	047	9/2/2023	0:20:20	On bottom.
CTD	048	9/2/2023	0:37:47	On bottom.
CTD	049	9/2/2023	0:52:20	On bottom.
CTD	050	9/2/2023	1:08:35	On bottom.
CTD	051	9/2/2023	1:25:57	On bottom.
CTD	052	9/2/2023	1:42:25	On bottom.
CTD	053	9/2/2023	1:56:57	On bottom.
CTD	054	9/2/2023	2:11:54	On bottom.

Sample Type	Station ID	Date	Time	Comments
CTD	055	9/2/2023	2:28:03	On bottom.
CTD	068	9/2/2023	4:07:00	On bottom.
CTD	069	9/2/2023	4:28:15	On bottom.
CTD	070	9/2/2023	4:41:47	On bottom.
CTD	071	9/2/2023	4:55:05	On bottom.
CTD	067	9/2/2023	5:15:40	On bottom.
CTD	066	9/2/2023	5:29:38	On bottom.
CTD	065	9/2/2023	5:45:23	On bottom.
CTD	064	9/2/2023	5:53:32	On bottom.
CTD	063	9/2/2023	6:27:04	On bottom.
CTD	062	9/2/2023	6:50:19	On bottom.
CTD	061	9/2/2023	7:17:59	On bottom.
CTD	072	9/2/2023	8:24:22	
CTD	073	9/2/2023	8:41:33	On bottom.
CTD	074	9/2/2023	8:57:33	On bottom.
CTD	075	9/2/2023	9:15:19	On bottom.
CTD	076	9/2/2023	9:34:42	On bottom.
CTD	077	9/2/2023	9:56:39	On bottom.
CTD	078	9/2/2023	10:16:00	On bottom.
CTD	079	9/2/2023	10:31:20	On bottom.
CTD	080	9/2/2023	10:48:22	Changed locations due to calmer tides.
CTD	060	9/2/2023	11:31:06	On bottom.
CTD	059	9/2/2023	11:42:55	On bottom.
CTD	058	9/2/2023	11:56:31	
CTD	058	9/2/2023	11:58:30	
CTD	057	9/2/2023	12:12:43	On bottom.
CTD	056	9/2/2023	12:38:14	On bottom.
CTD	081	9/2/2023	13:50:17	On bottom.
CTD	082	9/2/2023	14:04:18	On bottom.
CTD	083	9/2/2023	14:19:35	On bottom.
CTD	084	9/2/2023	14:35:12	On bottom.
CTD	085	9/2/2023	14:53:44	On bottom.
CTD	086	9/2/2023	15:13:33	On bottom.
CTD	087	9/2/2023	15:39:30	On bottom.
CTD	088	9/2/2023	15:56:10	On bottom.
CTD	089	9/2/2023	16:14:36	On bottom.
CTD	090	9/2/2023	16:33:31	On bottom.
CTD	091	9/2/2023	16:57:17	On bottom.
CTD Temperature	034	9/3/2023	21:27:45	Station 034 sediment temperature redo - bottom.
CTD Temperature	035	9/3/2023	21:34:14	Station 035 sediment temperature redo - bottom.
CTD Temperature	036	9/3/2023	22:27:23	Station 036 sediment temperature redo - bottom.
CTD Temperature	037	9/3/2023	22:33:43	Station 037 sediment temperature redo - bottom.
CTD Temperature	038	9/3/2023	23:23:29	Station 038 sediment temperature redo - bottom.
CTD Temperature	039	9/3/2023	23:30:26	Station 039 sediment temperature redo - bottom.
CTD Temperature	040	9/4/2023	0:53:19	Station 040 sediment temperature redo - bottom.
CTD Temperature	041	9/4/2023	1:07:19	Station 041 sediment temperature redo - bottom.
CTD Temperature	042	9/4/2023	2:02:02	Station 042 sediment temperature redo - bottom.
CTD Temperature	043	9/4/2023	2:14:02	Station 043 sediment temperature redo - bottom.
CTD Temperature	044	9/4/2023	2:55:43	Station 044 sediment temperature redo - bottom.

Appendix C – Sediment Profile Image Analysis Results

Notes:
IND=Indeterminate
SWI=Sediment-Water Interface
1 Grain Size: “/” indicates layer of one phi size range over another; "+" indicates mix of one phi size range with another.
2 Successional Stage: “on” indicates one Stage is found on top of another Stage (i.e., 1 on 3); “->” indicates one Stage is progressing to another Stage (i.e., 2 -> 3).
3 Infauna: Larger, conspicuous, and identifiable in fauna were noted; a value of “none” does not indicate an absence of visible infauna or indicators of their presence.

Station ID	Replicate	Water Depth (m)	Date	Time	Stop Collar Setting (in)	Weights per Side (#)	Image Width (cm)	Grain Size Major Mode (phi)[1]	Grain Size Minimum (phi)	Grain Size Maximum (phi)	Grain Size Range (phi)	Penetration Mean (cm)	Penetration Minimum (cm)	Penetration Maximum (cm)	Over-penetration?	Boundary Roughness (cm)	aRPD Mean (cm)	aRPD > Pen	Beggiatoa Present?	Methane Present?	Low DO Present?	Sediment Oxygen Demand
001	B	9.1	8/31/2023	22:06:43	14	3	14.64	>4	>4	1	>4 to 1	19.55	19.37	19.80	No	0.42	1.30	No	No	No	No	Medium
001	F	6.4	9/1/2023	4:16:48	12	0	14.64	>4	>4	3	>4 to 3	13.22	13.03	13.72	No	0.69	1.21	No	No	No	No	Medium
001	G	6.4	9/1/2023	4:17:51	12	0	14.64	>4	>4	3	>4 to 3	19.64	19.27	20.14	No	0.87	1.34	No	No	No	No	Medium
002	D	11.0	9/1/2023	4:02:43	12	0	14.64	>4	>4	3	>4 to 3	18.14	17.41	18.75	No	1.34	1.22	No	No	Yes	No	Medium
002	E	11.0	9/1/2023	14:05:25	12	0	14.64	>4	>4	3	>4 to 3	13.87	13.09	14.77	No	1.67	4.06	No	No	Yes	No	Medium
002	F	11.0	9/1/2023	14:06:37	12	0	14.64	>4	>4	3	>4 to 3	14.42	14.00	15.25	No	1.26	3.71	No	No	Yes	No	Medium
003	F	11.6	9/1/2023	14:40:06	12	0	14.64	>4	>4	3	>4 to 3	11.54	11.28	11.94	No	0.66	2.45	No	No	Yes	No	Medium
003	G	11.6	9/1/2023	14:41:03	12	0	14.64	>4	>4	3	>4 to 3	13.27	12.03	13.97	No	1.94	1.05	No	No	Yes	No	Medium
003	H	11.6	9/1/2023	14:42:24	12	0	14.64	4 to 3/>4	>4	3	>4 to 3	12.70	12.52	13.04	No	0.51	3.83	No	No	No	No	Medium
004	E	11.6	9/1/2023	14:51:02	12	0	14.64	4 to 3/>4	>4	3	>4 to 3	11.49	11.41	11.67	No	0.26	3.44	No	No	No	No	Medium
004	F	11.6	9/1/2023	14:52:30	12	0	14.64	4 to 3/>4	>4	3	>4 to 3	11.12	10.93	11.35	No	0.42	3.49	No	No	No	No	Medium
004	H	11.6	9/1/2023	14:54:59	12	0	14.64	4 to 3/>4	>4	3	>4 to 3	10.54	10.31	10.89	No	0.59	2.58	No	No	No	No	Medium
005	A	11.1	9/1/2023	2:54:57	14	0	14.64	>4	>4	0	>4 to 0	18.77	17.99	19.46	No	1.47	IND	No	No	No	No	Medium
005	B	11.1	9/1/2023	2:56:05	14	0	14.64	>4	>4	3	>4 to 3	15.99	15.65	16.62	No	0.98	1.77	No	No	No	No	Medium
005	C	11.1	9/1/2023	2:57:23	14	0	14.64	>4	>4	3	>4 to 3	18.53	18.08	19.31	No	1.22	0.75	No	No	No	No	Medium
006	F	12.2	9/1/2023	4:42:53	12	0	14.64	>4	>4	0	>4 to 0	16.43	15.75	17.01	No	1.26	IND	No	No	No	No	Medium
006	G	12.2	9/1/2023	4:44:10	12	0	14.64	>4	>4	1	>4 to 1	16.75	16.56	16.96	No	0.40	1.82	No	No	No	No	Medium
006	H	12.2	9/1/2023	4:45:52	12	0	14.64	>4	>4	-1	>4 to -1	15.08	14.73	15.38	No	0.65	1.70	No	No	No	No	Medium
007	E	12.2	9/1/2023	4:54:02	12	0	14.64	>4	>4	3	>4 to 3	15.37	15.01	15.76	No	0.75	2.44	No	No	No	No	Medium
007	F	12.2	9/1/2023	4:55:27	12	0	14.64	>4	>4	0	>4 to 0	15.39	14.86	15.84	No	0.98	2.97	No	No	No	No	Medium
007	G	12.2	9/1/2023	4:56:36	12	0	14.64	>4	>4	3	>4 to 3	15.84	15.56	16.04	No	0.48	2.87	No	No	No	No	Medium
008	E	11.6	9/1/2023	5:04:12	12	0	14.64	>4	>4	0	>4 to 0	14.43	13.86	14.97	No	1.10	2.25	No	No	No	No	Medium
008	F	11.6	9/1/2023	5:05:35	12	0	14.64	>4	>4	3	>4 to 3	17.81	17.60	18.45	No	0.85	2.69	No	No	No	No	Medium
008	H	11.6	9/1/2023	5:08:17	12	0	14.64	>4	>4	0	>4 to 0	18.66	18.15	19.02	No	0.87	2.31	No	No	No	No	Medium
009	A	11.3	9/1/2023	1:20:53	14	1	14.64	>4	>4	-1	>4 to -1	19.34	19.01	19.99	No	0.97	3.14	No	No	No	No	Medium
009	B	11.3	9/1/2023	1:22:01	14	1	14.64	>4	>4	-1	>4 to -1	19.47	18.87	19.97	No	1.09	1.08	No	No	No	No	Medium
009	C	11.3	9/1/2023	1:23:11	14	1	14.64	>4	>4	0	>4 to 0	18.99	18.74	19.38	No	0.64	2.23	No	No	No	No	Medium
010	B	11.9	9/1/2023	1:05:41	14	1	14.64	>4	>4	3	>4 to 3	19.05	18.82	19.43	No	0.61	2.26	No	No	No	No	Medium
010	C	11.9	9/1/2023	1:06:52	14	1	14.64	>4	>4	3	>4 to 3	18.96	18.56	19.48	No	0.92	1.77	No	No	No	No	Medium
010	D	11.9	9/1/2023	1:08:05	14	1	14.64	>4	>4	3	>4 to 3	19.65	19.30	20.06	No	0.77	3.15	No	No	No	No	Medium
011	A	13.1	9/1/2023	0:39:03	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	19.80	19.42	20.06	No	0.64	3.15	No	No	No	No	Medium
011	B	13.1	9/1/2023	0:40:19	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	17.45	15.78	18.63	No	2.84	IND	No	No	No	No	Medium
011	C	13.1	9/1/2023	0:41:38	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	18.71	18.42	18.99	No	0.57	1.92	No	No	No	No	Medium
012	B	14.9	9/1/2023	0:16:47	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	15.93	15.52	16.52	No	1.00	IND	No	No	No	IND	Medium
012	C	14.9	9/1/2023	0:18:20	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	15.71	15.40	16.01	No	0.61	1.14	No	No	No	No	Medium
012	D	14.9	9/1/2023	0:19:40	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	15.62	15.21	16.04	No	0.83	2.15	No	No	No	No	Medium
013	B	13.7	9/1/2023	5:36:27	14	2	14.64	4 to 3/>4	>4	-1	>4 to -1	16.36	16.06	16.55	No	0.49	1.08	No	No	Yes	IND	Medium
013	C	13.7	9/1/2023	5:37:50	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	16.12	15.79	16.45	No	0.67	0.70	No	No	Yes	No	Medium
013	D	13.7	9/1/2023	5:39:45	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	17.04	16.81	17.41	No	0.60	0.67	No	No	Yes	No	Medium
014	A	13.4	9/1/2023	5:50:52	14	2	14.64	4 to 3	>4	3	>4 to 3	16.16	15.87	16.52	No	0.66	1.21	No	No	No	No	Medium
014	B	13.4	9/1/2023	5:52:13	14	2	14.64	4 to 3	>4	0	>4 to 0	16.50	15.76	17.26	No	1.50	2.59	No	No	No	No	Medium
014	D	13.4	9/1/2023	5:55:12	14	2	14.64	4 to 3	>4	-1	>4 to -1	13.98	13.67	14.35	No	0.68	2.03	No	No	No	No	Medium
015	A	13.1	9/1/2023	6:22:57	14	2	14.64	4 to 3	>4	0	>4 to 0	16.95	16.73	17.26	No	0.53	3.21	No	No	No	No	Medium
015	B	13.1	9/1/2023	6:24:37	14	2	14.64	4 to 3	>4	0	>4 to 0	16.86	16.62	17.16	No	0.54	3.14	No	No	No	No	Medium
015	C	13.1	9/1/2023	6:26:28	14	2	14.64	4 to 3	>4	0	>4 to 0	17.03	16.53	17.65	No	1.12	4.08	No	No	No	No	Medium
016	B	12.2	9/1/2023	6:47:11	14	2	14.64	>4	>4	-1	>4 to -1	15.50	14.08	16.99	No	2.91	IND	No	No	No	No	High
016	C	12.2	9/1/2023	6:48:28	14	2	14.64	>4	>4	-1	>4 to -1	15.79	15.10	16.23	No	1.13	IND	No	No	No	No	Medium
016	D	12.2	9/1/2023	6:49:37	14	2	14.64	>4	>4	-1	>4 to -1	16.02	14.57	16.99	No	2.42	0.99	No	No	No	No	Medium
017	B	13.7	9/1/2023	7:14:45	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	10.31	9.12	11.16	No	2.04	2.73	No	No	No	No	Medium
017	C	13.7	9/1/2023	7:16:01	14	2	14.64	4 to 3/>4	>4	-1	>4 to -1	12.86	12.33	13.38	No	1.05	1.09	No	No	No	No	Medium
017	D	13.7	9/1/2023	7:17:21	14	2	14.64	4 to 3/>4	>4	-1	>4 to -1	11.86	11.24	12.28	No	1.04	2.08	No	No	No	No	Medium
018	I	12.5	9/1/2023	16:15:52	14	5	14.64	3 to 2	>4	-1	>4 to -1	5.78	4.16	7.33	No	3.16	2.97	No	No	No	No	Medium
018	J	12.5	9/1/2023	16:17:14	14	5	14.64	3 to 2	>4	-1	>4 to -1	4.33	3.74	4.94	No	1.20	2.33	No	No	No	No	Medium
018	K	12.5	9/1/2023	16:18:30	14	5	14.64	3 to 2/4 to 3	>4	-1	>4 to -1	7.19	6.51	7.67	No	1.16	2.55	No	No	No	No	Medium
019	B	13.4	8/31/2023	22:46:21	14	1	14.64	3 to 2	>4	0	>4 to 0	8.02	7.69	8.50	No	0.81	IND	No	No	No	No	Low
019	C	13.4	8/31/2023	22:48:08	14	1	14.64	3 to 2	>4	2	>4 to 2	6.81	6.57	7.45	No	0.87	IND	No	No	No	No	Low
019	D	13.4	8/31/2023	22:49:09	14	1	14.64	4 to 3	>4	-1	>4 to -1	5.28	4.91	5.70	No	0.78	IND	No	No	No	No	Medium
020	B	12.2	9/1/2023	7:55:06	14	2	14.64	4 to 3	>4	-3	>4 to -3	1.88	1.01	2.71	No	1.71	IND	No	No	No	No	Medium
020	C	12.2	9/1/2023	7:57:33	14	2	14.64	4 to 3	>4	-1	>4 to -1	9.01	8.58	9.47	No	0.89	IND	No	No	No	No	Medium

Station ID	Replicate	Water Depth (m)	Date	Time	Stop Collar Setting (in)	Weights per Side (#)	Image Width (cm)	Grain Size Major Mode (phi)[1]	Grain Size Minimum (phi)	Grain Size Maximum (phi)	Grain Size Range (phi)	Penetration Mean (cm)	Penetration Minimum (cm)	Penetration Maximum (cm)	Over-penetration?	Boundary Roughness (cm)	aRPD Mean (cm)	aRPD > Pen	Beggiatoa Present?	Methane Present?	Low DO Present?	Sediment Oxygen Demand
020	D	12.2	9/1/2023	8:16:16	14	2	14.64	3 to 2	>4	-1	>4 to -1	10.77	10.21	11.53	No	1.32	IND	No	No	No	No	Medium
021	A	10.4	9/1/2023	16:29:49	14	5	14.64	3 to 2	>4	-1	>4 to -1	7.61	6.37	8.50	No	2.13	IND	No	No	No	No	Medium
021	B	10.4	9/1/2023	16:30:57	14	5	14.64	3 to 2	>4	-2	>4 to -2	8.08	7.75	8.42	No	0.67	IND	No	No	No	No	Medium
021	D	10.4	9/1/2023	16:33:25	14	5	14.64	3 to 2	>4	-1	>4 to -1	7.52	6.56	8.13	No	1.58	IND	No	No	No	No	Medium
022	A	10.4	9/1/2023	13:02:50	14	2	14.64	4 to 3	>4	-2	>4 to -2	5.76	5.31	6.42	No	1.12	IND	No	No	No	No	Low
022	B	10.1	9/1/2023	16:43:18	14	5	14.64	3 to 2	>4	-1	>4 to -1	12.42	11.85	12.92	No	1.07	IND	No	No	No	No	Low
022	C	10.1	9/1/2023	16:45:01	14	5	14.64	3 to 2	>4	-1	>4 to -1	8.02	7.42	8.72	No	1.30	IND	No	No	No	No	Low
023	A	13.1	9/1/2023	16:54:17	14	5	14.64	4 to 3	>4	-1	>4 to -1	8.19	7.56	8.74	No	1.18	2.86	No	No	No	No	Medium
023	B	13.1	9/1/2023	16:55:35	14	5	14.64	4 to 3	>4	0	>4 to 0	7.49	5.89	8.57	No	2.69	IND	No	No	No	No	Medium
023	C	13.1	9/1/2023	16:56:37	14	5	14.64	4 to 3	>4	-1	>4 to -1	7.49	6.64	8.32	No	1.68	IND	No	No	No	No	Low
024	A	17.4	9/1/2023	12:40:11	14	2	14.64	4 to 3	>4	-1	>4 to -1	3.06	2.79	3.59	No	0.81	IND	No	No	No	No	Low
024	E	16.2	9/1/2023	17:08:05	14	5	14.64	4 to 3	>4	-1	>4 to -1	4.78	4.59	5.21	No	0.61	1.60	No	No	No	No	Medium
024	F	16.2	9/1/2023	17:09:27	14	5	14.64	4 to 3	>4	-1	>4 to -1	4.80	4.07	5.21	No	1.14	2.26	No	No	No	No	Medium
025	A	25.0	9/1/2023	12:20:41	14	2	14.64	1 to 0/>4	>4	-1	>4 to -1	4.69	4.17	5.18	No	1.01	IND	No	No	No	No	Medium
025	C	25.0	9/1/2023	12:22:55	14	2	14.64	1 to 0/>4	>4	-2	>4 to -2	7.08	6.72	7.50	No	0.77	2.93	No	No	No	No	Medium
025	G	23.5	9/1/2023	17:27:29	14	5	14.64	3 to 2/>4	>4	2	>4 to 2	10.62	9.63	11.18	No	1.55	2.50	No	No	No	No	Medium
026	A	29.9	9/1/2023	11:56:35	14	2	14.64	4 to 3	>4	-1	>4 to -1	11.16	10.49	11.62	No	1.13	5.88	No	No	No	No	Medium
026	B	29.9	9/1/2023	11:58:09	14	2	14.64	4 to 3	>4	-1	>4 to -1	4.37	3.85	4.91	No	1.06	IND	No	No	No	No	Medium
026	C	29.9	9/1/2023	11:59:35	14	2	14.64	4 to 3/>4	>4	-1	>4 to -1	7.21	6.09	8.20	No	2.12	4.47	No	No	No	No	Medium
027	B	31.1	9/1/2023	11:31:40	14	2	14.64	4 to 3	>4	0	>4 to 0	3.95	3.59	4.67	No	1.07	IND	No	No	No	No	IND
027	D	31.1	9/1/2023	11:34:52	14	2	14.64	4 to 3	>4	-1	>4 to -1	2.62	1.79	3.11	No	1.32	IND	No	No	No	No	IND
027	E	29.9	9/1/2023	17:38:00	14	5	14.64	4 to 3	>4	-2	>4 to -2	4.46	3.78	5.23	No	1.45	IND	No	No	No	No	Low
028	A	27.4	9/1/2023	11:13:12	14	2	14.64	4 to 3	>4	0	>4 to 0	3.64	3.44	4.13	No	0.68	IND	No	No	No	No	Medium
028	E	26.8	9/1/2023	17:53:13	14	5	14.64	4 to 3	>4	0	>4 to 0	4.59	3.82	5.64	No	1.82	IND	No	No	No	No	Low
028	H	26.8	9/1/2023	17:57:47	14	5	14.64	4 to 3	>4	3	>4 to 3	12.20	11.84	12.70	No	0.85	IND	No	No	No	No	Medium
029	C	17.7	9/1/2023	9:00:54	14	2	14.64	>4	>4	3	>4 to 3	17.43	16.70	18.94	No	2.24	IND	No	No	No	No	Medium
029	D	17.7	9/1/2023	9:03:14	14	2	14.64	>4	>4	3	>4 to 3	15.48	14.62	16.50	No	1.88	IND	No	No	Yes	No	Medium
029	E	17.7	9/1/2023	9:05:13	14	2	14.64	>4	>4	3	>4 to 3	16.09	14.53	16.93	No	2.39	2.02	No	No	No	No	Medium
030	B	12.8	9/1/2023	9:24:02	14	2	14.64	>4	>4	0	>4 to 0	18.32	16.78	19.38	No	2.60	IND	No	No	No	No	Medium
030	C	12.8	9/1/2023	9:25:46	14	2	14.64	>4	>4	3	>4 to 3	16.88	16.22	17.67	No	1.45	IND	No	No	No	No	Medium
030	D	12.8	9/1/2023	9:27:21	14	2	14.64	>4	>4	3	>4 to 3	16.33	15.97	16.94	No	0.97	IND	No	No	No	No	Medium
031	A	11.3	9/1/2023	9:41:34	14	2	14.64	4 to 3	>4	0	>4 to 0	14.37	14.05	14.99	No	0.94	0.87	No	No	No	No	Medium
031	B	11.3	9/1/2023	9:43:04	14	2	14.64	4 to 3	>4	0	>4 to 0	15.74	14.47	16.60	No	2.13	3.95	No	No	No	No	Medium
031	C	11.3	9/1/2023	9:44:44	14	2	14.64	4 to 3	>4	2	>4 to 2	16.31	16.11	16.50	No	0.39	2.34	No	No	No	No	Medium
032	A	10.4	9/1/2023	9:57:32	14	2	14.64	4 to 3	>4	3	>4 to 3	15.70	13.38	18.01	No	4.63	IND	No	No	No	No	Medium
032	B	10.4	9/1/2023	9:59:06	14	2	14.64	4 to 3	>4	2	>4 to 2	16.96	16.67	17.31	No	0.64	IND	No	No	Yes	No	Medium
032	D	10.4	9/1/2023	10:02:50	14	2	14.64	4 to 3	>4	3	>4 to 3	17.93	17.67	18.28	No	0.62	1.62	No	No	No	No	Medium
033	A	9.8	9/1/2023	10:16:33	14	2	14.64	4 to 3	>4	3	>4 to 3	17.65	17.41	18.21	No	0.80	2.21	No	No	No	No	Medium
033	C	9.8	9/1/2023	10:19:29	14	2	14.64	4 to 3	>4	3	>4 to 3	18.10	17.41	19.07	No	1.66	1.69	No	No	No	No	Medium
033	D	9.8	9/1/2023	10:21:00	14	2	14.64	4 to 3	>4	3	>4 to 3	16.58	16.30	17.11	No	0.81	1.88	No	No	No	No	Medium
034	A	8.8	9/1/2023	19:14:31	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	19.22	18.79	19.80	No	1.01	2.07	No	No	Yes	No	Medium
034	B	8.8	9/1/2023	19:15:44	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	18.23	17.78	18.80	No	1.02	1.59	No	No	No	No	Medium
034	D	8.8	9/1/2023	19:18:15	14	2	14.64	4 to 3/>4	>4	0	>4 to 0	18.74	18.14	19.53	No	1.39	2.87	No	No	IND	No	Medium
035	B	9.1	9/1/2023	19:37:36	14	0	14.64	4 to 3	>4	0	>4 to 0	17.25	16.55	17.92	No	1.37	1.20	No	No	No	No	Medium
035	C	9.1	9/1/2023	19:39:11	14	0	14.64	4 to 3	>4	0	>4 to 0	17.34	16.67	17.94	No	1.27	2.13	No	No	No	No	Medium
035	D	9.1	9/1/2023	19:40:39	14	0	14.64	4 to 3	>4	0	>4 to 0	17.36	17.05	18.06	No	1.01	IND	No	No	Yes	No	Medium
036	B	9.5	9/1/2023	19:55:36	14	0	14.64	4 to 3	>4	0	>4 to 0	17.99	17.45	18.60	No	1.15	1.30	No	No	No	No	Medium
036	C	9.5	9/1/2023	19:57:11	14	0	14.64	4 to 3	>4	0	>4 to 0	16.87	16.07	17.53	No	1.46	2.20	No	No	No	No	Medium
036	D	9.5	9/1/2023	19:58:36	14	0	14.64	4 to 3/>4	>4	0	>4 to 0	16.91	16.38	17.42	No	1.04	2.01	No	No	No	No	Medium
037	A	10.1	9/1/2023	20:11:18	14	0	14.64	4 to 3	>4	0	>4 to 0	16.58	16.36	17.09	No	0.73	0.59	No	No	No	No	Medium
037	C	10.1	9/1/2023	20:15:27	14	0	14.64	4 to 3	>4	1	>4 to 1	17.08	16.63	17.70	No	1.07	1.87	No	No	No	No	Medium
037	D	10.1	9/1/2023	20:16:30	14	0	14.64	4 to 3	>4	3	>4 to 3	17.08	16.45	17.92	No	1.47	3.07	No	No	No	No	Medium
038	E	11.0	9/1/2023	21:11:32	14	5	14.64	3 to 2	>4	0	>4 to 0	8.79	8.29	9.55	No	1.26	2.85	No	No	No	No	Medium
038	F	11.0	9/1/2023	21:12:49	14	5	14.64	3 to 2/>4	>4	0	>4 to 0	10.12	9.47	10.65	No	1.18	3.26	No	No	No	No	Medium
038	G	11.0	9/1/2023	21:14:00	14	5	14.64	3 to 2/>4	>4	0	>4 to 0	9.53	9.21	10.06	No	0.85	3.32	No	No	No	No	Medium
039	A	8.5	9/1/2023	21:21:56	14	5	14.64	4 to 3	>4	0	>4 to 0	5.90	5.32	6.92	No	1.59	IND	No	No	No	No	Medium
039	B	8.5	9/1/2023	21:22:51	14	5	14.64	4 to 3	>4	3	>4 to 3	6.83	6.44	7.20	No	0.77	IND	No	No	No	No	Medium

Station ID	Replicate	Water Depth (m)	Date	Time	Stop Collar Setting (in)	Weights per Side (#)	Image Width (cm)	Grain Size Major Mode (phi)[1]	Grain Size Minimum (phi)	Grain Size Maximum (phi)	Grain Size Range (phi)	Penetration Mean (cm)	Penetration Minimum (cm)	Penetration Maximum (cm)	Over-penetration?	Boundary Roughness (cm)	aRPD Mean (cm)	aRPD > Pen	Beggiatoa Present?	Methane Present?	Low DO Present?	Sediment Oxygen Demand
039	D	8.5	9/1/2023	21:24:53	14	5	14.64	4 to 3	>4	3	>4 to 3	6.53	5.14	7.84	No	2.70	IND	No	No	No	No	Medium
040	A	8.8	9/1/2023	21:39:00	14	5	14.64	4 to 3	>4	3	>4 to 3	7.29	6.32	8.06	No	1.74	IND	No	No	No	No	Medium
040	B	8.8	9/1/2023	21:40:23	14	5	14.64	4 to 3	>4	3	>4 to 3	5.96	4.92	7.04	No	2.11	IND	No	No	No	No	Medium
040	C	8.8	9/1/2023	21:41:46	14	5	14.64	4 to 3	>4	3	>4 to 3	6.30	5.09	7.45	No	2.36	IND	No	No	No	No	Medium
041	A	8.8	9/1/2023	21:56:09	14	5	14.64	IND	>4	3	>4 to 3	7.62	6.64	8.23	No	1.60	IND	No	No	No	No	IND
041	C	8.8	9/1/2023	21:59:44	14	5	14.64	>4	>4	IND	>4 to IND	12.79	12.49	13.19	No	0.69	IND	No	No	No	No	IND
041	D	8.8	9/1/2023	22:00:59	14	5	14.64	4 to 3	>4	3	>4 to 3	7.18	3.92	8.40	No	4.48	IND	No	No	No	No	IND
042	A	9.8	9/1/2023	22:15:31	14	5	14.64	>4	>4	IND	>4 to IND	8.66	8.28	9.13	No	0.85	IND	No	No	No	No	IND
042	B	9.8	9/1/2023	22:17:06	14	5	14.64	>4	>4	IND	>4 to IND	6.26	5.46	6.82	No	1.35	IND	No	No	No	No	IND
042	D	9.8	9/1/2023	22:19:12	14	5	14.64	4 to 3	>4	3	>4 to 3	5.14	4.24	5.82	No	1.57	IND	No	No	No	No	IND
043	A	11.3	9/1/2023	22:32:35	14	5	14.64	4 to 3/>4	>4	3	>4 to 3	12.43	12.11	12.99	No	0.88	IND	No	No	No	No	Medium
043	B	11.3	9/1/2023	22:33:51	14	5	14.64	4 to 3	>4	3	>4 to 3	11.61	10.63	12.28	No	1.64	IND	No	No	No	No	Medium
043	C	11.3	9/1/2023	22:35:08	14	5	14.64	4 to 3/>4	>4	3	>4 to 3	9.03	7.68	10.06	No	2.38	IND	No	No	No	No	Medium
044	B	10.4	9/1/2023	22:51:52	14	5	14.64	4 to 3/>4	>4	3	>4 to 3	12.58	11.83	13.21	No	1.38	IND	No	No	No	No	Medium
044	C	10.4	9/1/2023	22:53:11	14	5	14.64	4 to 3/>4	>4	3	>4 to 3	12.85	12.59	13.33	No	0.74	IND	No	No	No	No	Medium
044	D	10.4	9/1/2023	22:54:31	14	5	14.64	4 to 3	>4	3	>4 to 3	9.11	8.82	9.57	No	0.76	IND	No	No	No	No	Medium
045	A	10.1	9/1/2023	23:40:44	14	5	14.64	4 to 3/>4	>4	3	>4 to 3	14.42	13.78	15.03	No	1.26	IND	No	No	No	No	Medium
045	B	10.1	9/1/2023	23:42:26	14	5	14.64	>4	>4	IND	>4 to IND	12.55	12.03	12.97	No	0.94	IND	No	No	No	No	Medium
045	D	10.1	9/1/2023	23:44:53	14	5	14.64	4 to 3	>4	0	>4 to 0	9.37	8.82	10.16	No	1.34	IND	No	No	No	No	Medium
046	B	10.7	9/1/2023	23:57:45	14	5	14.64	4 to 3/>4	>4	-1	>4 to -1	13.05	12.10	13.72	No	1.62	IND	No	No	No	No	Medium
046	C	10.7	9/1/2023	23:58:56	14	5	14.64	>4	>4	3	>4 to 3	12.12	11.79	13.04	No	1.24	IND	No	No	No	No	Medium
046	D	10.7	9/1/2023	23:59:58	14	5	14.64	>4	>4	3	>4 to 3	11.44	10.88	11.75	No	0.87	IND	No	No	No	No	Medium
047	A	11.3	9/2/2023	0:13:37	14	5	14.64	4 to 3/>4	>4	3	>4 to 3	11.38	11.02	11.97	No	0.95	IND	No	No	No	No	Medium
047	B	11.3	9/2/2023	0:14:50	14	5	14.64	4 to 3	>4	3	>4 to 3	9.88	9.14	10.25	No	1.11	IND	No	No	No	No	Medium
047	C	11.3	9/2/2023	0:16:15	14	5	14.64	3 to 2/>4	>4	0	>4 to 0	9.83	8.99	10.79	No	1.80	IND	No	No	No	No	Medium
048	A	11.0	9/2/2023	0:30:58	14	5	14.64	3 to 2/>4	>4	0	>4 to 0	9.62	8.89	10.23	No	1.34	5.26	No	No	No	No	Medium
048	C	11.0	9/2/2023	0:33:37	14	5	14.64	3 to 2	>4	0	>4 to 0	6.48	6.02	6.98	No	0.96	2.16	No	No	No	No	Low
048	D	11.0	9/2/2023	0:35:03	14	5	14.64	4 to 3/>4	>4	1	>4 to 1	9.05	8.60	9.67	No	1.08	2.70	No	No	No	No	Medium
049	A	10.7	9/2/2023	0:45:43	14	5	14.64	3 to 2	>4	0	>4 to 0	5.50	5.00	6.23	No	1.22	1.44	No	No	No	No	Medium
049	B	10.7	9/2/2023	0:46:52	14	5	14.64	3 to 2	>4	0	>4 to 0	5.18	4.86	5.64	No	0.78	3.07	No	No	No	No	Medium
049	C	10.7	9/2/2023	0:48:10	14	5	14.64	3 to 2	>4	0	>4 to 0	7.71	6.76	9.03	No	2.27	5.38	No	No	No	No	Low
050	A	10.7	9/2/2023	1:00:34	14	5	14.64	3 to 2	>4	0	>4 to 0	10.29	9.84	10.74	No	0.90	3.53	No	No	No	No	Medium
050	B	10.7	9/2/2023	1:01:43	14	5	14.64	3 to 2	>4	1	>4 to 1	9.35	8.77	10.25	No	1.49	3.24	No	No	No	No	Medium
050	E	10.7	9/2/2023	1:05:55	14	5	14.64	3 to 2	>4	0	>4 to 0	8.53	8.14	8.94	No	0.80	2.47	No	No	No	No	Medium
051	A	15.2	9/2/2023	1:18:57	14	5	14.64	4 to 3	>4	0	>4 to 0	16.06	14.50	17.04	No	2.54	3.02	No	No	No	No	Medium
051	C	15.2	9/2/2023	1:21:54	14	5	14.64	4 to 3	>4	2	>4 to 2	16.37	15.28	17.23	No	1.95	2.99	No	No	No	No	Medium
051	D	15.2	9/2/2023	1:23:16	14	5	14.64	4 to 3	>4	0	>4 to 0	15.85	14.48	17.09	No	2.61	2.90	No	No	No	No	Medium
052	A	15.2	9/2/2023	1:35:16	14	5	14.64	3 to 2/>4	>4	0	>4 to 0	15.97	15.24	16.40	No	1.16	IND	No	No	No	No	Medium
052	B	15.2	9/2/2023	1:36:39	14	5	14.64	3 to 2/>4	>4	0	>4 to 0	15.55	14.59	16.50	No	1.91	IND	No	No	No	No	Medium
052	C	15.2	9/2/2023	1:37:58	14	5	14.64	3 to 2/>4	>4	0	>4 to 0	16.99	16.14	17.53	No	1.38	IND	No	No	No	No	Medium
053	B	14.3	9/2/2023	1:51:27	14	5	14.64	4 to 3	>4	1	>4 to 1	5.91	5.69	6.28	No	0.59	4.10	No	No	No	No	Low
053	C	14.3	9/2/2023	1:52:46	14	5	14.64	4 to 3	>4	0	>4 to 0	6.06	5.45	6.52	No	1.08	2.93	No	No	No	No	Medium
053	D	14.3	9/2/2023	1:54:10	14	5	14.64	4 to 3	>4	0	>4 to 0	8.00	7.15	8.69	No	1.54	4.54	No	No	No	No	Medium
054	A	17.7	9/2/2023	2:03:44	14	5	14.64	3 to 2	>4	2	>4 to 2	4.01	3.62	4.50	No	0.88	1.71	No	No	No	No	Low
054	B	17.7	9/2/2023	2:05:21	14	5	14.64	3 to 2	>4	0	>4 to 0	4.10	3.33	4.72	No	1.38	2.09	No	No	No	No	Low
054	C	17.7	9/2/2023	2:06:47	14	5	14.64	3 to 2	>4	-1	>4 to -1	3.62	2.93	4.40	No	1.47	1.82	No	No	No	No	Medium
055	A	18.9	9/2/2023	2:19:21	14	5	14.64	2 to 1	>4	0	>4 to 0	4.97	4.55	5.64	No	1.09	2.90	No	No	No	No	Low
055	B	18.9	9/2/2023	2:21:03	14	5	14.64	3 to 2	>4	-1	>4 to -1	6.89	6.59	7.50	No	0.90	2.72	No	No	No	No	Medium
055	C	18.9	9/2/2023	2:22:34	14	5	14.64	3 to 2	>4	-1	>4 to -1	4.53	4.10	5.35	No	1.24	3.39	No	No	No	No	Medium
056	A	20.4	9/2/2023	12:20:00	14	5	14.64	2 to 1	>4	0	>4 to 0	6.21	5.79	6.79	No	1.00	IND	Yes	No	No	No	Medium
056	C	20.4	9/2/2023	12:22:18	14	5	14.64	3 to 2	>4	0	>4 to 0	7.08	6.52	8.69	No	2.17	IND	No	No	No	No	Medium
056	D	60.0	9/2/2023	12:23:22	14	5	14.64	3 to 2	>4	0	>4 to 0	5.65	3.58	6.38	No	2.80	1.92	No	No	No	No	Medium
057	A	20.4	9/2/2023	12:05:24	14	5	14.64	4 to 3	>4	-2	>4 to -2	4.53	3.96	5.01	No	1.05	2.45	No	No	No	No	Medium
057	B	20.4	9/2/2023	12:06:40	14	5	14.64	3 to 2	>4	0	>4 to 0	4.05	3.62	4.43	No	0.81	IND	No	No	No	No	Medium

Station ID	Replicate	Water Depth (m)	Date	Time	Stop Collar Setting (in)	Weights per Side (#)	Image Width (cm)	Grain Size Major Mode (phi)[1]	Grain Size Minimum (phi)	Grain Size Maximum (phi)	Grain Size Range (phi)	Penetration Mean (cm)	Penetration Minimum (cm)	Penetration Maximum (cm)	Over-penetration?	Boundary Roughness (cm)	aRPD Mean (cm)	aRPD > Pen	Beggiatoa Present?	Methane Present?	Low DO Present?	Sediment Oxygen Demand
057	D	20.4	9/2/2023	12:08:35	14	5	14.64	3 to 2	>4	-1	>4 to -1	4.92	4.08	5.52	No	1.44	2.24	No	No	No	No	Medium
058	A	16.8	9/2/2023	11:49:59	14	5	14.64	1 to 0	>4	0	>4 to 0	7.51	6.52	8.40	No	1.88	IND	No	No	No	No	Low
058	B	16.8	9/2/2023	11:51:23	14	5	14.64	1 to 0	>4	-1	>4 to -1	5.51	5.09	6.28	No	1.19	IND	No	No	No	No	Low
058	C	16.8	9/2/2023	11:52:40	14	5	14.64	1 to 0	>4	0	>4 to 0	6.65	5.62	8.06	No	2.45	IND	No	No	No	No	Medium
059	A	12.8	9/2/2023	11:36:33	14	5	14.64	2 to 1	>4	0	>4 to 0	9.33	8.99	9.84	No	0.85	5.71	No	No	No	No	Low
059	B	12.8	9/2/2023	11:37:51	14	5	14.64	2 to 1	>4	0	>4 to 0	7.20	6.37	7.86	No	1.50	3.20	No	No	No	No	Low
059	C	12.8	9/2/2023	11:39:10	14	5	14.64	3 to 2	>4	0	>4 to 0	6.03	5.57	6.57	No	1.00	2.57	No	No	No	No	Low
060	B	17.4	9/2/2023	11:25:40	14	5	14.64	3 to 2	>4	0	>4 to 0	4.15	3.68	4.55	No	0.87	1.85	No	No	No	No	Low
060	C	17.4	9/2/2023	11:26:54	14	5	14.64	4 to 3	>4	0	>4 to 0	3.87	2.74	4.89	No	2.15	1.41	No	No	No	No	Low
060	D	17.4	9/2/2023	11:28:16	14	5	14.64	3 to 2	>4	1	>4 to 1	3.62	2.33	4.47	No	2.14	IND	No	No	No	No	Low
061	A	20.7	9/2/2023	11:12:29	14	5	14.64	2 to 1	>4	0	>4 to 0	3.77	3.20	4.35	No	1.15	IND	No	No	No	No	Low
061	B	20.7	9/2/2023	11:14:08	14	5	14.64	2 to 1	>4	0	>4 to 0	8.24	7.35	9.08	No	1.73	1.14	No	No	No	No	Low
061	D	20.7	9/2/2023	11:17:02	14	5	14.64	2 to 1	>4	0	>4 to 0	6.77	6.27	7.67	No	1.39	IND	No	No	No	No	Low
062	A	18.0	9/2/2023	6:37:50	14	5	14.64	2 to 1	>4	0	>4 to 0	9.68	8.87	10.06	No	1.19	IND	No	No	No	No	Low
062	D	18.0	9/2/2023	6:44:04	14	5	14.64	2 to 1	>4	0	>4 to 0	5.62	4.78	6.70	No	1.92	IND	No	No	No	No	Low
062	E	18.0	9/2/2023	6:46:10	14	5	14.64	2 to 1	>4	-1	>4 to -1	5.88	4.93	6.67	No	1.73	IND	No	No	No	No	Low
063	A	18.9	9/2/2023	6:18:12	14	5	14.64	2 to 1	>4	-1	>4 to -1	4.15	2.91	5.06	No	2.15	IND	No	No	No	No	Low
063	B	18.9	9/2/2023	6:19:46	14	5	14.64	2 to 1	>4	0	>4 to 0	4.12	3.69	4.94	No	1.25	IND	No	No	No	No	Low
063	C	18.9	9/2/2023	6:21:10	14	5	14.64	2 to 1	>4	0	>4 to 0	5.88	5.00	6.45	No	1.44	IND	No	No	No	No	Low
064	A	17.4	9/2/2023	5:59:13	14	5	14.64	2 to 1	>4	-1	>4 to -1	13.20	12.64	13.87	No	1.23	IND	No	No	No	No	Low
064	B	17.4	9/2/2023	6:00:45	14	5	14.64	2 to 1	>4	0	>4 to 0	7.36	5.36	8.98	No	3.62	IND	No	No	No	No	Low
064	C	17.4	9/2/2023	6:02:12	14	5	14.64	2 to 1	>4	-1	>4 to -1	7.39	7.14	7.67	No	0.53	IND	No	No	No	No	Low
065	A	12.2	9/2/2023	5:38:52	14	5	14.64	3 to 2	>4	0	>4 to 0	2.28	1.35	3.03	No	1.68	IND	No	No	No	No	Low
065	C	12.2	9/2/2023	5:40:59	14	5	14.64	3 to 2	>4	0	>4 to 0	1.85	1.23	2.70	No	1.48	IND	No	No	No	No	Low
065	D	12.2	9/2/2023	5:42:11	14	5	14.64	3 to 2	>4	2	>4 to 2	2.74	2.24	3.50	No	1.26	IND	No	No	No	No	Low
066	A	8.5	9/2/2023	5:23:13	14	5	14.64	2 to 1	>4	1	>4 to 1	5.35	4.47	5.94	No	1.46	IND	No	No	No	No	Low
066	C	8.5	9/2/2023	5:25:37	14	5	14.64	2 to 1	>4	0	>4 to 0	7.16	6.22	7.76	No	1.55	IND	No	No	No	No	Low
066	D	8.5	9/2/2023	5:27:00	14	5	14.64	2 to 1	>4	0	>4 to 0	6.99	6.69	7.30	No	0.61	IND	No	No	No	No	Low
067	A	6.1	9/2/2023	5:09:03	14	5	14.64	2 to 1	>4	0	>4 to 0	9.48	9.18	9.77	No	0.59	IND	No	No	No	No	Low
067	C	6.1	9/2/2023	5:11:25	14	5	14.64	2 to 1	>4	0	>4 to 0	7.56	7.28	7.82	No	0.54	IND	No	No	No	No	Low
067	D	6.1	9/2/2023	5:12:26	14	5	14.64	2 to 1	>4	0	>4 to 0	9.13	9.00	9.30	No	0.30	IND	No	No	No	No	Low
068	A	6.1	9/2/2023	4:11:15	14	5	14.64	2 to 1	>4	-1	>4 to -1	9.31	8.07	9.84	No	1.77	IND	No	No	No	No	Low
068	B	6.1	9/2/2023	4:12:23	14	5	14.64	2 to 1	>4	-1	>4 to -1	7.10	6.04	7.60	No	1.55	IND	No	No	No	No	Low
068	D	6.1	9/2/2023	4:14:23	14	5	14.64	2 to 1	>4	-1	>4 to -1	6.58	3.68	7.91	No	4.24	IND	No	No	No	No	Low
069	A	5.8	9/2/2023	4:22:33	14	5	14.64	2 to 1	>4	0	>4 to 0	7.55	7.00	8.01	No	1.02	IND	No	No	No	No	Low
069	B	5.8	9/2/2023	4:23:43	14	5	14.64	2 to 1	>4	0	>4 to 0	9.86	9.58	10.13	No	0.55	IND	No	No	No	No	Low
069	C	5.8	9/2/2023	4:24:50	14	5	14.64	2 to 1	>4	-2	>4 to -2	4.87	3.85	6.36	No	2.50	IND	No	No	No	No	Low
070	A	5.5	9/2/2023	4:35:16	14	5	14.64	3 to 2	>4	1	>4 to 1	5.71	3.29	7.30	No	4.02	IND	No	No	No	No	Low
070	B	5.5	9/2/2023	4:36:24	14	5	14.64	3 to 2	>4	0	>4 to 0	8.97	7.34	9.67	No	2.34	IND	No	No	No	No	Low
070	C	5.5	9/2/2023	4:37:35	14	5	14.64	3 to 2	>4	0	>4 to 0	8.27	7.76	8.89	No	1.13	IND	No	No	No	No	Low
071	A	5.2	9/2/2023	4:49:31	14	5	14.64	3 to 2	>4	-2	>4 to -2	6.90	6.04	7.48	No	1.43	IND	No	No	No	No	Low
071	C	5.2	9/2/2023	4:51:49	14	5	14.64	3 to 2	>4	-1	>4 to -1	4.92	4.42	5.48	No	1.05	IND	No	No	No	No	Low
071	D	5.2	9/2/2023	4:52:55	14	5	14.64	3 to 2	>4	-2	>4 to -2	4.31	3.66	5.08	No	1.42	IND	No	No	No	No	Low
072	B	6.7	9/2/2023	8:18:48	14	5	14.64	3 to 2	>4	-2	>4 to -2	4.77	3.80	5.48	No	1.68	IND	No	No	No	No	Low
072	C	6.7	9/2/2023	8:20:03	14	5	14.64	0 to -1	>4	-3	>4 to -3	4.53	3.12	5.16	No	2.04	IND	No	No	No	No	Low
072	D	6.7	9/2/2023	8:21:36	14	5	14.64	0 to -1/1 to 0	>4	-2	>4 to -2	4.86	3.75	6.11	No	2.35	IND	No	No	No	No	Low
073	A	7.0	9/2/2023	8:35:18	14	5	14.64	1 to 0	>4	0	>4 to 0	9.12	7.58	9.60	No	2.02	IND	No	No	No	No	Low
073	B	7.0	9/2/2023	8:36:40	14	5	14.64	1 to 0	>4	-1	>4 to -1	9.92	9.70	10.18	No	0.48	IND	No	No	No	No	Low
073	C	7.0	9/2/2023	8:37:49	14	5	14.64	1 to 0	>4	-2	>4 to -2	2.42	1.98	2.84	No	0.86	IND	No	No	No	No	Low
074	A	7.3	9/2/2023	8:51:28	14	5	14.64	2 to 1	>4	-1	>4 to -1	7.19	5.63	8.13	No	2.50	IND	No	No	No	No	Low
074	C	7.3	9/2/2023	8:54:07	14	5	14.64	1 to 0	>4	-3	>4 to -3	4.97	4.72	5.40	No	0.68	IND	No	No	No	No	Low
074	D	7.3	9/2/2023	8:55:19	14	5	14.64	1 to 0	>4	-1	>4 to -1	5.35	4.69	6.45	No	1.75	IND	No	No	No	No	Low
075	B	7.9	9/2/2023	9:10:41	14	5	14.64	1 to 0	>4	0	>4 to 0	7.01	6.41	7.54	No	1.14	IND	No	No	No	No	Low
075	C	7.9	9/2/2023	9:12:00	14	5	14.64	1 to 0	>4	-1	>4 to -1	9.19	8.94	9.72	No	0.78	IND	No	No	No	No	Low
075	D	7.9	9/2/2023	9:13:11	14	5	14.64	1 to 0	>4	-1	>4 to -1	7.79	7.60	8.01	No	0.41	IND	No	No	No	No	Low
076	A	8.1	9/2/2023	9:28:17	14	5	14.64	1 to 0	>4	-1	>4 to -1	7.88	5.63	9.33	No	3.70	IND	No	No	No	No	Low
076	B	8.1	9/2/2023	9:29:27	14	5	14.64	1 to 0	>4	-1	>4 to -1	7.13	6.67	7.40	No	0.73	IND	No	No	No	No	Low
076	C	8.1	9/2/2023	9:30:54	14	5	14.64	1 to 0	>4	0	>4 to 0	7.25	6.68	7.62	No	0.94	IND	No	No	No	No	Low
077	A	7.6	9/2/2023	9:45:20	14	5	14.64	1 to 0	>4	-1	>4 to -1	11.18	10.32	11.55	No	1.23	IND	No	No	No	No	Low
077	B	7.6	9/2/2023	9:46:25	14	5	14.64	1 to 0	>4	-1	>4 to -1	2.99	2.64	3.37	No	0.73	IND	No	No	No	No	Low

Station ID	Replicate	Water Depth (m)	Date	Time	Stop Collar Setting (in)	Weights per Side (#)	Image Width (cm)	Grain Size Major Mode (phi)[1]	Grain Size Minimum (phi)	Grain Size Maximum (phi)	Grain Size Range (phi)	Penetration Mean (cm)	Penetration Minimum (cm)	Penetration Maximum (cm)	Over-penetration?	Boundary Roughness (cm)	aRPD Mean (cm)	aRPD > Pen	Beggiatoa Present?	Methane Present?	Low DO Present?	Sediment Oxygen Demand
077	E	7.6	9/2/2023	9:54:11	14	5	14.64	2 to 1	>4	0	>4 to 0	2.64	2.28	3.25	No	0.97	IND	No	No	No	No	Low
078	A	8.2	9/2/2023	10:10:00	14	5	14.64	1 to 0	>4	0	>4 to 0	9.29	6.47	10.69	No	4.22	IND	No	No	No	No	Low
078	B	8.2	9/2/2023	10:11:04	14	5	14.64	1 to 0	>4	0	>4 to 0	9.06	8.68	9.35	No	0.67	IND	No	No	No	No	Low
078	D	8.2	9/2/2023	10:13:35	14	5	14.64	1 to 0	>4	0	>4 to 0	9.19	8.36	9.84	No	1.48	IND	No	No	No	No	Low
079	A	9.1	9/2/2023	10:25:16	14	5	14.64	1 to 0	>4	0	>4 to 0	5.30	4.56	6.72	No	2.15	IND	No	No	No	No	Low
079	B	9.1	9/2/2023	10:26:32	14	5	14.64	1 to 0	>4	0	>4 to 0	7.84	7.74	8.06	No	0.32	IND	No	No	No	No	Low
079	C	9.1	9/2/2023	10:27:43	14	5	14.64	1 to 0	>4	-1	>4 to -1	8.78	8.31	9.06	No	0.75	IND	No	No	No	No	Low
080	A	10.4	9/2/2023	10:41:43	14	5	14.64	2 to 1	>4	-2	>4 to -2	5.13	4.31	5.82	No	1.51	IND	No	No	No	No	Low
080	B	10.4	9/2/2023	10:43:02	14	5	14.64	2 to 1	>4	-1	>4 to -1	5.84	5.51	6.33	No	0.82	IND	No	No	No	No	Low
080	C	10.4	9/2/2023	10:44:21	14	5	14.64	2 to 1	>4	0	>4 to 0	2.37	1.72	3.37	No	1.65	IND	No	No	No	No	Low
081	A	10.1	9/2/2023	13:43:11	14	5	14.64	2 to 1	>4	0	>4 to 0	5.19	4.25	6.01	No	1.75	IND	No	No	No	No	Low
081	B	10.1	9/2/2023	13:44:44	14	5	14.64	2 to 1	>4	0	>4 to 0	3.69	3.23	4.43	No	1.20	IND	No	No	No	No	Low
081	D	10.1	9/2/2023	13:47:10	14	5	14.64	2 to 1	>4	-1	>4 to -1	3.91	3.50	4.43	No	0.93	IND	No	No	No	No	Low
082	B	10.7	9/2/2023	13:59:14	14	5	14.64	2 to 1	>4	-1	>4 to -1	4.27	3.10	5.26	No	2.15	IND	No	No	No	No	Low
082	C	10.7	9/2/2023	14:00:30	14	5	14.64	2 to 1	>4	-1	>4 to -1	3.54	2.12	4.57	No	2.45	IND	No	No	No	No	Low
082	D	10.7	9/2/2023	14:01:28	14	5	14.64	2 to 1	>4	0	>4 to 0	4.11	3.16	5.16	No	2.00	IND	No	No	No	No	Low
083	B	11.0	9/2/2023	14:12:16	14	5	14.64	2 to 1	>4	0	>4 to 0	4.19	3.18	5.01	No	1.83	IND	No	No	No	No	Low
083	C	11.0	9/2/2023	14:13:15	14	5	14.64	2 to 1	>4	0	>4 to 0	4.78	3.28	5.94	No	2.65	IND	No	No	No	No	Low
083	D	11.0	9/2/2023	14:14:15	14	5	14.64	2 to 1	>4	0	>4 to 0	4.12	3.20	4.96	No	1.76	IND	No	No	No	No	Low
084	A	11.3	9/2/2023	14:27:42	14	5	14.64	2 to 1	>4	-1	>4 to -1	3.95	3.17	4.65	No	1.48	IND	No	No	No	No	Low
084	B	11.3	9/2/2023	14:29:07	14	5	14.64	2 to 1	>4	0	>4 to 0	2.93	2.23	3.67	No	1.44	IND	No	No	No	No	Low
084	D	11.3	9/2/2023	14:31:47	14	5	14.64	2 to 1	>4	-1	>4 to -1	4.37	3.57	5.67	No	2.10	IND	No	No	No	No	Low
085	A	11.0	9/2/2023	14:43:59	14	5	14.64	2 to 1	>4	-1	>4 to -1	4.36	3.96	4.84	No	0.88	IND	No	No	No	No	Low
085	C	11.0	9/2/2023	14:46:47	14	5	14.64	2 to 1	>4	0	>4 to 0	3.92	2.29	4.72	No	2.43	IND	No	No	No	No	Low
085	D	11.0	9/2/2023	14:48:14	14	5	14.64	2 to 1	>4	-1	>4 to -1	4.04	3.09	4.74	No	1.65	IND	No	No	No	No	Low
086	A	11.0	9/2/2023	15:02:48	14	5	14.64	2 to 1	>4	0	>4 to 0	3.83	2.32	5.23	No	2.90	IND	No	No	No	No	Low
086	C	11.0	9/2/2023	15:05:38	14	5	14.64	2 to 1	>4	0	>4 to 0	3.60	2.32	5.52	No	3.20	IND	No	No	No	No	Low
086	E	11.0	9/2/2023	15:08:51	14	5	14.64	2 to 1	>4	0	>4 to 0	3.54	3.10	4.43	No	1.32	IND	No	No	No	No	Low
087	B	10.7	9/2/2023	15:26:28	14	5	14.64	2 to 1	>4	0	>4 to 0	5.70	5.51	5.92	No	0.41	IND	No	No	No	No	Low
087	D	10.7	9/2/2023	15:28:57	14	5	14.64	2 to 1	>4	0	>4 to 0	4.49	3.96	5.13	No	1.17	IND	No	No	No	No	Low
087	E	10.7	9/2/2023	15:30:14	14	5	14.64	2 to 1	>4	0	>4 to 0	3.30	2.64	4.30	No	1.66	IND	No	No	No	No	Low
088	B	10.7	9/2/2023	15:48:48	14	5	14.64	2 to 1	>4	-1	>4 to -1	4.73	3.06	6.57	No	3.52	2.81	No	No	No	No	Low
088	C	10.7	9/2/2023	15:49:45	14	5	14.64	2 to 1	>4	0	>4 to 0	4.82	3.85	5.67	No	1.82	2.59	No	No	No	No	Low
088	D	10.7	9/2/2023	15:50:51	14	5	14.64	2 to 1	>4	0	>4 to 0	4.23	3.52	4.87	No	1.35	IND	No	No	No	No	Low
089	A	10.7	9/2/2023	16:02:30	14	5	14.64	3 to 2	>4	-1	>4 to -1	4.02	2.62	4.99	No	2.37	IND	No	No	No	No	Low
089	B	10.7	9/2/2023	16:04:10	14	5	14.64	3 to 2	>4	-1	>4 to -1	4.94	4.52	5.35	No	0.83	IND	No	No	No	No	Low
089	C	10.7	9/2/2023	16:05:12	14	5	14.64	3 to 2	>4	-1	>4 to -1	5.07	4.00	5.84	No	1.83	2.82	No	No	No	No	Low
090	B	11.3	9/2/2023	16:24:48	14	5	14.64	3 to 2	>4	0	>4 to 0	2.64	2.30	3.01	No	0.71	IND	No	No	No	No	Low
090	C	11.3	9/2/2023	16:26:03	14	5	14.64	3 to 2	>4	0	>4 to 0	2.72	1.74	3.84	No	2.10	IND	No	No	No	No	Low
090	D	11.3	9/2/2023	16:27:29	14	5	14.64	3 to 2	>4	0	>4 to 0	3.52	2.81	4.21	No	1.40	IND	No	No	No	No	Low
091	A	11.3	9/2/2023	16:42:14	14	5	14.64	3 to 2	>4	0	>4 to 0	3.83	2.88	4.94	No	2.05	IND	No	No	No	No	Low
091	C	11.3	9/2/2023	16:45:15	14	5	14.64	3 to 2	>4	-1	>4 to -1	3.56	2.72	4.33	No	1.61	IND	No	No	No	No	Low
091	D	11.3	9/2/2023	16:46:24	14	5	14.64	3 to 2	>4	0	>4 to 0	3.47	2.88	3.99	No	1.10	IND	No	No	No	No	Low

Station ID	Replicate	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	Tubes Present?	Infauna[3]	Sessile Epifauna	Mobile Epifauna	Feeding Voids Present?	Maximum Bioturbation Depth (cm)	Successional Stage[2]	Comments
001	B	None	None	None	No	None	None	None	No	11.71	1 -> 2	Tubes/halo.
001	F	None	None	None	No	None	None	None	Yes	7.99	1 on 3	Tubes/old void.
001	G	None	None	None	Yes	None	None	None	No	10.52	1	
002	D	None	None	None	Yes	None	None	None	No	18.11	1 -> 2	Stage 1 tubes/burrows.
002	E	None	None	None	Yes	None	None	None	Yes	11.98	1 on 3	Stage 1 tubes/burrows/small halo feeder/small void.
002	F	None	None	None	Yes	None	None	None	No	14.54	1	Stage 1 tubes/burrows/deposit feeder.
003	F	None	None	None	Yes	None	None	None	No	11.72	1 -> 2	Stage 1 tubes/burrows/small deposit feeder.
003	G	None	None	None	No	Polychaete	None	None	No	13.82	2 -> 3	Methane bubbles.
003	H	None	None	None	Yes	None	None	None	Yes	12.60	1 on 3	Tubes and active voids.
004	E	None	None	None	Yes	Scaphopods	None	None	Yes	9.44	2 on 3	Scaphopod shell resuspended into water column. Tubes and active voids.
004	F	None	None	None	Yes	None	None	None	Yes	10.44	1 on 3	Small tubes on surface, small void at depth. Tubes/worm/small burrows.
004	H	None	None	None	Yes	None	None	None	No	5.78	1 -> 2	Stage 2 tubes/stage 1 burrows.
005	A	None	None	None	Yes	Polychaete	Bryozoa/Hydroids	None	IND	18.87	2 -> 3	Stage 2 tubes/halos/deposit feeder.
005	B	None	None	None	Yes	None	None	None	Yes	16.50	1 on 3	
005	C	None	None	None	Yes	None	None	None	Yes	19.18	2 on 3	Large tube/deposit feeder/halos.
006	F	None	None	None	Yes	None	None	None	Yes	15.22	1 on 3	Large tube/fecal stack/small burrows/burrow halos/deposit feeder.
006	G	None	None	None	IND	None	None	None	IND	16.84	1 -> 2	Small tubes/small burrows/halos.
006	H	None	None	None	Yes	None	None	None	Yes	15.26	1 on 3	Deposit feeders/halos/filled-in voids.
007	E	None	None	None	Yes	None	None	None	Yes	5.17	2 on 3	Voids/halos/tubes.
007	F	None	None	None	Yes	None	None	None	Yes	15.72	1 on 3	Voids/halos.
007	G	None	None	None	No	None	None	None	No	13.05	2 -> 3	Possible small burrows/halos.
008	E	None	None	None	No	None	None	None	Yes	6.07	1 on 3	Voids/burrows.
008	F	None	None	None	Yes	None	None	None	Yes	15.92	1 on 3	Voids/burrows.
008	H	None	None	None	Yes	None	None	None	No	14.56	2 -> 3	Tubes/small burrows/old void.
009	A	None	None	None	Yes	None	None	None	Yes	11.32	1 on 3	Old void.
009	B	None	None	None	Yes	None	None	None	Yes	16.22	1 on 3	Small void/small tubes.
009	C	None	None	None	Yes	None	None	None	Yes	19.26	1 on 3	Small tubes/old void.
010	B	None	None	None	Yes	None	None	None	IND	16.45	2 -> 3	Small tubes/deposit feeder.
010	C	None	None	None	Yes	None	None	None	No	11.56	1 -> 2	small burrows/old void.
010	D	None	None	None	Yes	Unidentified	None	None	Yes	17.70	1 on 3	Tubes/deposit feeder/small void.
011	A	None	None	None	Yes	None	None	None	Yes	19.94	1 on 3	Tubes/voids/halos.
011	B	None	IND	None	No	Scaphopods	None	None	IND	12.03	1 -> 2	Tubes/small deposit feeder.
011	C	None	None	None	Yes	None	None	None	Yes	18.89	1 on 3	Tubes/small burrows/old void.
012	B	None	None	None	No	None	None	None	Yes	16.40	1 on 3	Large feeding void/tubes.
012	C	None	None	None	Yes	None	None	None	Yes	15.89	1 on 3	Tubes/voids/halos.
012	D	None	IND	None	Yes	None	None	None	Yes	15.92	1 on 3	Tubes/small deposit feeder/voids.
013	B	None	None	None	No	None	None	None	Yes	16.43	1 on 3	Possible voids/deposit feeder.
013	C	None	None	None	No	None	Mollusc	None	Yes	15.92	1 on 3	Methane bubbles on far right. Tubes/voids.
013	D	None	None	None	No	None	Mollusc	None	Yes	14.54	1 on 3	Possible voids/tubes.
014	A	None	IND	None	No	Unidentified	Mollusc	None	Yes	12.66	2 on 3	Small white clams, shallow burrowing. Tubes/voids/deposit feeder.
014	B	None	IND	None	No	None	Mollusc	None	Yes	11.85	1 on 3	Small white clams, shallow burrowing. Voids.
014	D	None	IND	None	No	None	Mollusc	None	Yes	14.23	1 on 3	Small white clams, shallow burrowing. Old void/small burrows.
015	A	None	None	None	No	None	None	None	No	7.71	1 -> 2	Tubes/small deposit feeders.
015	B	None	None	None	IND	None	None	None	Yes	15.58	2 on 3	Tubes/deposit feeders/voids.
015	C	None	None	None	Yes	None	None	None	No	4.32	1 -> 2	Possible tubes/small deposit feeder.
016	B	None	None	None	Yes	None	Anemone	None	Yes	13.80	1 on 3	Tubes/burrows/voids/deposit feeder.
016	C	None	None	IND	Yes	None	Anemone	None	Yes	11.63	2 on 3	Tubes/halos/old void.
016	D	None	None	None	Yes	None	None	None	Yes	11.64	1 on 3	Tubes/old void/burrow.
017	B	None	None	None	Yes	Polychaete	None	None	Yes	11.09	2 on 3	Tubes/burrow/deposit feeder/old void.
017	C	None	None	None	IND	Polychaete	None	None	Yes	11.07	1 on 3	Tubes/deposit feeders/old void.
017	D	None	None	None	Yes	None	None	None	Yes	11.18	1 on 3	Tubes/deposit feeders/old void.
018	I	None	None	None	IND	None	None	None	No	6.47	1 -> 2	Halo/tubes.
018	J	None	None	None	No	None	None	None	No	2.69	1 -> 2	Burrows.
018	K	None	None	None	IND	None	None	None	No	1.19	1 -> 2	Tube/halo.
019	B	None	None	None	Yes	None	Encrusting Bryozoa	None	Yes	3.42	2 on 3	Tubes.
019	C	None	None	None	Yes	None	Encrusting Bryozoa	None	Yes	5.99	2 on 3	Tubes/void.
019	D	None	None	None	Yes	None	None	None	No	4.64	1 -> 2	Tubes.
020	B	None	None	None	No	None	Encrusting Bryozoa	None	No	IND	IND	
020	C	None	None	None	IND	None	Encrusting Bryozoa	None	Yes	4.81	2 on 3	Tubes.

Station ID	Replicate	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	Tubes Present?	Infauna[3]	Sessile Epifauna	Mobile Epifauna	Feeding Voids Present?	Maximum Bioturbation Depth (cm)	Successional Stage[2]	Comments
020	D	None	None	None	IND	None	Anemone	None	Yes	9.65	1 on 3	Void/deposit feeder/halo.
021	A	None	None	None	Yes	None	Encrusting Bryozoa	Crab	No	6.68	2	Tubes/deposit feeder.
021	B	None	None	None	Yes	None	Encrusting Bryozoa	None	Yes	8.00	2 on 3	Possible burrows/tubes/void.
021	D	None	None	None	No	None	None	None	No	IND	1 -> 2	Tube/burrow.
022	A	None	None	None	No	None	None	None	No	4.24	1 -> 2	Possible burrows/tubes/void.
022	B	None	None	None	No	None	None	None	No	11.01	1 -> 2	Burrows/deposit feeder.
022	C	None	None	None	No	None	None	None	No	6.99	1 -> 2	Burrows/deposit feeder.
023	A	None	None	IND	No	None	Encrusting Bryozoa	None	Yes	8.26	2 on 3	Tube/burrow/deposit feeder.
023	B	None	None	None	No	None	Encrusting Bryozoa	None	IND	8.45	1 -> 2	Tube/burrow/deposit feeder.
023	C	None	IND	None	IND	None	Encrusting Bryozoa, Anemone	None	Yes	6.77	2 on 3	Tube/burrow/deposit feeder.
024	A	None	None	None	No	None	Encrusting Bryozoa, Anemone, Mussel	None	No	1.89	IND	
024	E	None	None	None	No	None	Encrusting Bryozoa	None	No	1.24	1 -> 2	Burrows/deposit feeders.
024	F	None	None	None	No	None	Encrusting Bryozoa, Anemone	None	No	3.89	1 -> 2	Burrows/halos.
025	A	None	None	None	Yes	None	Encrusting Bryozoa	None	No	4.39	2	Tubes/burrows.
025	C	None	None	None	No	None	Encrusting Bryozoa	None	No	6.25	IND	
025	G	None	None	None	No	None	Encrusting Bryozoa	None	No	8.39	1 -> 2	Burrow/halos.
026	A	None	None	None	No	None	None	None	IND	11.49	2 -> 3	Possible burrows/old void/deposit feeder.
026	B	None	None	None	No	None	Encrusting Bryozoa	None	No	4.42	IND	
026	C	None	None	None	Yes	Unidentified	None	None	No	5.82	2	Tubes/burrows/deposit feeders.
027	B	None	None	None	No	None	Encrusting Bryozoa, Mussels, Crepidula	None	No	IND	IND	
027	D	None	None	None	No	None	Crepidula	None	No	IND	IND	
027	E	None	None	None	No	None	None	None	No	3.29	1 -> 2	Burrows.
028	A	None	None	None	No	None	None	None	No	IND	IND	
028	E	None	None	None	No	None	None	None	No	IND	IND	
028	H	None	None	None	No	None	Encrusting Bryozoa	None	Yes	12.57	2 on 3	Void/burrows/deposit feeder.
029	C	None	None	None	No	Polychaete	None	None	Yes	17.41	2 on 3	Halos/voids/deposit feeders.
029	D	None	None	None	Yes	None	None	None	Yes	16.38	1 on 3	Many methane bubbles at depth. Tubes/burrows/deposit feeders/voids.
029	E	None	None	None	No	Polychaete	Crepidula	None	No	13.18	2 -> 3	Unidentified fish in image. Burrows/deposit feeders.
030	B	None	None	None	Yes	Polychaete	None	None	Yes	14.96	2 on 3	Tubes/burrows/voids/deposit feeders.
030	C	None	None	None	Yes	Polychaete	None	None	No	17.55	2 -> 3	Tubes/burrows/halos/deposit feeders.
030	D	None	None	None	Yes	None	Bryozoa/Hydroids, Crepidula	None	IND	7.59	1 -> 2	Tubes/burrows/halos.
031	A	None	None	None	Yes	None	None	None	Yes	6.94	2 on 3	Possible tubes/voids/deposit feeder.
031	B	None	None	None	Yes	None	None	None	Yes	16.48	1 on 3	Tube/void.
031	C	None	None	None	No	None	None	None	No	7.30	1 -> 2	Deposit feeder.
032	A	None	None	None	Yes	Polychaete	Crepidula	None	Yes	17.89	2 on 3	Tube/deposit feeder/burrow.
032	B	None	None	None	Yes	Polychaete	None	None	Yes	16.50	2 on 3	Tubes/deposit feeders/burrows/void.
032	D	None	None	None	Yes	None	None	None	Yes	17.35	2 on 3	Tube/burrow/small void/deposit feeder.
033	A	None	None	None	Yes	None	None	None	No	16.82	1 -> 2	Small tubes/small deposit feeder/small burrows.
033	C	None	None	None	Yes	None	None	None	Yes	18.98	1 on 3	Small tubes.
033	D	None	None	None	No	None	None	None	Yes	9.98	1 on 3	Small tubes/burrows.
034	A	None	None	None	IND	None	None	None	Yes	19.69	2 on 3	Tubes/small burrows/void.
034	B	None	None	None	No	Polychaete	None	None	Yes	18.67	1 on 3	Voids/deposit feeder.
034	D	None	None	None	No	Polychaete	None	None	Yes	18.47	1 on 3	Halo/voids/deposit feeder.
035	B	None	None	None	IND	Polychaete	None	None	Yes	17.07	2 on 3	Voids/burrows/deposit feeders/halo.
035	C	None	None	None	Yes	None	None	None	Yes	17.82	2 on 3	Tubes/halo/void/deposit feeder.
035	D	None	None	None	Yes	None	None	None	Yes	12.11	2 on 3	Methane bubbles trapped in void. Possible tubes/voids/burrow/deposit feeder.
036	B	None	None	None	Yes	None	None	None	Yes	17.40	2 on 3	Voids/halos/burrows/deposit feeders.
036	C	None	None	None	No	None	None	None	Yes	17.40	1 on 3	Void/burrows/deposit feeders/small tubes.
036	D	None	None	None	No	None	None	None	Yes	9.40	1 on 3	Burrows/small tubes.
037	A	None	None	None	IND	None	None	None	Yes	15.20	2 on 3	Tubes/voids/halos/deposit feeders.
037	C	None	None	None	Yes	None	None	None	IND	9.50	2 -> 3	Tubes/halos/burrows.
037	D	None	None	None	Yes	None	Bryozoa/Hydroids	None	Yes	17.61	2 on 3	Void/halo/deposit feeder/tubes.
038	E	None	None	None	IND	None	None	None	IND	9.23	2 -> 3	Tube/deposit feeder/burrow.
038	F	None	None	None	Yes	None	None	Hermit Crab	No	3.26	2	Tubes/burrows.
038	G	None	None	None	No	None	Bryozoa/Hydroids	None	No	3.32	2	
039	A	None	None	None	No	None	Crepidula, Bryozoa/Hydroids	None	Yes	6.62	1 on 3	Void/deposit feeder.
039	B	None	None	None	No	None	Encrusting Bryozoa	None	IND	IND	IND	

Station ID	Replicate	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	Tubes Present?	Infauna[3]	Sessile Epifauna	Mobile Epifauna	Feeding Voids Present?	Maximum Bioturbation Depth (cm)	Successional Stage[2]	Comments
039	D	None	None	None	No	None	Encrusting Bryozoa	None	IND	IND	IND	
040	A	None	None	None	No	None	Encrusting Bryozoa	None	Yes	7.74	1 on 3	Void/deposit feeder/tube.
040	B	None	None	None	No	None	None	Crab	No	IND	IND	Burrow/void.
040	C	IND	None	IND	No	None	Encrusting Bryozoa	None	IND	5.36	IND	Possible colonial tunicate *Didemnum* spp. Burrow/void/deposit feeder.
041	A	None	None	None	No	None	None	None	IND	IND	IND	Shells covering the whole sediment column.
041	C	None	None	None	No	None	Encrusting Bryozoa	None	IND	IND	IND	Possible void/deposit feeder.
041	D	None	None	IND	No	None	None	None	IND	IND	IND	Possible colonial tunicate *Didemnum* spp.
042	A	None	IND	None	No	Clam	Encrusting Bryozoa	None	IND	IND	IND	Clam in sediment column, potentially a quahog. Shells covering the whole sediment column.
042	B	None	None	IND	No	None	Encrusting Bryozoa	None	IND	IND	IND	
042	D	None	None	IND	No	None	Encrusting Bryozoa	None	No	4.73	1 -> 2	Unidentified fish in image. Possible colonial tunicate Didemnum spp. Void/deposit feeder.
043	A	None	None	None	No	None	Encrusting Bryozoa	None	Yes	10.52	1 on 3	Deposit feeder/void.
043	B	None	None	IND	No	None	Encrusting Bryozoa	None	Yes	9.68	1 on 3	Possible colonial tunicate *Didemnum* spp. Void/deposit feeder/burrow.
043	C	None	None	None	No	None	Bryozoa/Hydroids, Encrusting Bryozoa	None	IND	5.48	2	Halo/deposit feeder/void.
044	B	None	None	IND	No	None	Encrusting Bryozoa	None	Yes	10.57	1 on 3	Possible colonial tunicate *Didemnum* spp. Possible void/deposit feeder/tube.
044	C	None	None	None	No	None	Encrusting Bryozoa	None	Yes	10.96	2 on 3	Deposit feeder/void/burrow.
044	D	None	None	None	No	None	Encrusting Bryozoa	None	IND	IND	IND	
045	A	None	None	None	No	None	Encrusting Bryozoa	None	IND	IND	IND	Void/deposit feeder/burrow/tubes.
045	B	None	None	None	No	None	Encrusting Bryozoa	None	IND	IND	IND	Void/deposit feeder.
045	D	None	IND	IND	Yes	None	Encrusting Bryozoa	None	IND	IND	2	Void/tubes/burrows.
046	B	None	None	None	No	None	Encrusting Bryozoa	None	IND	10.47	IND	Burrows/deposit feeders/tube.
046	C	None	None	None	IND	None	Encrusting Bryozoa	None	IND	IND	IND	Tubes/deposit feeders/burrows.
046	D	None	None	None	IND	None	Encrusting Bryozoa	None	IND	IND	2	Tubes/burrows/deposit feeders.
047	A	None	None	None	No	None	None	None	IND	IND	IND	Burrows/void.
047	B	None	None	None	No	None	Encrusting Bryozoa	None	Yes	IND	1 on 3	Burrows/deposit feeder/voids.
047	C	None	None	None	No	None	Crepidula, Encrusting Bryozoa	None	Yes	7.53	2 on 3	Burrows/voids/deposit feeders.
048	A	None	None	None	Yes	None	None	None	No	8.90	2	Tubes/burrows/deposit feeders.
048	C	None	None	None	Yes	None	Encrusting Bryozoa	None	Yes	6.86	2 on 3	Tubes/burrows/voids/deposit feeders.
048	D	None	None	None	Yes	None	Encrusting Bryozoa	None	No	5.88	1 -> 2	Deposit feeders/burrows/tube.
049	A	None	None	None	Yes	None	Bryozoa/Hydroids	None	No	4.50	1 -> 2	Tubes/deposit feeders/burrows.
049	B	None	None	IND	No	None	Crepidula	None	No	1.48	2	small burrows.
049	C	None	None	None	No	None	Encrusting Bryozoa	None	No	7.31	IND	small burrows.
050	A	None	None	None	IND	None	Bryozoa/Hydroids	None	No	3.57	1 -> 2	Tube/small burrows.
050	B	None	None	None	No	None	None	None	No	9.13	1 -> 2	Deposit feeders/small burrows.
050	E	None	None	None	No	None	None	None	IND	8.20	1 -> 2	Halo/small burrows.
051	A	None	None	None	Yes	None	None	Hermit Crab	Yes	13.90	2 on 3	Tube/burrow/void/deposit feeders.
051	C	None	None	None	No	None	None	None	Yes	16.79	1 on 3	Burrows/void/deposit feeders.
051	D	None	None	None	No	Polychaete	None	Snail	Yes	14.08	2 on 3	Tubes/burrows/deposit feeders.
052	A	None	None	None	Yes	Polychaete	None	None	Yes	16.11	2 -> 3	Tubes/burrows/deposit feeders.
052	B	None	None	None	Yes	None	None	None	Yes	16.38	2 on 3	Tubes/burrows/voids/halos.
052	C	None	None	None	Yes	Polychaete	Bryozoa/Hydroids	None	Yes	15.83	2 on 3	Deposit feeders/burrows/tubes/voids.
053	B	None	None	None	No	None	None	None	No	4.03	1	small burrows.
053	C	None	None	None	No	None	None	None	No	2.93	1	small burrows.
053	D	None	None	None	No	None	None	None	No	3.95	1 -> 2	small burrows/tubes.
054	A	None	None	None	No	None	None	None	No	2.96	1 -> 2	small burrows.
054	B	None	None	None	No	None	None	None	No	3.68	1 -> 2	small burrows/deposit feeders.
054	C	None	None	None	Yes	Diopatra	None	None	No	1.82	2	small burrows/halos.
055	A	None	None	None	No	None	None	None	No	2.90	1	small burrows.
055	B	None	None	None	No	None	None	None	No	4.67	1 -> 2	small burrows/deposit feeders.
055	C	None	None	None	No	None	None	None	No	3.39	1	
056	A	None	None	None	No	None	Encrusting Bryozoa	Hermit Crab	No	5.26	1 -> 2	Burrows/deposit feeders/tubes.
056	C	None	None	None	No	None	Bryozoa/Hydroids, Encrusting Bryozoa	Snail	IND	6.49	2	Void/burrows.
056	D	None	None	None	No	None	Encrusting Bryozoa	None	No	1.92	1 -> 2	
057	A	None	None	None	No	None	None	None	No	3.02	1 -> 2	Burrows.
057	B	None	None	None	No	None	None	Hermit Crab	No	2.78	1 -> 2	Possible burrows/tubes.

Station ID	Replicate	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	Tubes Present?	Infauna[3]	Sessile Epifauna	Mobile Epifauna	Feeding Voids Present?	Maximum Bioturbation Depth (cm)	Successional Stage[2]	Comments
057	D	None	None	None	No	None	Bryozoa/Hydroids	None	No	2.24	1 -> 2	
058	A	None	None	None	No	None	None	None	No	2.79	1 -> 2	Burrows/deposit feeders.
058	B	None	None	None	No	None	None	None	No	5.24	1 -> 2	Burrows.
058	C	None	None	None	No	None	None	None	No	IND	IND	
059	A	None	None	None	IND	None	Bryozoa/Hydroids	Hermit Crabs	No	7.01	1 -> 2	Burrows/roots/deposit feeders.
059	B	None	None	None	No	None	Encrusting Bryozoa	None	No	6.51	1 -> 2	Possible burrows/void/deposit feeder.
059	C	None	None	None	No	None	Encrusting Bryozoa	None	No	5.64	IND	
060	B	None	None	None	No	None	Encrusting Bryozoa	None	No	3.33	1 -> 2	Burrows.
060	C	None	None	None	Yes	None	Encrusting Bryozoa	None	No	4.31	1 -> 2	Tubes/burrows.
060	D	None	None	None	No	None	Encrusting Bryozoa	None	No	4.35	1 -> 2	Tube/void.
061	A	None	None	None	No	None	None	None	No	2.83	1	Burrows.
061	B	None	None	None	No	None	None	None	No	1.14	IND	
061	D	None	None	None	No	None	None	None	No	5.11	1	Burrows.
062	A	None	None	None	No	None	None	None	No	9.85	IND	Burrows.
062	D	None	None	None	No	None	None	None	No	IND	IND	
062	E	None	None	None	No	None	None	None	No	5.21	IND	Burrows.
063	A	None	None	None	No	None	None	None	No	3.81	1 -> 2	Burrows.
063	B	None	None	None	No	None	None	None	No	4.26	IND	Burrows.
063	C	None	None	None	No	None	None	None	No	5.56	1	Burrows.
064	A	None	None	None	No	None	None	None	No	12.42	1	Burrows.
064	B	None	None	None	No	None	None	None	No	8.09	1 -> 2	Burrows.
064	C	None	None	None	No	None	None	None	No	IND	IND	
065	A	None	None	None	No	None	None	None	No	IND	1 -> 2	
065	C	None	None	None	No	None	None	None	No	IND	IND	Burrows.
065	D	None	None	IND	No	None	Bryozoa/Hydroids, Encrusting Bryozoa	None	IND	IND	IND	
066	A	None	None	None	No	None	None	None	No	IND	IND	Tubes/burrows.
066	C	None	None	None	No	None	None	None	No	7.63	1	Burrows.
066	D	None	None	None	No	None	None	None	No	4.57	1 -> 2	Burrows/deposit feeder.
067	A	None	None	None	No	None	None	None	No	6.83	IND	
067	C	None	None	None	No	None	None	None	No	7.52	IND	Burrows.
067	D	None	None	None	No	None	None	None	No	6.27	IND	Burrows.
068	A	None	None	None	No	None	None	None	No	6.52	1 -> 2	Deposit feeder/burrows.
068	B	None	None	None	No	None	None	None	No	5.34	1	Burrows.
068	D	None	None	None	No	None	None	None	No	7.77	1 -> 2	Possible burrows/deposit feeders.
069	A	None	None	None	No	None	None	None	No	IND	IND	
069	B	None	None	None	No	None	None	None	No	IND	IND	Burrows.
069	C	None	None	None	No	None	None	None	No	IND	IND	
070	A	None	None	None	No	None	None	None	No	IND	IND	
070	B	None	None	None	No	None	None	None	Yes	IND	1 on 3	
070	C	None	None	None	No	None	None	None	No	IND	IND	
071	A	None	None	None	No	None	None	None	No	5.63	IND	
071	C	None	None	None	No	None	Mussels	None	No	IND	1 -> 2	Deposit feeder/burrow.
071	D	None	None	None	No	None	Mussels	Hermit Crab	No	3.21	1 -> 2	Halo/burrow/small deposit feeder.
072	B	None	None	None	No	None	Mussels	None	No	IND	2	
072	C	None	None	None	No	None	None	None	IND	IND	IND	
072	D	None	None	None	No	None	Mussels	Hermit Crab	IND	IND	IND	
073	A	None	None	None	No	None	None	None	No	IND	IND	
073	B	None	None	None	No	None	None	None	No	IND	IND	
073	C	None	None	None	No	None	None	None	No	IND	IND	
074	A	None	None	None	No	None	None	None	No	IND	IND	
074	C	None	None	None	No	None	None	None	No	IND	IND	
074	D	None	None	None	No	None	None	None	No	IND	IND	
075	B	None	None	None	No	None	None	None	No	IND	IND	Possible burrows/tube.
075	C	None	None	None	No	None	None	None	No	IND	IND	Burrows/small deposit feeder.
075	D	None	None	None	No	None	None	None	No	IND	IND	
076	A	None	None	None	No	None	None	None	No	IND	IND	
076	B	None	None	None	No	None	None	None	No	IND	IND	
076	C	None	None	None	No	None	None	None	No	IND	IND	
077	A	None	None	None	No	None	None	None	No	IND	IND	Possible burrows/deposit feeder.
077	B	None	None	None	No	None	None	None	No	IND	IND	

Station ID	Replicate	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	Tubes Present?	Infauna[3]	Sessile Epifauna	Mobile Epifauna	Feeding Voids Present?	Maximum Bioturbation Depth (cm)	Successional Stage[2]	Comments
077	E	None	None	None	No	None	None	None	No	IND	IND	Ripples.
078	A	None	None	None	No	None	None	None	No	IND	IND	
078	B	None	None	None	No	None	None	None	No	IND	IND	
078	D	None	None	None	No	None	None	None	No	IND	IND	
079	A	None	None	None	No	None	None	None	No	IND	IND	
079	B	None	None	None	No	None	None	None	No	IND	IND	
079	C	None	None	None	No	None	None	None	No	IND	IND	
080	A	None	None	None	No	None	None	None	No	IND	IND	
080	B	None	None	None	No	None	None	None	No	IND	IND	
080	C	None	None	None	No	None	None	Snail	No	IND	IND	
081	A	None	None	None	No	None	None	None	No	IND	IND	
081	B	None	None	None	No	None	None	None	No	3.44	IND	
081	D	None	None	None	No	None	None	None	No	IND	IND	
082	B	None	None	None	No	None	None	None	No	IND	IND	Tube/burrow.
082	C	None	None	None	No	None	None	None	No	2.95	IND	
082	D	None	None	None	No	None	None	None	No	2.93	IND	
083	B	None	None	None	No	None	None	None	No	IND	IND	Tubes.
083	C	None	None	None	No	None	None	None	No	2.42	IND	Burrows.
083	D	None	None	None	No	None	None	None	No	IND	IND	
084	A	None	None	None	No	None	None	None	No	3.36	IND	
084	B	None	None	None	No	None	None	None	No	IND	IND	
084	D	None	None	None	No	None	None	None	No	IND	IND	
085	A	None	None	None	No	None	None	None	No	IND	IND	
085	C	None	None	None	No	None	None	None	No	IND	IND	
085	D	None	None	None	No	None	None	None	No	IND	2	
086	A	None	None	None	No	None	None	None	No	IND	1	
086	C	None	None	None	No	None	None	None	No	IND	IND	
086	E	None	None	None	IND	None	None	None	No	4.13	2	Tubes/fecal stack.
087	B	None	None	None	No	None	None	None	No	IND	IND	
087	D	None	None	None	No	None	None	None	No	IND	IND	
087	E	None	None	None	IND	None	None	None	No	2.62	1 -> 2	Tube/burrow.
088	B	None	None	None	No	None	None	None	No	2.81	IND	
088	C	None	None	None	No	None	None	None	No	2.59	1	
088	D	None	None	None	No	None	None	None	No	IND	1	
089	A	None	None	None	No	None	None	None	No	IND	IND	Possible tubes.
089	B	None	None	None	No	None	None	None	No	IND	1 -> 2	Tubes/burrows.
089	C	None	None	None	No	None	None	None	No	2.82	1	
090	B	None	None	None	No	None	None	None	No	IND	IND	
090	C	None	None	None	No	None	None	None	No	IND	IND	
090	D	None	None	None	No	None	None	None	No	3.39	IND	Burrows.
091	A	None	None	None	No	None	None	None	No	IND	IND	
091	C	None	None	None	No	None	None	None	No	IND	IND	
091	D	None	None	None	No	None	None	None	No	IND	IND	

Appendix D – Plan View Image Analysis Results

Notes:
IND=Indeterminate
N/A=Not Applicable
1 Infauna: Larger, conspicuous, and identifiable in fauna were noted; a value of “none” does not indicate an absence of visible infauna or indicators of their presence.

Station ID	Replicate	Water Depth (m)	Date	Time	Image Width (cm)	Image Height (cm)	Field of View (m^2)	CMECS Substrate Group	CMECS Substrate Subgroup	Minimum CMECS Gravel Size Category	Maximum CMECS Gravel Size Category	Bedforms	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	CMECS Biotic Subclass	Co-occurring CMECS Biotic Subclass
001	A	9.1	8/31/2023	22:04:55	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
001	C	9.1	8/31/2023	22:07:52	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
001	D	9.1	8/31/2023	22:09:46	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
002	D	11.0	9/1/2023	4:02:23	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
002	E	11.0	9/1/2023	14:05:05	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
002	F	11.0	9/1/2023	14:06:17	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
003	F	11.6	9/1/2023	14:39:47	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
003	G	11.6	9/1/2023	14:40:46	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
003	H	11.6	9/1/2023	14:42:04	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
004	E	11.6	9/1/2023	14:50:42	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
004	F	11.6	9/1/2023	14:52:09	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
004	H	11.6	9/1/2023	14:54:39	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
005	A	11.1	9/1/2023	2:54:38	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
005	B	11.1	9/1/2023	2:55:46	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
005	C	11.1	9/1/2023	2:57:04	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
006	F	12.2	9/1/2023	4:42:32	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
006	G	12.2	9/1/2023	4:43:49	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
006	H	12.2	9/1/2023	4:45:32	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
007	E	12.2	9/1/2023	4:53:42	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
007	F	12.2	9/1/2023	4:55:06	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
007	G	12.2	9/1/2023	4:56:15	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
008	E	11.6	9/1/2023	5:03:52	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
008	G	11.6	9/1/2023	5:06:33	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
008	H	11.6	9/1/2023	5:07:57	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
009	A	11.3	9/1/2023	1:20:34	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
009	B	11.3	9/1/2023	1:21:41	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
009	C	11.3	9/1/2023	1:22:51	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
010	B	11.9	9/1/2023	1:05:22	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
010	C	11.9	9/1/2023	1:06:33	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
010	D	11.9	9/1/2023	1:07:46	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
011	A	13.1	9/1/2023	0:38:43	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
011	B	13.1	9/1/2023	0:39:59	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
011	C	13.1	9/1/2023	0:41:18	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
012	B	14.9	9/1/2023	0:16:28	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
012	C	14.9	9/1/2023	0:18:01	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
012	D	14.9	9/1/2023	0:19:20	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
013	B	13.7	9/1/2023	5:36:07	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
013	C	13.7	9/1/2023	5:37:30	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
013	D	13.7	9/1/2023	5:39:24	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
014	A	13.4	9/1/2023	5:50:32	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
014	B	13.4	9/1/2023	5:51:52	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
014	D	13.4	9/1/2023	5:54:52	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
015	A	13.1	9/1/2023	6:22:37	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
015	B	13.1	9/1/2023	6:24:17	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
015	C	13.1	9/1/2023	6:26:10	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
016	B	12.2	9/1/2023	6:46:52	IND	IND	IND	Gravelly	Gravelly Sand	Pebble/ Granule	Pebble/ Granule	None	IND	IND	IND	IND	IND
016	C	12.2	9/1/2023	6:48:08	IND	IND	IND	Gravelly	Gravelly Sand	Pebble/ Granule	Pebble/ Granule	None	None	None	None	IND	IND
016	D	12.2	9/1/2023	6:49:17	IND	IND	IND	Gravelly	Gravelly Sand	Pebble/ Granule	Pebble/ Granule	IND	IND	IND	IND	IND	IND
017	B	13.7	9/1/2023	7:14:26	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
017	C	13.7	9/1/2023	7:15:42	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
017	D	13.7	9/1/2023	7:17:02	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
018	I	12.5	9/1/2023	16:15:32	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND

Station ID	Replicate	Water Depth (m)	Date	Time	Image Width (cm)	Image Height (cm)	Field of View (m^2)	CMECS Substrate Group	CMECS Substrate Subgroup	Minimum CMECS Gravel Size Category	Maximum CMECS Gravel Size Category	Bedforms	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	CMECS Biotic Subclass	Co-occurring CMECS Biotic Subclass
018	J	12.5	9/1/2023	16:16:55	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
018	K	12.5	9/1/2023	16:18:11	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
019	B	13.4	8/31/2023	22:46:01	84.14	56.09	0.47	Shell Substrate	Shell Hash	Pebble/ Granule	Pebble/ Granule	None	None	None	None	None	None
019	C	13.4	8/31/2023	22:47:48	84.14	56.09	0.47	Shell Substrate	Shell Hash	Pebble/ Granule	Pebble/ Granule	None	None	None	None	None	None
019	D	13.4	8/31/2023	22:48:49	IND	IND	IND	Sand or finer	Sand or finer	Pebble/ Granule	Pebble/ Granule	None	IND	IND	IND	IND	IND
020	B	12.2	9/1/2023	7:54:46	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
020	C	12.2	9/1/2023	7:57:14	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
021	A	10.4	9/1/2023	16:29:30	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
021	B	10.4	9/1/2023	16:30:38	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
021	D	10.4	9/1/2023	16:33:06	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
022	A	10.4	9/1/2023	13:02:30	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	IND	IND
022	B	10.1	9/1/2023	16:42:59	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
022	C	10.1	9/1/2023	16:44:42	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
023	A	13.1	9/1/2023	16:53:58	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
023	B	13.1	9/1/2023	16:55:16	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
023	C	13.1	9/1/2023	16:56:18	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
024	A	17.4	9/1/2023	12:39:52	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
024	C	17.4	9/1/2023	12:42:42	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
024	D	17.4	9/1/2023	12:43:58	IND	IND	IND	Gravel Mixes	Sandy Gravel	Pebble/ Granule	Pebble/ Granule	None	None	None	None	Attached Fauna	IND
025	A	25.0	9/1/2023	12:20:22	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	IND	IND
025	B	25.0	9/1/2023	12:21:25	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	IND	IND
025	C	25.0	9/1/2023	12:22:38	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	IND	IND
026	A	29.9	9/1/2023	11:56:30	70.05	46.70	0.33	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	None	None
026	B	29.9	9/1/2023	11:57:50	70.43	46.95	0.33	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	IND	IND
026	C	29.9	9/1/2023	11:59:16	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	IND	IND
027	A	31.1	9/1/2023	11:29:40	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
027	B	31.1	9/1/2023	11:31:21	78.75	52.50	0.41	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
027	C	31.1	9/1/2023	11:33:11	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
028	A	27.4	9/1/2023	11:12:53	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	IND	IND	None	None
028	B	27.4	9/1/2023	11:14:34	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
028	C	27.4	9/1/2023	11:15:56	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	IND	IND
029	C	17.7	9/1/2023	9:00:35	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
029	D	17.7	9/1/2023	9:02:54	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
029	E	17.7	9/1/2023	9:04:54	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
030	B	12.8	9/1/2023	9:23:43	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
030	C	12.8	9/1/2023	9:25:28	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
030	D	12.8	9/1/2023	9:27:02	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
031	A	11.3	9/1/2023	9:41:16	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
031	B	11.3	9/1/2023	9:42:45	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
031	C	11.3	9/1/2023	9:44:26	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
032	A	10.4	9/1/2023	9:57:14	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
032	B	10.4	9/1/2023	9:58:48	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
032	D	10.4	9/1/2023	10:02:31	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
033	B	9.8	9/1/2023	10:17:40	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
033	C	9.8	9/1/2023	10:19:11	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
033	D	9.8	9/1/2023	10:20:41	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
034	A	8.8	9/1/2023	19:14:12	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
034	B	8.8	9/1/2023	19:15:25	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
034	D	8.8	9/1/2023	19:17:55	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
035	B	9.1	9/1/2023	19:37:17	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
035	C	9.1	9/1/2023	19:38:53	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND

Station ID	Replicate	Water Depth (m)	Date	Time	Image Width (cm)	Image Height (cm)	Field of View (m^2)	CMECS Substrate Group	CMECS Substrate Subgroup	Minimum CMECS Gravel Size Category	Maximum CMECS Gravel Size Category	Bedforms	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	CMECS Biotic Subclass	Co-occurring CMECS Biotic Subclass
035	D	9.1	9/1/2023	19:40:19	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
036	B	9.5	9/1/2023	19:55:16	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	IND	IND	None	None	IND	IND
036	C	9.5	9/1/2023	19:56:52	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	IND	IND
036	D	9.5	9/1/2023	19:58:16	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	IND	IND
037	A	10.1	9/1/2023	20:10:59	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
037	C	10.1	9/1/2023	20:15:08	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
037	D	10.1	9/1/2023	20:16:11	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
038	E	11.0	9/1/2023	21:11:15	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	IND	IND
038	F	11.0	9/1/2023	21:12:32	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	IND	IND
038	G	11.0	9/1/2023	21:13:43	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	IND	IND
039	A	8.5	9/1/2023	21:21:38	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	Ripples	IND	IND	IND	IND	IND
039	B	8.5	9/1/2023	21:22:34	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	IND	IND	IND	IND	IND
039	D	8.5	9/1/2023	21:24:36	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	IND	IND	IND	Attached Fauna	IND
040	A	8.8	9/1/2023	21:38:43	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
040	B	8.8	9/1/2023	21:40:06	79.11	52.74	0.42	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	Attached Fauna	None
040	C	8.8	9/1/2023	21:41:29	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	Attached Fauna	None
041	A	8.8	9/1/2023	21:55:52	90.70	60.47	0.55	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	Attached Fauna	None
041	C	8.8	9/1/2023	21:59:27	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
041	D	8.8	9/1/2023	22:00:42	77.46	51.64	0.40	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	Attached Fauna	None
042	A	9.8	9/1/2023	22:15:13	81.59	54.39	0.44	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	Attached Fauna	None
042	B	9.8	9/1/2023	22:16:48	94.49	62.99	0.60	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
042	D	9.8	9/1/2023	22:18:54	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
043	A	11.3	9/1/2023	22:32:18	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
043	B	11.3	9/1/2023	22:33:33	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
043	C	11.3	9/1/2023	22:34:51	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
044	B	10.4	9/1/2023	22:51:35	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	IND	IND
044	C	10.4	9/1/2023	22:52:54	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
044	D	10.4	9/1/2023	22:54:20	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	Attached Fauna	None
045	A	10.1	9/1/2023	23:40:25	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	IND	IND
045	B	10.1	9/1/2023	23:42:07	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
045	D	10.1	9/1/2023	23:44:35	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	IND	IND
046	B	10.7	9/1/2023	23:57:26	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
046	C	10.7	9/1/2023	23:58:37	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	IND	IND	IND	IND	IND
046	D	10.7	9/1/2023	23:59:39	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
047	A	11.3	9/2/2023	0:13:18	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	Soft Sediment Fauna	None
047	B	11.3	9/2/2023	0:14:32	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	Attached Fauna	None
047	C	11.3	9/2/2023	0:15:57	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
048	A	11.0	9/2/2023	0:30:39	IND	IND	IND	Gravelly	Gravelly Sand	Pebble/ Granule	Pebble/ Granule	None	None	None	None	IND	IND
048	C	11.0	9/2/2023	0:33:18	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	IND	IND
048	D	11.0	9/2/2023	0:34:44	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	IND	IND
049	A	10.7	9/2/2023	0:45:21	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
049	B	10.7	9/2/2023	0:46:32	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
049	C	10.7	9/2/2023	0:47:51	81.85	54.56	0.45	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
050	A	10.7	9/2/2023	1:00:15	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
050	B	10.7	9/2/2023	1:01:20	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	IND	IND
050	E	10.7	9/2/2023	1:05:36	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	IND	IND
051	A	15.2	9/2/2023	1:18:38	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Soft Sediment Fauna	Attached Fauna
051	C	15.2	9/2/2023	1:21:35	82.50	55.00	0.45	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Soft Sediment Fauna	None
051	D	15.2	9/2/2023	1:22:56	90.07	60.05	0.54	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Soft Sediment Fauna	None

Station ID	Replicate	Water Depth (m)	Date	Time	Image Width (cm)	Image Height (cm)	Field of View (m^2)	CMECS Substrate Group	CMECS Substrate Subgroup	Minimum CMECS Gravel Size Category	Maximum CMECS Gravel Size Category	Bedforms	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	CMECS Biotic Subclass	Co-occurring CMECS Biotic Subclass
052	A	15.2	9/2/2023	1:34:56	81.33	54.22	0.44	Sand or finer	Sand or finer	N/A	N/A	None	None	IND	None	Soft Sediment Fauna	None
052	B	15.2	9/2/2023	1:36:20	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	IND	None	Soft Sediment Fauna	None
052	C	15.2	9/2/2023	1:37:39	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Soft Sediment Fauna	None
053	B	14.3	9/2/2023	1:51:08	87.20	58.13	0.51	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	IND	None	Mollusk Reef Biota	Soft Sediment Fauna
053	C	14.3	9/2/2023	1:52:27	87.79	58.53	0.51	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	IND	None	Soft Sediment Fauna	None
053	D	14.3	9/2/2023	1:53:50	95.01	63.34	0.60	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
054	A	17.7	9/2/2023	2:03:24	80.21	53.47	0.43	Sand or finer	Sand or finer	N/A	N/A	None	None	IND	None	Soft Sediment Fauna	None
054	B	17.7	9/2/2023	2:05:02	76.21	50.81	0.39	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
054	C	17.7	9/2/2023	2:06:27	77.57	51.72	0.40	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Soft Sediment Fauna	None
055	A	18.9	9/2/2023	2:19:02	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
055	B	18.9	9/2/2023	2:20:43	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
055	C	18.9	9/2/2023	2:22:14	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
056	A	20.4	9/2/2023	12:19:42	64.49	42.99	0.28	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Soft Sediment Fauna	Attached Fauna
056	C	20.4	9/2/2023	12:22:00	58.87	39.25	0.23	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	Attached Fauna	None
056	D	60.0	9/2/2023	12:23:05	62.40	41.60	0.26	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Soft Sediment Fauna	Attached Fauna
057	A	20.4	9/2/2023	12:05:07	80.83	53.89	0.44	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Attached Fauna	Inferred Fauna
057	B	20.4	9/2/2023	12:06:22	86.19	57.46	0.50	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	None	None
057	D	20.4	9/2/2023	12:08:17	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
058	A	16.8	9/2/2023	11:49:41	82.71	55.14	0.46	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
058	B	16.8	9/2/2023	11:51:04	81.46	54.31	0.44	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Attached Fauna	Inferred Fauna
058	C	16.8	9/2/2023	11:52:21	83.56	55.70	0.47	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Inferred Fauna	None
059	A	12.8	9/2/2023	11:36:15	74.96	49.98	0.37	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Attached Fauna	Inferred Fauna
059	B	12.8	9/2/2023	11:37:33	72.59	48.39	0.35	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Attached Fauna	None
059	C	12.8	9/2/2023	11:38:52	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
060	B	17.4	9/2/2023	11:25:21	73.07	48.71	0.36	Shell Substrate	Shell Hash	N/A	N/A	Ripples	None	None	None	None	None
060	C	17.4	9/2/2023	11:26:36	78.16	52.10	0.41	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
060	D	17.4	9/2/2023	11:27:57	84.97	56.64	0.48	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	Attached Fauna	None
061	A	20.7	9/2/2023	11:12:11	81.59	54.39	0.44	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
061	B	20.7	9/2/2023	11:13:49	86.05	57.36	0.49	Sand or finer	Sand or finer	N/A	N/A	IND	IND	IND	IND	IND	IND
061	D	20.7	9/2/2023	11:16:44	76.43	50.96	0.39	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
062	A	18.0	9/2/2023	6:37:31	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
062	D	18.0	9/2/2023	6:43:46	62.93	41.95	0.26	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
062	E	18.0	9/2/2023	6:45:52	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	IND	None	None	None	None	None
063	A	18.9	9/2/2023	6:17:53	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
063	B	18.9	9/2/2023	6:19:27	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
063	C	18.9	9/2/2023	6:20:51	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
064	A	17.4	9/2/2023	5:58:54	77.57	51.72	0.40	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Inferred Fauna	None
064	B	17.4	9/2/2023	6:00:26	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
064	C	17.4	9/2/2023	6:01:54	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
065	A	12.2	9/2/2023	5:38:33	77.81	51.87	0.40	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	None	None
065	C	12.2	9/2/2023	5:40:41	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	None	None

Station ID	Replicate	Water Depth (m)	Date	Time	Image Width (cm)	Image Height (cm)	Field of View (m^2)	CMECS Substrate Group	CMECS Substrate Subgroup	Minimum CMECS Gravel Size Category	Maximum CMECS Gravel Size Category	Bedforms	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	CMECS Biotic Subclass	Co-occurring CMECS Biotic Subclass
065	D	12.2	9/2/2023	5:41:53	IND	IND	IND	Shell Substrate	Shell Hash	N/A	N/A	None	None	None	None	None	None
066	A	8.5	9/2/2023	5:22:55	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	IND	None	Soft Sediment Fauna	None
066	C	8.5	9/2/2023	5:25:19	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
066	D	8.5	9/2/2023	5:26:42	65.80	43.86	0.29	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
067	A	6.1	9/2/2023	5:08:46	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
067	C	6.1	9/2/2023	5:11:08	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
067	D	6.1	9/2/2023	5:12:09	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	IND	None	None	None	None
068	A	6.1	9/2/2023	4:10:56	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
068	B	6.1	9/2/2023	4:12:02	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
068	D	6.1	9/2/2023	4:14:06	71.40	47.60	0.34	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
069	A	5.8	9/2/2023	4:22:15	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
069	B	5.8	9/2/2023	4:23:25	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
069	C	5.8	9/2/2023	4:24:33	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
070	A	5.5	9/2/2023	4:34:58	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
070	B	5.5	9/2/2023	4:36:06	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
070	C	5.5	9/2/2023	4:37:17	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
071	A	5.2	9/2/2023	4:49:13	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Mollusk Reef Biota	Soft Sediment Fauna
071	C	5.2	9/2/2023	4:51:31	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Mollusk Reef Biota	Soft Sediment Fauna
071	D	5.2	9/2/2023	4:52:38	IND	IND	IND	Shell Substrate	Mussel Reef Substrate	N/A	N/A	Ripples	None	None	None	Mollusk Reef Biota	Soft Sediment Fauna
072	B	6.7	9/2/2023	8:18:31	IND	IND	IND	Shell Substrate	Mussel Reef Substrate	Pebble/ Granule	Pebble/ Granule	None	None	None	None	Mollusk Reef Biota	None
072	C	6.7	9/2/2023	8:19:45	84.10	56.06	0.47	Gravel Mixes	Sandy Gravel	Pebble/ Granule	Cobble	None	None	None	None	Mollusk Reef Biota	Soft Sediment Fauna
072	D	6.7	9/2/2023	8:21:18	98.24	65.49	0.64	Shell Substrate	Mussel Reef Substrate	Pebble/ Granule	Pebble/ Granule	None	None	None	None	Mollusk Reef Biota	Soft Sediment Fauna
073	A	7.0	9/2/2023	8:35:00	78.20	52.13	0.41	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
073	B	7.0	9/2/2023	8:36:21	79.96	53.31	0.43	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
073	C	7.0	9/2/2023	8:37:31	72.93	48.62	0.35	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
074	A	7.3	9/2/2023	8:51:10	83.56	55.70	0.47	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	Soft Sediment Fauna	None
074	C	7.3	9/2/2023	8:53:49	82.45	54.97	0.45	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
074	D	7.3	9/2/2023	8:55:01	78.43	52.29	0.41	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
075	B	7.9	9/2/2023	9:10:23	89.19	59.46	0.53	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
075	C	7.9	9/2/2023	9:11:42	84.64	56.43	0.48	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
075	D	7.9	9/2/2023	9:12:53	86.96	57.97	0.50	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
076	A	8.1	9/2/2023	9:27:59	75.40	50.27	0.38	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
076	B	8.1	9/2/2023	9:29:10	69.96	46.64	0.33	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
076	C	8.1	9/2/2023	9:30:37	63.08	42.05	0.27	Sand or finer	Sand or finer	N/A	N/A	None	None	None	None	None	None
077	A	7.6	9/2/2023	9:45:02	67.80	45.20	0.31	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
077	B	7.6	9/2/2023	9:46:07	71.30	47.53	0.34	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
077	E	7.6	9/2/2023	9:53:53	79.63	53.09	0.42	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
078	A	8.2	9/2/2023	10:09:42	84.60	56.40	0.48	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
078	B	8.2	9/2/2023	10:10:47	86.38	57.59	0.50	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
078	D	8.2	9/2/2023	10:13:17	74.29	49.52	0.37	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
079	A	9.1	9/2/2023	10:24:58	81.59	54.39	0.44	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Mollusk Reef Biota	None
079	B	9.1	9/2/2023	10:26:14	77.23	51.49	0.40	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
079	C	9.1	9/2/2023	10:27:25	74.68	49.78	0.37	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None

Station ID	Replicate	Water Depth (m)	Date	Time	Image Width (cm)	Image Height (cm)	Field of View (m^2)	CMECS Substrate Group	CMECS Substrate Subgroup	Minimum CMECS Gravel Size Category	Maximum CMECS Gravel Size Category	Bedforms	Type of Sensitive Taxa	Type of Species of Concern	Type of Non-Native Taxa	CMECS Biotic Subclass	Co-occurring CMECS Biotic Subclass
080	A	10.4	9/2/2023	10:41:25	73.34	48.90	0.36	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
080	B	10.4	9/2/2023	10:42:44	73.76	49.17	0.36	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
080	C	10.4	9/2/2023	10:44:03	78.20	52.13	0.41	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
081	A	10.1	9/2/2023	13:42:52	81.93	54.62	0.45	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
081	B	10.1	9/2/2023	13:44:27	59.93	39.95	0.24	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
081	D	10.1	9/2/2023	13:46:53	75.44	50.29	0.38	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
082	B	10.7	9/2/2023	13:58:57	74.29	49.52	0.37	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
082	C	10.7	9/2/2023	14:00:14	77.92	51.95	0.40	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	Attached Fauna
082	D	10.7	9/2/2023	14:01:09	86.28	57.52	0.50	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
083	B	11.0	9/2/2023	14:11:58	84.92	56.61	0.48	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
083	C	11.0	9/2/2023	14:12:56	84.32	56.22	0.47	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
083	D	11.0	9/2/2023	14:13:56	81.21	54.14	0.44	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
084	A	11.3	9/2/2023	14:27:24	79.23	52.82	0.42	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
084	B	11.3	9/2/2023	14:28:49	87.39	58.26	0.51	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
084	C	11.3	9/2/2023	14:30:04	81.59	54.39	0.44	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
085	A	11.0	9/2/2023	14:43:40	89.19	59.46	0.53	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
085	C	11.0	9/2/2023	14:46:29	77.15	51.43	0.40	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
085	D	11.0	9/2/2023	14:47:56	72.69	48.46	0.35	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
086	C	11.0	9/2/2023	15:05:19	89.76	59.84	0.54	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
086	D	11.0	9/2/2023	15:06:57	83.29	55.53	0.46	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
086	E	11.0	9/2/2023	15:08:33	64.81	43.21	0.28	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
087	B	10.7	9/2/2023	15:26:08	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
087	D	10.7	9/2/2023	15:28:38	IND	IND	IND	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
087	E	10.7	9/2/2023	15:29:56	69.96	46.64	0.33	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
088	B	10.7	9/2/2023	15:48:30	85.34	56.89	0.49	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
088	C	10.7	9/2/2023	15:49:26	84.87	56.58	0.48	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
088	D	10.7	9/2/2023	15:50:32	83.74	55.82	0.47	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	Soft Sediment Fauna	None
089	A	10.7	9/2/2023	16:02:10	77.57	51.72	0.40	Sand or finer	Sand or finer	N/A	N/A	Ripples	None	None	None	None	None
089	B	10.7	9/2/2023	16:03:52	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
089	C	10.7	9/2/2023	16:04:54	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
090	A	11.3	9/2/2023	16:23:12	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
090	B	11.3	9/2/2023	16:24:30	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
090	D	11.3	9/2/2023	16:27:10	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
091	A	11.3	9/2/2023	16:41:55	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
091	C	11.3	9/2/2023	16:44:57	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
091	D	11.3	9/2/2023	16:46:07	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND

Station ID	Replicate	Percent Cover of All Attached Fauna	Burrows Present?	Tracks Present?	Tubes Present?	Eggs	Infauna[1]	Sessile Epifauna	Mobile Epifauna	Macroalgae	Fish	Comments
001	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
001	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
001	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
002	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
002	E	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
002	F	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
003	F	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
003	G	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
003	H	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
004	E	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
004	F	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
004	H	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
005	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
005	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
005	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
006	F	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
006	G	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
006	H	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
007	E	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
007	F	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
007	G	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
008	E	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
008	G	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
008	H	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
009	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
009	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
009	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
009	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
009	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
010	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
010	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
010	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
011	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
011	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
011	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
012	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
012	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
012	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
013	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
013	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
013	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
014	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
014	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
014	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
015	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
015	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
015	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
016	B	IND	IND	IND	IND	IND	None	None	None	None	None	Very turbid, barely visible seafloor.
016	C	IND	IND	IND	IND	IND	None	None	None	None	None	Very turbid, barely visible seafloor.
016	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, barely visible seafloor.
017	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
017	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
017	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
018	I	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.

Station ID	Replicate	Percent Cover of All Attached Fauna	Burrows Present?	Tracks Present?	Tubes Present?	Eggs	Infauna[1]	Sessile Epifauna	Mobile Epifauna	Macroalgae	Fish	Comments
018	J	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
018	K	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
019	B	None	No	No	No	None	None	None	None	None	None	
019	C	None	No	No	No	None	None	None	None	None	None	
019	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
020	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
020	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
021	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
021	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
021	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
022	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
022	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
022	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
023	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
023	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
023	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
024	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
024	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
024	D	Moderate (30 to <70%)	IND	IND	IND	IND	IND	Sponge	IND	IND	None	
025	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
025	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
025	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
026	A	None	No	IND	No	None	None	None	None	None	None	
026	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
026	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	Very turbid, jellyfish in the water column.
027	A	None	No	No	No	None	None	None	None	None	None	
027	B	None	No	No	No	None	None	None	None	None	None	
027	C	None	No	No	No	None	None	None	None	None	None	
028	A	None	No	No	No	None	None	None	None	None	None	
028	B	None	No	No	No	None	None	None	None	None	None	
028	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
029	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
029	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
029	E	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
030	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
030	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
030	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
031	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
031	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
031	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
032	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
032	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
032	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
033	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
033	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
033	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
034	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
034	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
034	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
035	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
035	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.

Station ID	Replicate	Percent Cover of All Attached Fauna	Burrows Present?	Tracks Present?	Tubes Present?	Eggs	Infauna[1]	Sessile Epifauna	Mobile Epifauna	Macroalgae	Fish	Comments
035	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
036	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
036	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
036	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
037	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
037	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
037	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
038	E	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
038	F	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
038	G	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
039	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	
039	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	
039	D	Sparse (1 to <30%)	No	No	No	None	None	Sponge	None	None	None	
040	A	None	No	No	No	None	None	None	None	None	None	
040	B	Sparse (1 to <30%)	No	No	No	None	None	Sponge	None	None	None	
040	C	Sparse (1 to <30%)	No	No	No	None	None	Sponge	None	None	None	
041	A	Sparse (1 to <30%)	No	No	No	None	None	Sponge	None	None	None	Jellyfish or ctenophore in water column.
041	C	None	No	No	No	None	None	None	IND	None	None	
041	D	Sparse (1 to <30%)	No	No	No	None	None	Sponge	Spider Crab	None	None	
042	A	Sparse (1 to <30%)	No	No	No	None	None	Sponge	Spider Crab	None	None	
042	B	None	No	No	No	None	None	None	None	None	None	
042	D	None	No	No	No	None	None	None	None	None	None	
043	A	None	No	No	No	None	None	None	None	None	None	
043	B	None	No	No	No	None	None	None	None	None	None	
043	C	None	No	No	No	None	None	None	None	None	None	
044	B	IND	No	No	No	None	None	None	None	None	None	
044	C	None	No	No	No	None	None	None	None	None	None	
044	D	Sparse (1 to <30%)	No	No	No	None	None	Sponge	None	None	None	
045	A	IND	No	No	No	None	None	None	None	None	None	
045	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
045	D	IND	No	No	No	None	None	None	None	None	None	
046	B	None	No	No	No	None	None	None	None	None	None	
046	C	IND	No	No	IND	IND	IND	IND	IND	IND	IND	
046	D	None	No	No	No	None	None	None	None	None	None	
047	A	None	No	No	No	None	None	None	Sea Urchin	None	None	
047	B	Trace (<1%)	No	No	No	None	None	Bryozoa/Hydroids	None	None	None	
047	C	None	No	No	No	None	None	None	None	None	None	
048	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
048	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
048	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
049	A	None	No	No	No	None	None	None	None	None	None	
049	B	None	No	No	No	None	None	None	None	None	None	
049	C	None	No	No	No	None	None	None	Hermit Crab	None	None	
050	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
050	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
050	E	IND	IND	IND	IND	IND	IND	IND	IND	IND	None	
051	A	Sparse (1 to <30%)	No	No	No	None	None	None	Hermit Crab	None	Unidentified	Possible sea bass.
051	C	None	No	No	No	None	None	None	None	None	Unidentified	
051	D	None	IND	IND	IND	None	None	None	None	None	None	

Station ID	Replicate	Percent Cover of All Attached Fauna	Burrows Present?	Tracks Present?	Tubes Present?	Eggs	Infauna[1]	Sessile Epifauna	Mobile Epifauna	Macroalgae	Fish	Comments
052	A	None	No	No	Yes	None	Clams	None	None	None	None	Bivalve siphons visible, species unidentified.
052	B	None	No	No	No	None	Clams	None	None	None	None	Bivalve siphons visible, species unidentified.
052	C	None	No	No	Yes	None	None	None	None	None	None	
053	B	Sparse (1 to <30%)	No	No	Yes	None	Clams	Mussels, Bryozoa/Hydroids	Hermit Crab	None	None	Bivalve siphons visible, species unidentified.
053	C	None	No	No	No	None	Clams	None	None	None	None	Bivalve siphons visible, species unidentified.
053	D	None	No	No	No	None	None	None	None	None	None	
054	A	None	No	No	No	None	Clams	None	Cancer Crab	None	None	Several sets of bivalve siphons, species unidentified.
054	B	None	No	No	Yes	None	None	None	None	None	None	
054	C	None	No	No	No	None	None	None	None	None	None	
055	A	None	No	No	No	None	None	None	None	None	None	
055	B	None	No	No	No	None	None	None	None	None	None	
055	C	None	No	No	No	None	None	None	None	None	None	
056	A	Trace (<1%)	No	No	No	None	None	Bryozoa/Hydroids	Hermit Crabs	None	None	
056	C	Moderate (30 to <70%)	No	No	No	None	None	Crepidula, Bryozoa/Hydroids, Mussels	None	None	None	
056	D	Trace (<1%)	No	No	No	None	None	Bryozoa/Hydroids	Hermit Crab	None	None	
057	A	Trace (<1%)	No	Yes	No	None	None	Bryozoa/Hydroids	None	None	None	
057	B	None	No	No	No	None	None	None	None	None	None	
057	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
058	A	None	No	No	No	None	None	None	None	None	None	
058	B	Trace (<1%)	No	Yes	No	None	None	Bryozoa/Hydroids	None	None	None	
058	C	None	No	Yes	No	None	None	None	None	None	None	
059	A	Trace (<1%)	No	Yes	No	None	None	Bryozoa/Hydroids	None	None	None	
059	B	Trace (<1%)	No	No	No	None	None	Bryozoa/Hydroids	None	None	None	
059	C	None	No	No	No	None	None	None	None	None	None	
060	B	None	No	No	No	None	None	None	None	None	None	
060	C	None	No	No	No	None	None	None	None	None	None	
060	D	Trace (<1%)	No	No	No	None	None	None	Sea Urchins, Sea Star	None	None	
061	A	None	No	No	No	None	None	None	None	None	None	
061	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	
061	D	None	No	No	No	None	None	None	None	None	None	
062	A	None	No	No	No	None	None	None	None	None	None	
062	D	None	No	No	No	None	None	None	None	None	None	
062	E	None	No	No	No	None	None	None	None	None	None	
063	A	None	IND	IND	IND	IND	IND	IND	IND	IND	None	
063	B	None	No	IND	IND	IND	IND	IND	IND	IND	None	
063	C	None	No	No	No	None	None	None	None	None	None	
064	A	None	No	Yes	No	None	None	None	None	None	None	
064	B	None	No	No	No	None	None	None	None	None	None	
064	C	None	No	No	No	None	None	None	None	None	None	
065	A	None	No	No	No	None	None	Mussels	None	None	None	
065	C	None	No	No	No	None	None	Mussels	None	None	None	

Station ID	Replicate	Percent Cover of All Attached Fauna	Burrows Present?	Tracks Present?	Tubes Present?	Eggs	Infauna[1]	Sessile Epifauna	Mobile Epifauna	Macroalgae	Fish	Comments
065	D	None	No	No	No	None	None	Mussels	None	None	None	
066	A	None	No	No	No	None	Clams	None	None	None	None	Bivalve siphons visible, species unidentified.
066	C	None	No	No	No	None	None	None	None	None	None	
066	D	None	No	No	No	None	None	None	None	None	None	Several surfclam shells on sediment surface.
067	A	None	No	No	Yes	None	Diopatra	None	None	None	None	
067	C	None	No	No	No	None	None	None	None	None	None	
067	D	None	No	No	No	None	None	None	None	None	None	
068	A	None	No	No	No	None	None	None	None	None	None	
068	B	None	No	No	No	None	None	None	None	None	None	
068	D	None	No	No	No	None	None	None	None	None	None	
069	A	None	No	No	No	None	None	None	None	None	None	
069	B	None	No	No	No	None	None	None	None	None	None	
069	C	None	No	No	No	None	None	None	None	None	None	
070	A	None	No	No	No	None	None	None	None	None	None	
070	B	None	No	No	No	None	None	None	None	None	None	
070	C	None	No	No	No	None	None	None	None	None	None	
071	A	Trace (<1%)	No	No	No	None	None	Mussels	Hermit Crabs	None	None	
071	C	Sparse (1 to <30%)	No	No	No	None	None	Mussels	Hermit Crabs	None	None	
071	D	Moderate (30 to <70%)	No	No	No	None	None	Mussels	Hermit Crabs	None	None	
072	B	Dense (70 to <90%)	No	No	No	None	None	Mussels	None	None	None	
072	C	Moderate (30 to <70%)	No	No	No	None	None	Mussels, Sponge	Hermit Crabs	None	None	
072	D	Dense (70 to <90%)	No	No	No	None	None	Mussels	None	None	None	
073	A	None	No	No	No	None	None	None	None	None	None	
073	B	None	No	No	No	None	None	None	None	None	None	
073	C	None	No	No	No	None	None	Mussels	None	None	None	
074	A	None	No	No	No	None	None	None	Hermit Crab	None	None	
074	C	None	No	No	No	None	None	None	None	None	None	
074	D	None	No	No	No	None	None	None	None	None	None	
075	B	None	No	No	No	None	None	None	None	None	None	
075	C	None	No	No	No	None	None	None	None	None	Flounder	
075	D	None	No	No	No	None	None	None	None	None	None	
076	A	None	No	No	No	None	None	None	None	None	None	
076	B	None	No	No	No	None	None	None	None	None	None	
076	C	None	No	No	No	None	None	None	None	None	None	
077	A	None	No	No	No	None	None	None	None	None	None	
077	B	None	No	No	No	None	None	None	None	None	None	
077	E	None	No	No	No	None	None	None	None	None	None	
078	A	None	No	No	No	None	None	None	None	None	None	
078	B	None	No	No	No	None	None	None	None	None	None	
078	D	None	No	No	No	None	None	None	Hermit Crab	None	None	
079	A	Trace (<1%)	No	No	No	None	None	Mussels	Hermit Crab	None	None	
079	B	None	No	No	No	None	None	None	None	None	None	
079	C	None	No	No	No	None	None	None	Hermit Crab	None	None	

Station ID	Replicate	Percent Cover of All Attached Fauna	Burrows Present?	Tracks Present?	Tubes Present?	Eggs	Infauna[1]	Sessile Epifauna	Mobile Epifauna	Macroalgae	Fish	Comments
080	A	None	No	No	Yes	None	Diopatra	None	Hermit Crab	Red Algae	None	
080	B	None	No	No	Yes	None	Diopatra	None	None	None	None	
080	C	None	No	No	Yes	None	Diopatra	None	Hermit Crab	None	None	
081	A	None	No	No	No	None	None	None	None	None	None	
081	B	None	No	No	Yes	None	None	None	None	None	None	
081	D	None	No	No	Yes	None	None	None	None	None	None	
082	B	None	No	No	No	None	None	None	None	None	None	
082	C	Trace (<1%)	No	No	Yes	None	None	Mussels	None	None	None	
082	D	None	No	No	Yes	None	None	None	None	None	None	
083	B	None	No	No	Yes	None	None	None	Hermit Crab	None	None	
083	C	None	No	No	Yes	None	None	None	None	None	None	
083	D	None	No	No	Yes	None	None	None	Hermit Crab	None	None	
084	A	None	No	No	Yes	None	None	None	None	None	None	
084	B	None	No	No	Yes	None	None	None	None	None	None	
084	C	None	No	No	No	None	None	None	None	None	None	
085	A	None	No	No	Yes	None	None	None	None	None	None	
085	C	None	No	No	No	None	None	None	None	None	None	
085	D	None	No	No	No	None	None	None	None	None	None	
086	C	None	No	No	No	None	None	None	None	None	None	
086	D	None	No	No	No	None	None	None	None	None	None	
086	E	None	No	No	Yes	None	None	None	None	None	None	
087	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
087	D	None	No	IND	No	None	None	None	None	None	None	
087	E	None	No	No	No	None	None	None	None	None	None	
088	B	None	No	No	Yes	None	None	None	None	None	None	
088	C	None	No	No	Yes	None	None	None	None	None	None	
088	D	None	No	No	Yes	None	None	None	None	None	None	
089	A	None	No	No	No	None	None	None	None	None	None	
089	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
089	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
090	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
090	B	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
090	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
091	A	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
091	C	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.
091	D	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND	Very turbid, no visible seafloor.

Appendix E – Sediment Sample Log Forms

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/2/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1 _002		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 8cm	**Sample Time:** (local) 20:27
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight (Strong) Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota None

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: 002C (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R/OP	R/OP	A/OP		

Field Activities / Comments / Observations:

Mud doors added

Overpenetrated - sample accepted after 3 reps

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/2/23	Vessel: R/V Atlantic Surveyor	Recorder: MK.
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 8	**Sample Time:** (local) 21:00
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight (Strong) Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: 002D (BEA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud boots used

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/2/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 8	**Sample Time:** (local) 21:20
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: 002E (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A/OP				

Field Activities / Comments / Observations:

Mud boots used

Overpenetrated - still accepted based on poor reps

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/2/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 21:43
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: 003A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A / OP				

Field Activities / Comments / Observations:

Mud doors used

Accepted due to proximity to 002

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/2/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 22:06
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: 003B (GS/BCA)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A/OP				

Field Activities / Comments / Observations:

Mud doors used

Overpenetration accepted due to previous rep

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/2/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9	**Sample Time:** (local) 22:24
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum).

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: 003C (BEA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

MVs doors used

Slight over pen - accepted based on previous reps

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/2/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 22:42
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota Worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: 005A (BEA/GSS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A / OP				

Field Activities / Comments / Observations:

Mud doors used

Accepted due to proximity to stn 002+003

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/2/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 23:23
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota Worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: 005G (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A / OP				

Field Activities / Comments / Observations:

M/2 doors used

Accepted due to previous rep

Grab did not trigger several times

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/2/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		Photograph (Y/N – file)	
Client and/or INSPIRE Sampling Staff: MK + JG		Penetration (cm): 9.5	Sample Time: (local) 23:44
Sampling Gear: Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight (Strong) Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: (Yes) No Type: Shells

Overlying Water Present: Yes (No)

Misc: Biota Worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: 005# (GS/BCA)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A / OP				

Field Activities / Comments / Observations:

Mod does used

Accepted due to previous reps

Field Team Leader Signature and Approval _____

Page ____ of ____

Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 00:31
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_007C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
OT - No trigger	R - NS	A		

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 00:56
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_007D

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Slight OP, based on prev acceptng
mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 9 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/23	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 01:18
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_007E

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 9/03/2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm):	**Sample Time:** (local) 01:43
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_001A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:
mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/20223	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 01:58
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW23B1_GRAB-0009B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG/SV/GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 02:14
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_0009C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 02:42
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_011A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 02:59
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None Slight (Strong) Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: (Yes) No Type: Shells

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_1B

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 03:16
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-01C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 8.5	**Sample Time:** (local) 03:37
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-013A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GC		**Penetration** (cm): 9	**Sample Time:** (local) 03:55
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_0138

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 04:13
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-013C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____ Page 1 of 1

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 04:39
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-01SA

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 05:00
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt Clay) Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_015C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-NS	A			

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09/03/2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 05:22
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) (Clay) Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_015E

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-DB	A			

Field Activities / Comments / Observations:

mud doors used

- clam shell prevented closure on first attempt

Field Team Leader Signature and Approval _____ Page 1 of 1

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 05:35
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt Clay) Wood chips (Shells or Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_017A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 6.5	**Sample Time:** (local) 05:59
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_017

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-DB	A			

Field Activities / Comments / Observations:

mud doors used

first Attempt a shell prevented closure

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09/03/2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 8	**Sample Time:** (local) 06:24
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB-017D

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

* photo board mislabeled as "019A", time is correct in photo.

Field Team Leader Signature and Approval _____

Page 1 of 1

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 06:49
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_019A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

MUD doors

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm):	**Sample Time:** (local)
Sampling Gear Single Van Veen 0.04 m²		8	07:09

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft Loose) Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_0191B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09/05/2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 7.5	**Sample Time:** (local) 07:31
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft Loose) Other:

Debris Present: (Yes) No Type: Shells

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_01PIC

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 08:01
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray (Black)
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: (Yes) No Type: Seaweed

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB-021C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R- DB	R- DB	A		

Field Activities / Comments / Observations:

- Mud doors removed after 1st Attempt
- 2 weights Added after 2nd Attempt

Field Team Leader Signature and Approval

Reviewed/Approved Date 09/03/2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/08/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 08:21
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay (Wood chips) (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: Shells

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_001D

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09/03/2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 7	**Sample Time:** (local) 09:00
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft Loose) Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_021I

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	5 ~~Notes~~
R-DB	R-DB	R-DB	R. DB	A

Field Activities / Comments / Observations:

moved off station ~ 16 m and attmtd again due to debris on bottom.

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 8	**Sample Time:** (local) 09:22
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: UNKNOWN

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-23A

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09 / 03 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 09:45
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight (Strong) Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

***Sample Interval Range** (i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_023C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R DB	A			

Field Activities / Comments / Observations:

3 weights used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09/03/2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/03/2023	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 7.5	**Sample Time:** (local) 13:54
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: Shells

Overlying Water Present: Yes (No)

Misc: Biota small tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB-023I (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-DB	R-DB	R-DB	R-NS	A

Field Activities / Comments / Observations:

Moved off station after 3rd attempt

3 weights

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9	**Sample Time:** (local) 14:45
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble (Trace) Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips (Shells) or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota Mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-025C (BCA|GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-DB	R-DB	A		

Field Activities / Comments / Observations:

3 weights

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 7.5	**Sample Time:** (local) 15:16
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble (trace) Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips (Shells) or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms, mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_025 (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R - DB	A			

Field Activities / Comments / Observations:

3 weights

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9	**Sample Time:** (local) 15:37
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota mussel, slipper shells, tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_025 (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes

Field Activities / Comments / Observations:

three weights

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 6	**Sample Time:** (local) 16:07
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine) Silt Clay Wood chips (Shells) or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms, mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_2331_GRAB_027A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:
Three weights

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/3/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 6	**Sample Time:** (local) 16:41
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips (Shells) or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota Tube worms, mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_0271D (BCA + GSD)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
OT	OT	A		

Field Activities / Comments / Observations:

Three weights

* Photo labeled rep "E"

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/3/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 8	**Sample Time:** (local) 17:01
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips (Shells) or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms, mussels, hermit crabs

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-027E (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

~~Three~~ Five weights

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9	**Sample Time:** (local) 18:17
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms, slipper shells

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-029C (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-OP	R-OP	A		

Field Activities / Comments / Observations:

~~5 weights~~, ~~0 weights~~, mid doors

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 8.5	**Sample Time:** (local) 18:36
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells) or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms, slipper shells, crab

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23BL_GRAB_029D (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud doors

photo time labeled "18:38"

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/3/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 8	**Sample Time:** (local) 19:01
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash
Other:

Odor: ~~None~~ Slight (Strong) Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms, slipper shells, crab

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_029 F (CBCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-DB	A			

Field Activities / Comments / Observations:

Mud boots

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9	**Sample Time:** (local) 19:28
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash (trace)
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_03IB (CBCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-OT	A			

Field Activities / Comments / Observations:

MUD boots

Field Team Leader Signature and Approval _____ Page ____ of ____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/3/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9	**Sample Time:** (local) 19:48
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_031C (BUA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud doors

~~*~~ photo labeled rep "B"

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/3/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 20:04
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota hermit crabs

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-031D (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud boots

Field Team Leader Signature and Approval _____ Page ____ of ____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 8	**Sample Time:** (local) 20:38
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-033C (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
No trigger	No trigger	A		

Field Activities / Comments / Observations:

Mud boots

Field Team Leader Signature and Approval _____ Page ____ of ____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 20:53
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_033D (CBCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud boots

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK · JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 21:11
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_033E (CBLA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud doors

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/3/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 21:40
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash (trace) Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_035A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

MJ & JOOPS

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/3/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 22:00
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash (trace)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1-GRAB_035B (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud boots

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/3/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 22:16
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash (trace)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_035C (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud doors

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 22:37
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or (trace Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-037A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

MJC 2005

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 22:54
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash (trace)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-037B (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud boots

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/3/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 23:11
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_037C (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors

Field Team Leader Signature and Approval _____ Page ____ of ____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/3/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 8	**Sample Time:** (local) 23:39
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips (Shells) or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota mussels, slipper shells

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_039B (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-DB	A			

Field Activities / Comments / Observations:

5 weights

Field Team Leader Signature and Approval _____ Page ____ of ____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 00:20
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_039G

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-DB	OT-No trip	R-DB	A	

Field Activities / Comments / Observations:

Some debris in jaws, but accepted given shell hash conditions.

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 00:42
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: Shells

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_ 039I

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
OT - No trigger				

Field Activities / Comments / Observations:

Some debris in jaws, but given accepted given prev. drops

Field Team Leader Signature and Approval _____

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Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 9	**Sample Time:** (local) 01:12
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: Shells

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_041B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
OT-Nothing	A			

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 01:31
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_041C

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes

Field Activities / Comments / Observations:

2 JARS

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date 09 / 04 / 2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 7	**Sample Time:** (local) 01:49
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_03B1_GRAB_041E

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
OT-Nothing	A			

Field Activities / Comments / Observations:

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Reviewed/Approved Date 09/04/2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8.5	**Sample Time:** (local) 02:16
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_043A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

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Reviewed/Approved Date 09 / 04 / 2024

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 0234
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash) Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_043B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 02:50
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_043C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SU, KG, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 03:09
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type: Shells

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-045A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 8.5	**Sample Time:** (local) 02:27
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray (Black)
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight (Strong) Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB_045B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 03:55
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_045D

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R - DB	A			

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 04:14
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray (Black)
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm ~~Soft~~ (Loose) Other:

Debris Present: (Yes) No Type: shells

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-047A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 04:40
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray (Black)
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: shell

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_047B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 0.8	**Sample Time:** (local) 05:03
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray (Black)
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: Shell

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-047C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GC		**Penetration** (cm): 7	**Sample Time:** (local) 05:30
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_049A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 05:46
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_049B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): C1	**Sample Time:** (local) 06:02
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_049C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date 09/01/2023

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, SG		**Penetration** (cm): 9.7	**Sample Time:** (local) 07:00
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: (Yes) No Type:

Overlying Water Present: (Yes) No

Misc: Biota worm R-ef (tubes)

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-05IG

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	5 Notes: 7-1-18
R-OP	ST - No [illegible]	ST - No [illegible]	R-OP	R-OP NOTIFD. A

Field Activities / Comments / Observations:

8 WTS 4 WTS 3 WTS

Accepted After 4 attempts w/ fewer animals very slight OP, but acceptable - tubes present on surface.

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/01/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 9	**Sample Time:** (local) 07:19
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota worm reef (tubes)

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

***Sample Interval Range** (i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-0514

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

NO weights

Field Team Leader Signature and Approval _____

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Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 07:32
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes No

Misc: Biota worm reef tubes

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB — 05II

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

No weights

Field Team Leader Signature and Approval _____

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Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 9	**Sample Time:** (local) 07:57
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_053A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

No weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 7	**Sample Time:** (local) 08:04
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_053B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

w/o weights

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 08:16
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_053C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

Field Team Leader Signature and Approval _____ Page 1 of 1

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 08:28
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_055A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm):	**Sample Time:** (local) 08:43
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB-05SB

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm):	**Sample Time:** (local) 08:54
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_055C

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 09:09
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_057A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 7.5	**Sample Time:** (local) 09:19
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-057B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 7.5	**Sample Time:** (local) 09:31
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW.23B1_GRAB_057C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____ Page ____ of ____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GL		**Penetration** (cm): 8	**Sample Time:** (local) 09:46
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB-059A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8.5	**Sample Time:** (local) 10:58
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard (Solid) Firm Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_069A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2024	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8.5	**Sample Time:** (local) 11:12
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard (Solid) Firm Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B_LGRAB_069B

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2024	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8.5	**Sample Time:** (local) 11:27
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard (Solid) Firm Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB069D

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-OP	A			

Field Activities / Comments / Observations:

~~two~~ weights on Rep "2"

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/4/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 12:23
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB-067C (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 7.5	**Sample Time:** (local) 11:44
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard (Solid) Firm Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_067A

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/04/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8.8	**Sample Time:** (local) 11:54
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard (Solid) Firm Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_067B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/04/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV MK + JG		**Penetration** (cm): 6.5	**Sample Time:** (local) 12:52
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips (Shells) or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms, mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_065E (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	5 Notes
R-DB	R-DB	R-NS	R-NS	A

Field Activities / Comments / Observations:

3 weights

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Field Team Leader Signature and Approval _____ Page ____ of ____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/4/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 5.5	**Sample Time:** (local) 13:14
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble (trace) Gravel Sand (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms, mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_065F (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

Moved off station

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 8	**Sample Time:** (local) 13:33
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble (fine) Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota Sponge, Mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_065G (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

Moved off station

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 7	**Sample Time:** (local) 14:15
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota Hermit crab, mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_059I (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R- DB	R-Out of circle	A		

Field Activities / Comments / Observations:

3 weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 7.5	**Sample Time:** (local) 14:33
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_059J (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** ~~9/4/23~~ 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 14:54
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_06_A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MIC
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MIC + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 15:16
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB-061B (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 15:44
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips (Shells) or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_061D (BEA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R- DB	A			

Field Activities / Comments / Observations:

3 weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 16:16
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_063B (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-DB	A			

Field Activities / Comments / Observations:

3 weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local)
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_063D (BLA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-OP	A			

Field Activities / Comments / Observations:

~~3 weights~~ 1 weight

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9	**Sample Time:** (local) 17:23
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_063H (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-DB	R-DB	A		

Field Activities / Comments / Observations:

~~3 weights~~ 1 weight

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/4/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 18:21
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (trace coarse med fine) Silt Clay Wood chips Shells or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota crab

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_07_A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/4/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + SG		**Penetration** (cm): 3.5	**Sample Time:** (local) 18:57
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black Other:

Type: Cobble (Gravel) (Sand) (coarse med fine) Silt Clay Wood chips (Shells) or (Shell Hash) Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota Mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-071E (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-DB	R-DB	R-DB	A-DB	

Field Activities / Comments / Observations:

1 weight

Mover off site after 3rd rep

Accepted w/ partial recovery due to prior reps

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/4/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + SG		**Penetration** (cm): 7	**Sample Time:** (local) 19:18
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray (Light Gray) Dark Gray Black
Other:

Type: Cobble (Gravel) (Sand) (coarse med fine) Silt Clay Wood chips (Shells) or (Shell Hash)
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota mussels, hermit crabs

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-071H (BEA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-DB	R-DB	A		

Field Activities / Comments / Observations:

weight

Accepted w partial washout based on previous samples

Field Team Leader Signature and Approval _____ Page ____ of ____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 19:40
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_073A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm):	**Sample Time:** (local) 20:06
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble (trace) Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_073B (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 20:42
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble (Gravel) (Sand) (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota mussels, clams

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_073C

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 21:13
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota clams

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_075A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 8	**Sample Time:** (local) 21:38
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble (Gravel) (Sand) (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_075B (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/4/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 7	**Sample Time:** (local) 22:02
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_075C (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9	**Sample Time:** (local) 22:25
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota clam

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_077A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/4/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9.5	**Sample Time:** (local) 22:50
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand (coarse med fine)) Silt Clay Wood chips Shells or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota Clam

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_077B (BEA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK : JG		**Penetration** (cm): 8	**Sample Time:** (local) 23:20
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_077C (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/4/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9	**Sample Time:** (local) 23:44
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_079A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 00:12
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_079C (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-OP	A			

Field Activities / Comments / Observations:

Remaid weight after 1st drop, Accepted w/ NO weights

Field Team Leader Signature and Approval _____

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Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 9.5	**Sample Time:** (local) 00:36
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-079D (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

no weights

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8.7	**Sample Time:** (local) 01:01
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_081A

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 7.8	**Sample Time:** (local) 01:11
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-081B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 9	**Sample Time:** (local) 01:21
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GRAB-081C

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

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Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 8	**Sample Time:** (local) 01:34
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB-083A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

NO weights

Field Team Leader Signature and Approval _____

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Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 7	**Sample Time:** (local) 01:43
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB-003B (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

no weight

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): ~4	**Sample Time:** (local) 01:51
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_08SC (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 7	**Sample Time:** (local) 02:10
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_035A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Weight

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 8	**Sample Time:** (local) 02:23
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-GrabA-085B (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

2 weights used

Field Team Leader Signature and Approval _____

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Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2021	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV/KG/GG		**Penetration** (cm): 9	**Sample Time:** (local) 02:35
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):* (GS/BCA)

Sample ID: EW-23B1-GRAB-085C

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

2 weights used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 04/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 02:52
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_087A (BCA, GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 7.5	**Sample Time:** (local) 03:03
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_08?B (BCA, GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

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Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8.5	**Sample Time:** (local) 03:13
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_087C (GS/BCA)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

2 weights used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 03:30
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB-089B (GS/BCA)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1(A)	2	3	4	Notes
OT-Pre trip	A			

Field Activities / Comments / Observations:

2 weights used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 0351
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_0891D

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1(c)	2	3	4	Notes
OT-Prep	A			

Field Activities / Comments / Observations:

2 weights used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/03/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 04:04
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_GRAB_089E (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 8	**Sample Time:** (local) 04:22
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_091A (BCA/GS)

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

2 weights used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 7	**Sample Time:** (local) 04:39
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB_091B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

1 weight used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm): 7	**Sample Time:** (local) 04:56
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_GRAB.091E

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-DB	R-DR			

Field Activities / Comments / Observations:

3 weights used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name:	Date:	Vessel:	Recorder:
Empire Wind	09/05/2023	R/V Atlantic Surveyor	KG

Survey ID/Station ID:	Photograph (Y/N – file)
EW_~~SPIPV~~_23B1_CHEM_093A	Y

Client and/or INSPIRE Sampling Staff:	Penetration (cm):	Sample Time: (local)
SV, KG, GG	~8	09:46

Sampling Gear
Single Van Veen 0.04 m²

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_093

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name:	Date:	Vessel:	Recorder:
Empire Wind	09/05/2023	R/V Atlantic Surveyor	KG

Survey ID/Station ID:	Photograph (Y/N – file)
EW_~~SPIPV~~_23B1_CHEM-092A	Y

Client and/or INSPIRE Sampling Staff:	Penetration (cm):	Sample Time: (local)
KG, SV, GG	~ 8	10:11

Sampling Gear
Single Van Veen 0.04 m²

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med (fine)) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota
CRAB

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_092

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1_CHEM_049B		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): ~8	**Sample Time:** (local) 10:31
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse (med) fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_049B

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-OP	A			

Field Activities / Comments / Observations:

2 weights used

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1 _CHEM_094A		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): ~8	**Sample Time:** (local) 10:48
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash) Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_CHEM_094

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/25/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1_CHEM_045A		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG		**Penetration** (cm): 9	**Sample Time:** (local) 11:02
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray (BOTH) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft Loose Other:

Debris Present: Yes No Type:

Overlying Water Present: Yes No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_CHEM_045

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM-095A		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): ~7	**Sample Time:** (local) 11:14
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray (Black)
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_CHEM_095

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/05/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1 _ CHEM_096A		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 7	**Sample Time:** (local) 11:41
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray (Black)
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: Shells

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_096

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/05/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1 _ CHEM-411		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SV, KG, GG		**Penetration** (cm):	**Sample Time:** (local) 12:00
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray (Black)
Other:

Type: Cobble Gravel (Sand (coarse med fine)) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: (Yes) No Type: Shells

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_CHEM-041

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-DB	R-DB	R-DB	A	

Field Activities / Comments / Observations:

some shells in jaws, Accepted based on prev. drops, removed large shells before collecting sample.

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1 _CHEM_097A + B		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~6	**Sample Time:** (local) 12:17
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips (Shells) or (Shell Hash) Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota Crab, slipper shells, mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM097

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

Shells removed from top of grab

Not enough sediment recovered, need additional grab

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_~~SPIRV~~_23B1_CHEM_097B		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~6	**Sample Time:** (local) 12:49
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota Mussels

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-CHEM-097

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

Shells removed from surface

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_099		Photograph (Y/N – file) Y	
Client and/or INSPIRE Sampling Staff: MK + JG		Penetration (cm): ~9	Sample Time: (local) 13:02
Sampling Gear: Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_099

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_037C (D)- MS/MSD		Photograph (Y/N – file)	
Client and/or INSPIRE Sampling Staff: MK + JG		Penetration (cm): ~8	Sample Time: (local) 13:29 13:44 (MS/MSD)
Sampling Gear: Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_037

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-OP	R-NS	A	A-MS/MSD	

Field Activities / Comments / Observations:

~~Tweight~~, mud doors

MS/MSD sample taken on additional rep

Photo stn name not changed - labeled "099"

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_098B		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~9	**Sample Time:** (local) 14:01
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_098

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-UP	A			

Field Activities / Comments / Observations:

~~Mode doors~~, no weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_100B (C - Field Dup)		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~8	**Sample Time:** (local) 14:27 14:39 (field dup)
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_100
EW_23B1_CHEM_DUP01

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-OP	A	A-Field Dup		

Field Activities / Comments / Observations:

~~No weights~~, mud boots

Field duplicate taken on additional rep ~~cast~~

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW~~_SPIPV~~_23B1_CHEM_033C		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~9.5	**Sample Time:** (local) 14:58
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_033

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-NS	R-NS	A		

Field Activities / Comments / Observations:

~~Mud boots~~, ~~Mud boots~~, No weights

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_101C		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): 9	**Sample Time:** (local) 15:24
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_CHEM_101

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-OP	R-OP	A		

Field Activities / Comments / Observations:

~~Add weights~~, ~~0 weights~~, Mid doors

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_112B		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + SG		**Penetration** (cm): ~ 9.5	**Sample Time:** (local) 16:50
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_112

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-NS	A			

Field Activities / Comments / Observations:

Mud doors

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/22	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_009A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~9	**Sample Time:** (local) 17:00
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_009

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud boots

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_SPIPV_~~23B1~~ CHEM_113A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~9	**Sample Time:** (local) 17:12
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_113

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud doors

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_114A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~8	**Sample Time:** (local) 17:29
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or (Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_114

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud boots

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_~~SRIBV~~_23B1_CHEM_005A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~7	**Sample Time:** (local) 17:42
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or (Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_005

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud dogs

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1_CHEM_115A (B-MS/MSD)		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~8.5	**Sample Time:** (local) 17:57 18:09 (MS/MSD)
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or (Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_115

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A	A-MS/MSD			

Field Activities / Comments / Observations:

mud doors

A MS/MSD sample taken from seperate rep

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1_ CHEM_110A (B→DUP02)		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~9.5	**Sample Time:** (local) 18:51 19:07 (DUP02)
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_110 + EW_23B1_CHEM_DUP02

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A	A-DUP02			

Field Activities / Comments / Observations:

Mud boots

* Field Duplicate taken on seperate rep

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1_CHEM_013A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~9.5	**Sample Time:** (local)
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_013

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

MUC 0013

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM-111B		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~9	**Sample Time:** (local) 19:31
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or (Shell Hash)
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM-111

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
M.S Fire	A			

Field Activities / Comments / Observations:

Mud doors

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1 - CHEM_108F		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~6	**Sample Time:** (local) 19:59
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray (Olive Gray) Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_108

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	5	Notes 6
Mis Fire	Mis Fire	R-NS	R-DB	R-DB	A

Field Activities / Comments / Observations:

Mud boots

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_017A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~8	**Sample Time:** (local) 20:13
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med (fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota Tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_017

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

MJC 0005

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1_CHEM_109A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~8.5	**Sample Time:** (local) 20:27
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_109

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Mud boots

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INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_104A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~7	**Sample Time:** (local) 20:45
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble (Gravel) (Sand) (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota ~~Algae~~

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_104

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

~~Grab Photos~~

three weights

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1_CHEM-025A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~8	**Sample Time:** (local) 20:58
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_CHEM-025

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1_CHEM_105A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~8	**Sample Time:** (local) 21:11
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota tube worms

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-CHEM_105

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

3 weights

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 9/5/23	Vessel: R/V Atlantic Surveyor	Recorder: MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1 _CHEM_ 102D		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~15	**Sample Time:** (local) 0129
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand (coarse med fine) Silt) Clay Wood chips (Shells) or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota Crab

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_102

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-NS	R-OP	R-NS	A	

Field Activities / Comments / Observations:

~~Met doors~~, ~~Weights~~, Met doors

Trouble w/ triggering grab due to currents

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1_CHEM_029A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~8	**Sample Time:** (local) 21:51
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips (Shells or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1-CHEM-029

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud boots

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1 -CHEM-103A (B3 - DUP03)		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~7	**Sample Time:** (local) 22:05 22:18 (DUP03)
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips (Shells) or Shell Hash
Other:

Odor: None (Slight) Strong Petroleum (H_2S) Other:

Density: Hard Solid Firm Soft (Loose) Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_CHEM_103 + EW_23B1_CHEM_DUP03

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
A	A-Field Dup			

Field Activities / Comments / Observations:

Mud doors

~~Field Duplicate~~ taken from additional rep ~~A~~ → EW_23B1_CHEM_DUP03

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1_CHEM_106A		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~9	**Sample Time:** (local) 22:49
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) (Silt) Clay Wood chips Shells or (Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_106

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-DB	A			

Field Activities / Comments / Observations:

3 weights

Moved offsite due to BCA/GS samples at 021

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_SPIPV_23B1_CHEM_021E		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~7	**Sample Time:** (local) 23:20
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: (Light Brown) Tannish Orange Greenish Gray Olive Gray Light Gray Dark Gray Black
Other:

Type: Cobble Gravel (Sand (coarse med fine)) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_CHEM_021

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
R-DB	R-DB	R-DB	R-DB	A

Field Activities / Comments / Observations:

3 weights

Moved offsite for reps 2+3

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 9/5/23	**Vessel:** R/V Atlantic Surveyor	**Recorder:** MK
Survey ID/Station ID: EW_~~SPIPV~~_23B1_CHEM_107B		**Photograph (Y/N – file)**	
Client and/or INSPIRE Sampling Staff: MK + JG		**Penetration** (cm): ~6	**Sample Time:** (local) 23:35
Sampling Gear Single Van Veen 0.04 m^2			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel (Sand) (coarse med fine) Silt Clay Wood chips (Shells or Shell Hash)
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid (Firm) Soft Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: (Yes) No

Misc: Biota crabs

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_107

Grab Number (A= Accepted; R = Rejected)

Codes: DB *= Debris Interference;* ***DS*** *= Disturbed Surface;* ***NS*** *= No Sediment in sampler;* ***OP*** *= Over Penetration;* ***OT*** *= Other*

1	2	3	4	Notes
R-DB	A			

Field Activities / Comments / Observations:

3 weights

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/06/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1 _CHEM_1116A		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: SU, KG, GG		**Penetration (cm):** 9.5	**Sample Time: (local)** 00:41
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: None Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

***Sample Interval Range** (i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW-23B1_CHEM_1116_

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1(A)	2 (B)	3(C)	4	Notes
A	R - OP	A - MS/MSD		

Field Activities / Comments / Observations:

mud doors used - Slight over penetration, Accepting based on prev. grabs. Incorrect date in photo - "9/5" should be "9/6"

MS/MSD sample taken on additional Rep.

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date ____/____/____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	**Date:** 09/06/2023	**Vessel:** R/V Atlantic Surveyor	**Recorder:** KG
Survey ID/Station ID: EW_SPIPV_23B1_CHEM_02A		**Photograph (Y/N – file)** Y	
Client and/or INSPIRE Sampling Staff: KG, SV, GG		**Penetration** (cm): 95	**Sample Time:** (local) 01:26
Sampling Gear Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_02

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

mud doors used

Field Team Leader Signature and Approval _____

Reviewed/Approved Date _____/_____/_____

INSPIRE ENVIRONMENTAL

Surface Sediment Sample - Log Form for Grain Size

Project Name: Empire Wind	Date: 09/06/2023	Vessel: R/V Atlantic Surveyor	Recorder: KG
Survey ID/Station ID: EW_SPIPV_23B1 CHEM-117		Photograph (Y/N – file) Y	
Client and/or INSPIRE Sampling Staff: KG, SU, GG		Penetration (cm): 9.5	Sample Time: (local) 01:41
Sampling Gear: Single Van Veen 0.04 m²			

Sample Description

Color: Light Brown Tannish Orange Greenish Gray Olive Gray Light Gray (Dark Gray) Black
Other:

Type: Cobble Gravel Sand (coarse med fine) (Silt) Clay Wood chips Shells or Shell Hash
Other:

Odor: (None) Slight Strong Petroleum H_2S Other:

Density: Hard Solid Firm (Soft) Loose Other:

Debris Present: Yes (No) Type:

Overlying Water Present: Yes (No)

Misc: Biota

Detritus

Sediment Sample – Particle Size (500-gram sample, 250 grams minimum)

Sample Interval Range *(i.e., 0-5 cm or 0-10 cm):*

Sample ID: EW_23B1_CHEM_117

Grab Number (A= Accepted; R = Rejected)

***Codes: DB** = Debris Interference; **DS** = Disturbed Surface; **NS** = No Sediment in sampler; **OP** = Over Penetration; **OT** = Other*

1	2	3	4	Notes
A				

Field Activities / Comments / Observations:

Slight, OP, Accepted based on prev. drops
mud doors used

Field Team Leader Signature and Approval _____ Page ____ of ____

Reviewed/Approved Date _____/_____/_____

Appendix F – Sediment Grain Size and Chemistry Results

Notes:
U=Analyte was not detected (non-detect).
J=Estimated value was less than RL.
Grain Size: Non-detect results (U qualifier) did not contribute toward grain size distribution results.
Grain Size: Wentworth classification was used in laboratory analysis for scale of grain size results.
Chemistry: For non-detect results (U qualifier), 1/2 MDL was used for summarization.
1 Laboratory duplicate. Values were averaged with station replicates for summarization.
2 Field duplicates (Sample ID "DUP") were averaged with station replicates before summation of totals.
3 Station 108 Pyrene and Fluoranthene laboratory replicates exceeded the calibration range, and secondary laboratory replicates were analyzed.

Group	Sample ID	Station ID	Replicate	Method Detection and Reporting Limits (%)	Boulder (%) (>256 mm)	Cobbles (%) (64-256 mm)	Pebble (%) (4.0-64 mm)	Granule (%) (2.0-4.0 mm)	Total Gravel (%)	Very Coarse Sand (%) (1.0-2.0 mm)	Coarse Sand (%) (0.5-1.0 mm)	Medium Sand (%) 0.25-0.5 mm)	Fine Sand (%) 0.125-0.25 mm)	Very Fine Sand (%) (0.0625-0.125 mm)
Bay Ridge Channel	EW_23B1_GRAB_002C	002	C	0.1	U	U	U	0.8	0.8	6.1	3.5	1.1	0.6	0.5
Bay Ridge Channel	EW_23B1_GRAB_002D	002	D	0.1	U	U	0.2	2	2.2	5.4	1.8	0.7	0.4	0.6
Bay Ridge Channel	EW_23B1_GRAB_002E	002	E	0.1	U	U	0.1	0.7	0.8	2.7	2.1	0.8	0.5	0.9
Bay Ridge Channel	EW_23B1_GRAB_003A	003	A	0.1	U	U	U	3.9	3.9	12	8	3.2	1.4	1.7
Bay Ridge Channel	EW_23B1_GRAB_003B	003	B	0.1	U	U	0.5	4.8	5.3	16	8.1	2.6	1.2	1.8
Bay Ridge Channel	EW_23B1_GRAB_003C	003	C	0.1	U	U	U	4	4	12.6	5.2	1.8	0.9	1.6
Bay Ridge Channel	EW_23B1_GRAB_005A	005	A	0.1	U	U	0.1	1.2	1.3	11.1	8.2	2.7	1.8	5.5
Bay Ridge Channel	EW_23B1_GRAB_005G	005	G	0.1	U	U	U	3.8	3.8	10.3	5.5	2.4	1.8	7.2
Bay Ridge Channel	EW_23B1_GRAB_005H	005	H	0.1	U	U	0.1	6.4	6.5	13.9	8.2	3.3	2.3	6.9
Bay Ridge Channel	EW_23B1_GRAB_007C	007	C	0.1	U	U	2.3	2.5	4.8	13.5	9.9	4	2.3	7.6
Bay Ridge Channel	EW_23B1_GRAB_007D	007	D	0.1	U	U	0.5	2.7	3.2	8.4	6.7	3.5	4	14.1
Bay Ridge Channel	EW_23B1_GRAB_007E	007	E	0.1	U	U	U	0.6	0.6	3.1	3.6	3	2.4	11.3
Bay Ridge Channel	EW_23B1_GRAB_009A	009	A	0.1	U	U	U	2	2	2.3	2.9	2.7	3.1	14.4
Bay Ridge Channel	WG1826090-1-DUP[1]	009	A	0.1	U	U	U	0.3	0.3	1.6	1.9	2.5	2.6	27.1
Bay Ridge Channel	EW_23B1_GRAB_009B	009	B	0.1	U	U	U	0.4	0.4	3.7	4.2	3.2	2.4	15.2
Bay Ridge Channel	EW_23B1_GRAB_009C	009	C	0.1	U	U	0.1	0.9	1	3.9	3	1.7	1.5	13
Bay Ridge Channel	EW_23B1_GRAB_011A	011	A	0.1	U	U	1.2	5.8	7	6.3	3.4	2	3.8	15.1
Bay Ridge Channel	EW_23B1_GRAB_011B	011	B	0.1	U	U	7.2	9.2	16.4	7.2	4.5	3.5	4.2	15.8
Bay Ridge Channel	EW_23B1_GRAB_011C	011	C	0.1	U	U	3.2	10.2	13.4	9.1	5.2	2.8	4.4	14.4
Bay Ridge Channel	EW_23B1_GRAB_013A	013	A	0.1	U	U	0.7	1.6	2.3	3.9	5.2	3.7	11.7	36
Bay Ridge Channel	EW_23B1_GRAB_013B	013	B	0.1	U	U	1	3.9	4.9	5.3	4	2.7	10.3	34.8
Bay Ridge Channel	EW_23B1_GRAB_013C	013	C	0.1	U	U	0.3	2.5	2.8	3.4	6.7	4.7	15.2	35.6
Bay Ridge Channel	WG1827679-1-DUP[1]	013	C	0.1	U	U	U	2.3	2.3	5.9	7.3	6.2	14.9	37.3
Bay Ridge Channel	EW_23B1_GRAB_015A	015	A	0.1	U	U	2.2	6.3	8.5	5.6	3.9	3.7	9.6	41.4
Bay Ridge Channel	EW_23B1_GRAB_015C	015	C	0.1	U	U	1.1	5.9	7	5.3	3.9	3.6	9.5	40.6
Bay Ridge Channel	EW_23B1_GRAB_015E	015	E	0.1	U	U	1.2	5.5	6.7	4.5	4	3.3	8.8	42.2
Verrazano Narrows	EW_23B1_GRAB_017A	017	A	0.1	U	U	6.2	5.7	11.9	8.2	8.2	10.7	27.2	17.3
Verrazano Narrows	EW_23B1_GRAB_017C	017	C	0.1	U	U	24.7	7.1	31.8	4	3.5	5.6	26.7	20.9
Verrazano Narrows	EW_23B1_GRAB_017D	017	D	0.1	U	U	3.6	4.4	8	5.8	7	9.7	19	15.2
Verrazano Narrows	EW_23B1_GRAB_019A	019	A	0.1	U	U	4	4.5	8.5	5.4	5.8	7.3	37.9	9
Verrazano Narrows	EW_23B1_GRAB_019B	019	B	0.1	U	U	6.2	4.3	10.5	3.7	4	5.8	34	7.9
Verrazano Narrows	EW_23B1_GRAB_019C	019	C	0.1	U	U	8.2	7.6	15.8	6.2	5.9	7.4	42.8	8.7
Verrazano Narrows	EW_23B1_GRAB_021C	021	C	0.1	U	U	9.9	7	16.9	7.1	7.4	11.1	36.3	7.3
Verrazano Narrows	EW_23B1_GRAB_021D	021	D	0.1	U	U	7.8	5.9	13.7	6	6.2	10.6	42.9	9.1
Verrazano Narrows	EW_23B1_GRAB_021I	021	I	0.1	U	U	3.7	4.6	8.3	6.4	8	8.7	34.3	8.7
Verrazano Narrows	EW_23B1_GRAB_023A	023	A	0.1	U	U	12.5	4.2	16.7	5	6	13.2	42.8	8.3
Verrazano Narrows	EW_23B1_GRAB_023C	023	C	0.1	U	U	0.4	2.1	2.5	4.5	4.2	5.9	30	12
Verrazano Narrows	EW_23B1_GRAB_023I	023	I	0.1	U	U	6.1	6.1	12.2	6.2	11.8	15.4	37	7.3
Verrazano Narrows	EW_23B1_GRAB_025C	025	C	0.1	U	U	4.9	5.2	10.1	6.4	18	15.5	22.3	5.7
Verrazano Narrows	EW_23B1_GRAB_025E	025	E	0.1	U	U	4.6	3.9	8.5	6.3	18.6	15.4	23.4	5.3
Verrazano Narrows	EW_23B1_GRAB_025F	025	F	0.1	U	U	9	6.7	15.7	7.5	13.1	12.1	36.9	7.5
Verrazano Narrows	EW_23B1_GRAB_027A	027	A	0.1	U	U	10.5	6.2	16.7	6	6.1	11.7	29.8	5.6
Verrazano Narrows	EW_23B1_GRAB_027D	027	D	0.1	U	U	12	10	22	9.1	7.3	8.9	39.8	8.7
Verrazano Narrows	WG1832244-1-DUP[1]	027	D	0.1	U	U	7.6	8.3	15.9	8.7	8.5	11	42.1	7.9
Verrazano Narrows	EW_23B1_GRAB_027E	027	E	0.1	U	U	13.3	8.1	21.4	7.1	5.9	8.9	43	8.7
Verrazano Narrows	EW_23B1_GRAB_029C	029	C	0.1	U	U	20.9	7.6	28.5	5.6	3.4	4.3	20	25.2
Verrazano Narrows	EW_23B1_GRAB_029D	029	D	0.1	U	U	3.1	4.7	7.8	3.9	2.9	3.8	27.7	27.7
Verrazano Narrows	EW_23B1_GRAB_029F	029	F	0.1	U	U	3.5	4.8	8.3	3.5	2.4	3.3	29.9	31.7
Gravesend Bay	EW_23B1_GRAB_031B	031	B	0.1	U	U	4.8	7.8	12.6	4.6	3.3	2.5	9.1	38.4

Group	Sample ID	Station ID	Replicate	Method Detection and Reporting Limits (%)	Boulder (%) (>256 mm)	Cobbles (%) (64-256 mm)	Pebble (%) (4.0-64 mm)	Granule (%) (2.0-4.0 mm)	Total Gravel (%)	Very Coarse Sand (%) (1.0-2.0 mm)	Coarse Sand (%) (0.5-1.0 mm)	Medium Sand (%) 0.25-0.5 mm)	Fine Sand (%) 0.125-0.25 mm)	Very Fine Sand (%) (0.0625-0.125 mm)
Gravesend Bay	EW_23B1_GRAB_31C	031	C	0.1	U	U	7.6	7.9	15.5	4.2	2.8	1.8	6.8	34.4
Gravesend Bay	EW_23B1_GRAB_31D	031	D	0.1	U	U	3.3	6.3	9.6	4.2	3	2.1	8.5	41.8
Gravesend Bay	EW_23B1_GRAB_033C	033	C	0.1	U	U	2.4	8.8	11.2	7.3	4.1	3.1	5.7	32.9
Gravesend Bay	EW_23B1_GRAB_033D	033	D	0.1	U	U	2.7	8.5	11.2	7.7	3.9	2.3	2.8	13.3
Gravesend Bay	EW_23B1_GRAB_033E	033	E	0.1	U	U	4.4	9.7	14.1	8.7	4.7	2.9	3.3	12
Gravesend Bay	EW_23B1_GRAB_035A	035	A	0.1	U	U	7	8.5	15.5	5.3	3.2	2.6	5	30.3
Gravesend Bay	EW_23B1_GRAB_035B	035	B	0.1	U	U	6.4	10.9	17.3	8.6	4.6	3.5	5.3	22.6
Gravesend Bay	EW_23B1_GRAB_035C	035	C	0.1	U	U	5	10.6	15.6	7.6	4.2	2.9	4.7	23.2
Gravesend Bay	EW_23B1_GRAB_037A	037	A	0.1	U	U	6.2	6.3	12.5	3	2.5	1.9	15.3	45.5
Gravesend Bay	EW_23B1_GRAB_037B	037	B	0.1	U	U	4.6	5.8	10.4	3.2	2.3	1.5	10.5	29.4
Gravesend Bay	EW_23B1_GRAB_037C	037	C	0.1	U	U	4.6	5.2	9.8	3.2	2.3	1.8	11.3	31
Gravesend Bay	EW_23B1_GRAB_039B	039	B	0.1	U	U	13.5	15.1	28.6	13.5	10.3	6.4	21.7	10.8
Gravesend Bay	EW_23B1_GRAB_039G	039	G	0.1	U	U	23.7	9.2	32.9	6.3	4.9	5.5	26.1	14.7
Gravesend Bay	EW_23B1_GRAB_039I	039	I	0.1	U	U	11.8	10.9	22.7	12.4	10.5	6.7	25.7	13
Gravesend Bay	EW_23B1_GRAB_041B	041	B	0.1	U	U	19.2	11.6	30.8	9	9.1	7.9	20.4	1.6
Gravesend Bay	EW_23B1_GRAB_041C	041	C	0.1	U	U	25	15.3	40.3	11.8	9.7	6	17.7	9.3
Gravesend Bay	EW_23B1_GRAB_041E	041	E	0.1	U	U	24.3	10.5	34.8	11	9	6.7	22.5	8
Lower Bay	EW_23B1_GRAB_043A	043	A	0.1	U	U	3.8	6.8	10.6	12.2	12	6.5	18.9	9.7
Lower Bay	EW_23B1_GRAB_043B	043	B	0.1	U	U	26.1	9.1	35.2	7.6	5.7	3.9	17.9	9.7
Lower Bay	EW_23B1_GRAB_043C	043	C	0.1	U	U	16.2	12.9	29.1	9.9	7.5	5.8	20.9	12.1
Lower Bay	EW_23B1_GRAB_045A	045	A	0.1	U	U	14.9	12.3	27.2	15.9	15.8	11.9	11.9	8.1
Lower Bay	EW_23B1_GRAB_045B	045	B	0.1	U	U	11.4	12.5	23.9	12	11.4	9.8	18.5	12.8
Lower Bay	EW_23B1_GRAB_045D	045	D	0.1	U	U	34.1	8.3	42.4	9.6	7.5	5.6	14	11.6
Lower Bay	EW_23B1_GRAB_047A	047	A	0.1	U	U	23.7	9.1	32.8	9.5	8.7	7.8	19.8	12.2
Lower Bay	EW_23B1_GRAB_047B	047	B	0.1	U	U	37.3	11.9	49.2	10.3	8.8	7	11.2	6.8
Lower Bay	EW_23B1_GRAB_047C	047	C	0.1	U	U	11.8	9	20.8	8.9	8.5	8.8	15.4	20.1
Lower Bay	EW_23B1_GRAB_049A	049	A	0.1	U	U	25.8	0.9	26.7	4.4	4.7	11.1	37.4	6.2
Lower Bay	EW_23B1_GRAB_049B	049	B	0.1	U	U	5	2.7	7.7	1.9	1.8	12.3	63.8	7.6
Lower Bay	EW_23B1_GRAB_049C	049	C	0.1	U	U	1.8	0.5	2.3	0.5	0.6	9.3	38.5	4.5
Lower Bay	WG1836100-1-DUP[1]	049	C	0.1	U	U	3.1	0.8	3.9	0.8	0.7	10.9	60.2	5.7
Lower Bay	EW_23B1_GRAB_051G	051	G	0.1	U	U	U	U	0	U	0.1	1.1	16.3	34.3
Lower Bay	EW_23B1_GRAB_051H	051	H	0.1	U	U	U	U	0	0.3	0.5	1.2	17.4	31
Lower Bay	EW_23B1_GRAB_051I	051	I	0.1	U	U	U	0.1	0.1	0.2	0.8	1.6	26.2	37.9
Lower Bay	EW_23B1_GRAB_053A	053	A	0.1	U	U	2.9	0.7	3.6	0.5	0.6	4.5	53.7	9.4
Lower Bay	EW_23B1_GRAB_053B	053	B	0.1	U	U	U	U	0	0.2	0.4	1.2	56.5	40.9
Lower Bay	EW_23B1_GRAB_053C	053	C	0.1	U	U	1.2	1.2	2.4	0.9	2	12.6	73	7.7
Lower Bay	EW_23B1_GRAB_055A	055	A	0.1	U	U	0.6	1.7	2.3	1.2	5.4	74.5	9.1	0.9
Lower Bay	EW_23B1_GRAB_055B	055	B	0.1	U	U	5.4	2.3	7.7	2.8	5.1	47.8	32.3	3.5
Lower Bay	EW_23B1_GRAB_055C	055	C	0.1	U	U	1.1	2.3	3.4	2.2	4.9	45.3	40	3.6
Lower Bay	EW_23B1_GRAB_057A	057	A	0.1	U	U	4.2	2.7	6.9	1.4	3.6	27.5	54	5.7
Lower Bay	EW_23B1_GRAB_057B	057	B	0.1	U	U	10.8	6.2	17	3.5	7.9	23.5	41.2	5.7
Lower Bay	EW_23B1_GRAB_057C	057	C	0.1	U	U	2.5	2.2	4.7	2.1	8.4	30.4	46.4	6.7
Lower Bay	EW_23B1_GRAB_059A	059	A	0.1	U	U	8.7	7.4	16.1	8.5	15	43	15.3	1.2
Lower Bay	EW_23B1_GRAB_059I	059	I	0.1	U	U	7.9	6.7	14.6	7	14.6	48.3	12.7	1.6
Lower Bay	EW_23B1_GRAB_059J	059	J	0.1	U	U	9.5	6.7	16.2	7.4	13.7	44.4	15.9	1.5
Lower Bay	EW_23B1_GRAB_061A	061	A	0.1	U	U	2.1	1.3	3.4	2	12.2	56.6	24.2	1.1
Lower Bay	WG1840300-1-DUP[1]	061	A	0.1	U	U	0.8	1.6	2.4	2.2	12.4	61	19.3	1
Lower Bay	EW_23B1_GRAB_061B	061	B	0.1	U	U	0.5	0.9	1.4	2.2	15.4	68.1	11.7	0.2
Lower Bay	WG1840936-1-DUP[1]	061	B	0.1	U	U	0.2	1.2	1.4	1.7	11.1	51.7	32.6	0.3

Group	Sample ID	Station ID	Replicate	Method Detection and Reporting Limits (%)	Boulder (%) (>256 mm)	Cobbles (%) (64-256 mm)	Pebble (%) (4.0-64 mm)	Granule (%) (2.0-4.0 mm)	Total Gravel (%)	Very Coarse Sand (%) (1.0-2.0 mm)	Coarse Sand (%) (0.5-1.0 mm)	Medium Sand (%) 0.25-0.5 mm)	Fine Sand (%) 0.125-0.25 mm)	Very Fine Sand (%) (0.0625-0.125 mm)
Lower Bay	EW_23B1_GRAB_061D	061	D	0.1	U	U	1.1	1	2.1	1.9	5.6	54.3	31.9	2.9
Lower Bay	EW_23B1_GRAB_063B	063	B	0.1	U	U	11	4.1	15.1	3	10.5	37.2	32	1.4
Lower Bay	EW_23B1_GRAB_063D	063	D	0.1	U	U	1	0.7	1.7	3.2	15.2	54.7	21.3	1.1
Lower Bay	EW_23B1_GRAB_063H	063	H	0.1	U	U	0.2	1.2	1.4	2.4	13.3	46	34.4	1.2
Lower Bay	EW_23B1_GRAB_065E	065	E	0.1	U	U	10.6	6.1	16.7	8.4	29.4	32.2	10.7	2
Lower Bay	EW_23B1_GRAB_065F	065	F	0.1	U	U	15.6	7.9	23.5	7.4	17.4	28.8	17.4	4.3
Lower Bay	EW_23B1_GRAB_065G	065	G	0.1	U	U	17.6	7.9	25.5	7.5	17.6	30.8	14.3	3.1
Offshore	EW_23B1_GRAB_067A	067	A	0.1	U	U	5	2.3	7.3	5.3	5.4	24.9	56.3	0.5
Offshore	EW_23B1_GRAB_067B	067	B	0.1	U	U	2.1	0.8	2.9	2.6	4.8	29	58.5	0.4
Offshore	EW_23B1_GRAB_067C	067	C	0.1	U	U	0.9	1.2	2.1	1	2.2	37.4	56.9	0.2
Offshore	EW_23B1_GRAB_069A	069	A	0.1	U	U	1.4	2.2	3.6	2.6	9.6	41.8	41.7	0.4
Offshore	EW_23B1_GRAB_069B	069	B	0.1	U	U	2.1	1.7	3.8	2.8	10.4	41.6	40.8	0.4
Offshore	EW_23B1_GRAB_069D	069	D	0.1	U	U	2.2	4.3	6.5	8.4	18	38	28.1	0.2
Offshore	EW_23B1_GRAB_071A	071	A	0.1	U	U	2.8	4	6.8	10.3	13.9	21.4	46.3	0.4
Offshore	EW_23B1_GRAB_071E	071	E	0.1	U	U	7.1	9.9	17	20.6	15.9	14.8	29.6	0.9
Offshore	EW_23B1_GRAB_071H	071	H	0.1	U	U	10.8	2.4	13.2	2.2	3.6	18.4	59.7	1.6
Offshore	EW_23B1_GRAB_073A	073	A	0.1	U	U	0.2	2	2.2	14.7	50.1	24.5	7.5	0.1
Offshore	EW_23B1_GRAB_073B	073	B	0.1	U	U	3.7	5.4	9.1	20.2	39.5	21.3	8.8	0.2
Offshore	EW_23B1_GRAB_073C	073	C	0.1	U	U	5.9	8.3	14.2	20.4	34.4	18.2	11.5	0.4
Offshore	EW_23B1_GRAB_075A	075	A	0.1	U	U	0.2	0.6	0.8	11	48.5	30.9	7.8	0.1
Offshore	EW_23B1_GRAB_075B	075	B	0.1	U	U	3.4	4	7.4	42.4	41.5	6.8	1.1	U
Offshore	EW_23B1_GRAB_075C	075	C	0.1	U	U	3.5	2.3	5.8	18.9	45.5	23.3	5.3	0.3
Offshore	EW_23B1_GRAB_077A	077	A	0.1	U	U	0.8	1.3	2.1	11.4	60.3	23.3	1.8	0.2
Offshore	EW_23B1_GRAB_077B	077	B	0.1	U	U	0.5	0.5	1	6.8	61.5	29	0.7	U
Offshore	EW_23B1_GRAB_077C	077	C	0.1	U	U	0.3	1.1	1.4	10.1	58.4	22.6	6.5	0.2
Offshore	EW_23B1_GRAB_079A	079	A	0.1	U	U	0.1	1	1.1	0.9	29.2	55.9	11.3	0.5
Offshore	EW_23B1_GRAB_079C	079	C	0.1	U	U	0.1	0.3	0.4	0.6	32.2	53.2	12.4	0.3
Offshore	EW_23B1_GRAB_079D	079	D	0.1	U	U	0.6	0.7	1.3	0.7	33.3	59.6	3.4	0.4
Offshore	EW_23B1_GRAB_081A	081	A	0.1	U	U	U	0.1	0.1	0.2	0.3	2.7	89.3	5.9
Offshore	EW_23B1_GRAB_081B	081	B	0.1	U	U	1.5	U	1.5	0.1	0.5	2.2	87.1	7.3
Offshore	EW_23B1_GRAB_081C	081	C	0.1	U	U	0.4	0.2	0.6	0.2	0.4	2.8	82.9	5.7
Offshore	WG1845985-1-DUP[1]	081	C	0.1	U	U	0.3	1.3	1.6	0.2	0.3	4.4	84	6.5
Offshore	EW_23B1_GRAB_083A	083	A	0.1	U	U	0.1	0.5	0.6	0.4	0.6	5.4	75.8	13.3
Offshore	EW_23B1_GRAB_083B	083	B	0.1	U	U	0.4	0.2	0.6	0.3	0.4	1.7	77.8	15
Offshore	EW_23B1_GRAB_083C	083	C	0.1	U	U	0.5	0.3	0.8	0.3	0.3	3.8	70.2	9.9
Offshore	EW_23B1_GRAB_085A	085	A	0.1	U	U	0.5	0.8	1.3	0.3	0.4	4.2	80.4	10.2
Offshore	EW_23B1_GRAB_085B	085	B	0.1	U	U	0.2	0.2	0.4	0.2	0.3	3.1	68.1	12
Offshore	EW_23B1_GRAB_085C	085	C	0.1	U	U	0.3	0.4	0.7	0.3	0.7	5.9	76.7	12.7
Offshore	EW_23B1_GRAB_087A	087	A	0.1	U	U	0.6	0.7	1.3	0.2	0.7	8.4	72.9	11.9
Offshore	EW_23B1_GRAB_087B	087	B	0.1	U	U	1.3	0.6	1.9	0.4	1.1	6.8	77.5	10.9
Offshore	EW_23B1_GRAB_087C	087	C	0.1	U	U	0.5	0.4	0.9	0.2	0.8	4.6	82.4	9.1
Offshore	EW_23B1_GRAB_089B	089	B	0.1	U	U	0.3	0.4	0.7	0.2	1	5.8	62.2	6.5
Offshore	EW_23B1_GRAB_089D	089	D	0.1	U	U	0.5	0.2	0.7	0.3	1.1	5.1	80.8	9.9
Offshore	EW_23B1_GRAB_089E	089	E	0.1	U	U	0.8	1.1	1.9	0.3	1.2	5.6	63.9	8
Offshore	EW_23B1_GRAB_091A	091	A	0.1	U	U	1.1	1.4	2.5	1.1	3.2	9.2	68	14.1
Offshore	EW_23B1_GRAB_091B	091	B	0.1	U	U	1.2	1.2	2.4	1	2.5	5.7	50.3	10.8
Offshore	EW_23B1_GRAB_091E	091	E	0.1	U	U	1.1	0.9	2	1	2.8	3.9	50.9	9

Sample ID	Station ID	Replicate	Total Sand (%)	Silt (%) (3.9-62.5 um)	Clay (%) (<3.9 um)	Total Fines (%)
EW_23B1_GRAB_002C	002	C	11.8	55.5	31.9	87.4
EW_23B1_GRAB_002D	002	D	8.9	67.7	21.2	88.9
EW_23B1_GRAB_002E	002	E	7	56.3	35.9	92.2
EW_23B1_GRAB_003A	003	A	26.3	55	14.8	69.8
EW_23B1_GRAB_003B	003	B	29.7	52.6	12.4	65
EW_23B1_GRAB_003C	003	C	22.1	57	16.9	73.9
EW_23B1_GRAB_005A	005	A	29.3	56.6	12.8	69.4
EW_23B1_GRAB_005G	005	G	27.2	60.3	8.7	69
EW_23B1_GRAB_005H	005	H	34.6	49.3	9.6	58.9
EW_23B1_GRAB_007C	007	C	37.3	43.6	14.3	57.9
EW_23B1_GRAB_007D	007	D	36.7	48	12.1	60.1
EW_23B1_GRAB_007E	007	E	23.4	64.8	11.2	76
EW_23B1_GRAB_009A	009	A	25.4	66.5	6.1	72.6
WG1826090-1-DUP[1]	009	A	35.7	58.6	5.4	64
EW_23B1_GRAB_009B	009	B	28.7	56.4	14.5	70.9
EW_23B1_GRAB_009C	009	C	23.1	70.1	5.8	75.9
EW_23B1_GRAB_011A	011	A	30.6	58.9	3.5	62.4
EW_23B1_GRAB_011B	011	B	35.2	46	2.4	48.4
EW_23B1_GRAB_011C	011	C	35.9	47.5	3.2	50.7
EW_23B1_GRAB_013A	013	A	60.5	34.6	2.6	37.2
EW_23B1_GRAB_013B	013	B	57.1	37	1	38
EW_23B1_GRAB_013C	013	C	65.6	29.3	2.3	31.6
WG1827679-1-DUP[1]	013	C	71.6	25.5	0.6	26.1
EW_23B1_GRAB_015A	015	A	64.2	26.4	0.9	27.3
EW_23B1_GRAB_015C	015	C	62.9	29.2	0.9	30.1
EW_23B1_GRAB_015E	015	E	62.8	29.5	1	30.5
EW_23B1_GRAB_017A	017	A	71.6	14.9	1.6	16.5
EW_23B1_GRAB_017C	017	C	60.7	6.8	0.7	7.5
EW_23B1_GRAB_017D	017	D	56.7	31.9	3.4	35.3
EW_23B1_GRAB_019A	019	A	65.4	23.6	2.5	26.1
EW_23B1_GRAB_019B	019	B	55.4	30.8	3.3	34.1
EW_23B1_GRAB_019C	019	C	71	12.4	0.8	13.2
EW_23B1_GRAB_021C	021	C	69.2	13	0.9	13.9
EW_23B1_GRAB_021D	021	D	74.8	10.8	0.7	11.5
EW_23B1_GRAB_021I	021	I	66.1	24	1.6	25.6
EW_23B1_GRAB_023A	023	A	75.3	7.5	0.5	8
EW_23B1_GRAB_023C	023	C	56.6	38.3	2.6	40.9
EW_23B1_GRAB_023I	023	I	77.7	9.6	0.5	10.1
EW_23B1_GRAB_025C	025	C	67.9	21	1	22
EW_23B1_GRAB_025E	025	E	69	21.1	1.4	22.5
EW_23B1_GRAB_025F	025	F	77.1	6.8	0.4	7.2
EW_23B1_GRAB_027A	027	A	59.2	21.8	2.3	24.1
EW_23B1_GRAB_027D	027	D	73.8	3.8	0.4	4.2
WG1832244-1-DUP[1]	027	D	78.2	5.4	0.5	5.9
EW_23B1_GRAB_027E	027	E	73.6	4.7	0.3	5
EW_23B1_GRAB_029C	029	C	58.5	12.1	0.9	13
EW_23B1_GRAB_029D	029	D	66	24.5	1.7	26.2
EW_23B1_GRAB_029F	029	F	70.8	19.2	1.7	20.9
EW_23B1_GRAB_031B	031	B	57.9	27.1	2.4	29.5

Sample ID	Station ID	Replicate	Total Sand (%)	Silt (%) (3.9-62.5 um)	Clay (%) (<3.9 um)	Total Fines (%)
EW_23B1_GRAB_31C	031	C	50	31.7	2.8	34.5
EW_23B1_GRAB_31D	031	D	59.6	28.8	2	30.8
EW_23B1_GRAB_033C	033	C	53.1	32.8	2.9	35.7
EW_23B1_GRAB_033D	033	D	30	50.2	8.6	58.8
EW_23B1_GRAB_033E	033	E	31.6	48.1	6.2	54.3
EW_23B1_GRAB_035A	035	A	46.4	34.3	3.8	38.1
EW_23B1_GRAB_035B	035	B	44.6	35.6	2.5	38.1
EW_23B1_GRAB_035C	035	C	42.6	41.1	0.7	41.8
EW_23B1_GRAB_037A	037	A	68.2	18.6	0.7	19.3
EW_23B1_GRAB_037B	037	B	46.9	40.6	2.1	42.7
EW_23B1_GRAB_037C	037	C	49.6	38.6	2	40.6
EW_23B1_GRAB_039B	039	B	62.7	7.6	1.1	8.7
EW_23B1_GRAB_039G	039	G	57.5	9.3	0.3	9.6
EW_23B1_GRAB_039I	039	I	68.3	8.4	0.6	9
EW_23B1_GRAB_041B	041	B	48	20.3	0.9	21.2
EW_23B1_GRAB_041C	041	C	54.5	4.9	0.3	5.2
EW_23B1_GRAB_041E	041	E	57.2	7.6	0.4	8
EW_23B1_GRAB_043A	043	A	59.3	24.9	5.2	30.1
EW_23B1_GRAB_043B	043	B	44.8	17.3	2.7	20
EW_23B1_GRAB_043C	043	C	56.2	12.7	2	14.7
EW_23B1_GRAB_045A	045	A	63.6	7.8	1.4	9.2
EW_23B1_GRAB_045B	045	B	64.5	10	1.6	11.6
EW_23B1_GRAB_045D	045	D	48.3	8.5	0.8	9.3
EW_23B1_GRAB_047A	047	A	58	8.6	0.6	9.2
EW_23B1_GRAB_047B	047	B	44.1	6.2	0.5	6.7
EW_23B1_GRAB_047C	047	C	61.7	16	1.5	17.5
EW_23B1_GRAB_049A	049	A	63.8	8.4	1.1	9.5
EW_23B1_GRAB_049B	049	B	87.4	4.3	0.6	4.9
EW_23B1_GRAB_049C	049	C	53.4	41.2	3.1	44.3
WG1836100-1-DUP[1]	049	C	78.3	16.2	1.6	17.8
EW_23B1_GRAB_051G	051	G	51.8	37.3	10.9	48.2
EW_23B1_GRAB_051H	051	H	50.4	44.6	5	49.6
EW_23B1_GRAB_051I	051	I	66.7	30.5	2.7	33.2
EW_23B1_GRAB_053A	053	A	68.7	26.1	1.6	27.7
EW_23B1_GRAB_053B	053	B	99.2	0.6	0.2	0.8
EW_23B1_GRAB_053C	053	C	96.2	1.3	0.1	1.4
EW_23B1_GRAB_055A	055	A	91.1	6.3	0.3	6.6
EW_23B1_GRAB_055B	055	B	91.5	0.7	0.1	0.8
EW_23B1_GRAB_055C	055	C	96	0.5	0.1	0.6
EW_23B1_GRAB_057A	057	A	92.2	0.8	0.1	0.9
EW_23B1_GRAB_057B	057	B	81.8	1.1	0.1	1.2
EW_23B1_GRAB_057C	057	C	94	1.2	0.1	1.3
EW_23B1_GRAB_059A	059	A	83	0.8	0.1	0.9
EW_23B1_GRAB_059I	059	I	84.2	1.1	0.1	1.2
EW_23B1_GRAB_059J	059	J	82.9	0.8	0.1	0.9
EW_23B1_GRAB_061A	061	A	96.1	0.5	U	0.5
WG1840300-1-DUP[1]	061	A	95.9	1.6	0.1	1.7
EW_23B1_GRAB_061B	061	B	97.6	1	U	1
WG1840936-1-DUP[1]	061	B	97.4	1.2	U	1.2

Sample ID	Station ID	Replicate	Total Sand (%)	Silt (%) (3.9-62.5 um)	Clay (%) (<3.9 um)	Total Fines (%)
EW_23B1_GRAB_061D	061	D	96.6	1.3	U	1.3
EW_23B1_GRAB_063B	063	B	84.1	0.8	U	0.8
EW_23B1_GRAB_063D	063	D	95.5	2.7	0.1	2.8
EW_23B1_GRAB_063H	063	H	97.3	1.2	0.1	1.3
EW_23B1_GRAB_065E	065	E	82.7	0.6	U	0.6
EW_23B1_GRAB_065F	065	F	75.3	1.1	0.1	1.2
EW_23B1_GRAB_065G	065	G	73.3	1.1	0.1	1.2
EW_23B1_GRAB_067A	067	A	92.4	0.3	U	0.3
EW_23B1_GRAB_067B	067	B	95.3	1.7	0.1	1.8
EW_23B1_GRAB_067C	067	C	97.7	0.2	U	0.2
EW_23B1_GRAB_069A	069	A	96.1	0.3	U	0.3
EW_23B1_GRAB_069B	069	B	96	0.2	U	0.2
EW_23B1_GRAB_069D	069	D	92.7	0.8	U	0.8
EW_23B1_GRAB_071A	071	A	92.3	0.9	U	0.9
EW_23B1_GRAB_071E	071	E	81.8	1.1	0.1	1.2
EW_23B1_GRAB_071H	071	H	85.5	1.2	0.1	1.3
EW_23B1_GRAB_073A	073	A	96.9	0.8	0.1	0.9
EW_23B1_GRAB_073B	073	B	90	0.8	0.1	0.9
EW_23B1_GRAB_073C	073	C	84.9	0.8	0.1	0.9
EW_23B1_GRAB_075A	075	A	98.3	0.8	0.1	0.9
EW_23B1_GRAB_075B	075	B	91.8	0.7	0.1	0.8
EW_23B1_GRAB_075C	075	C	93.3	0.8	0.1	0.9
EW_23B1_GRAB_077A	077	A	97	0.8	0.1	0.9
EW_23B1_GRAB_077B	077	B	98	0.9	0.1	1
EW_23B1_GRAB_077C	077	C	97.8	0.7	0.1	0.8
EW_23B1_GRAB_079A	079	A	97.8	0.9	0.2	1.1
EW_23B1_GRAB_079C	079	C	98.7	0.7	0.2	0.9
EW_23B1_GRAB_079D	079	D	97.4	1	0.3	1.3
EW_23B1_GRAB_081A	081	A	98.4	1.2	0.3	1.5
EW_23B1_GRAB_081B	081	B	97.2	1.2	0.1	1.3
EW_23B1_GRAB_081C	081	C	92	6.7	0.7	7.4
WG1845985-1-DUP[1]	081	C	95.4	2.8	0.2	3
EW_23B1_GRAB_083A	083	A	95.5	3.4	0.5	3.9
EW_23B1_GRAB_083B	083	B	95.2	3.9	0.3	4.2
EW_23B1_GRAB_083C	083	C	84.5	12.7	2	14.7
EW_23B1_GRAB_085A	085	A	95.5	3	0.2	3.2
EW_23B1_GRAB_085B	085	B	83.7	12.4	3.5	15.9
EW_23B1_GRAB_085C	085	C	96.3	2.5	0.5	3
EW_23B1_GRAB_087A	087	A	94.1	4	0.6	4.6
EW_23B1_GRAB_087B	087	B	96.7	1.2	0.2	1.4
EW_23B1_GRAB_087C	087	C	97.1	1.7	0.3	2
EW_23B1_GRAB_089B	089	B	75.7	20.7	2.9	23.6
EW_23B1_GRAB_089D	089	D	97.2	1.9	0.2	2.1
EW_23B1_GRAB_089E	089	E	79	17.7	1.4	19.1
EW_23B1_GRAB_091A	091	A	95.6	1.7	0.2	1.9
EW_23B1_GRAB_091B	091	B	70.3	23.5	3.8	27.3
EW_23B1_GRAB_091E	091	E	67.6	24.8	5.6	30.4

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Arsenic, Total		21.5			21.5	
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Cadmium, Total		1.02			1.02	
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Copper, Total		127			127	
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Mercury, Total		1.24			1.24	
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	2-Chloronaphthalene	16			U	0.002915	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	2-Methylnaphthalene	68.3				0.0683	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Acenaphthene	36.3				0.0363	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Acenaphthylene	132				0.132	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Anthracene	196				0.196	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Benz(a)anthracene	503				0.503	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Benzo(a)pyrene	506				0.506	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Benzo(b)fluoranthene	422				0.422	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Benzo(g,h,i)perylene	334				0.334	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Benzo(k)fluoranthene	357				0.357	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Chrysene	436				0.436	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Dibenz(a,h)anthracene	75				0.075	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Fluoranthene	532				0.532	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Fluorene	33.5				0.0335	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Indeno(1,2,3-cd)pyrene	245				0.245	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Naphthalene	110				0.11	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Phenanthrene	267				0.267	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Pyrene	679				0.679	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Lead, Total		154			154	
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Aroclor 1016	29.6			U	0.00545	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Aroclor 1221	29.6			U	0.0073	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Aroclor 1232	29.6			U	0.007	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Aroclor 1242	29.6			U	0.005	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Aroclor 1248	29.6			U	0.0063	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Aroclor 1254	129				0.129	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Aroclor 1260	36.1				0.0361	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Aroclor 1262	29.6			U	0.0057	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Aroclor 1268	29.6			U	0.004935	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	PCBs, Total	165				0.165	
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	2,4'-DDD	1.97			U	0.000985	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	2,4'-DDE	1.97			U	0.000985	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	2,4'-DDT	1.97			U	0.000985	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	4,4'-DDD	5.56				0.00556	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	4,4'-DDE	4.49				0.00449	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	4,4'-DDT	4.27				0.00427	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Chlordane	99.1			U	0.04955	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	alpha-Chlordane	1.97			U	0.000985	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Dieldrin	1.97			U	0.000985	
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Mirex	1.97			U	0.000985	
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Oxychlordane	3.95			U	0.001975	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	gamma-Chlordane	1.97			U	0.000985	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_002	002	1	Solids, Total			23.9			
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Arsenic, Total		8.51			8.51	
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Cadmium, Total		0.481		J	0.481	
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Copper, Total		53.9			53.9	
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Mercury, Total		0.71			0.71	
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	2-Chloronaphthalene	10.1			U	0.001845	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	2-Methylnaphthalene	69.5				0.0695	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Acenaphthene	37.8				0.0378	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Acenaphthylene	118				0.118	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Anthracene	181				0.181	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Benz(a)anthracene	507				0.507	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Benzo(a)pyrene	574				0.574	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Benzo(b)fluoranthene	451				0.451	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Benzo(g,h,i)perylene	401				0.401	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Benzo(k)fluoranthene	483				0.483	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Chrysene	521				0.521	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Dibenz(a,h)anthracene	100				0.1	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Fluoranthene	605				0.605	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Fluorene	41				0.041	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Indeno(1,2,3-cd)pyrene	307				0.307	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Naphthalene	110				0.11	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Phenanthrene	292				0.292	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Pyrene	790				0.79	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Lead, Total		78.7			78.7	
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Aroclor 1016	20.1			U	0.003695	Total PCBs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Aroclor 1221	20.1			U	0.004955	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Aroclor 1232	20.1			U	0.00474	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Aroclor 1242	20.1			U	0.0034	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Aroclor 1248	20.1			U	0.00426	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Aroclor 1254	42.5				0.0425	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Aroclor 1260	12.2			J	0.0122	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Aroclor 1262	20.1			U	0.00388	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Aroclor 1268	20.1			U	0.003345	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	PCBs, Total	54.7			J	0.0547	
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	2,4'-DDD	1.34			U	0.00067	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	2,4'-DDE	1.34			U	0.00067	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	2,4'-DDT	1.34			U	0.00067	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	4,4'-DDD	1.34			U	0.00067	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	4,4'-DDE	2.64				0.00264	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	4,4'-DDT	2.26				0.00226	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Chlordane	67.2			U	0.0336	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	alpha-Chlordane	1.34			U	0.00067	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Dieldrin	1.34			U	0.00067	
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Mirex	1.34			U	0.00067	
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Oxychlordane	2.68			U	0.00134	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	gamma-Chlordane	1.34			U	0.00067	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_005	005	1	Solids, Total			36.9			
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Arsenic, Total		8.78			8.78	
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Cadmium, Total		0.448		J	0.448	
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Copper, Total		45.3			45.3	
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Mercury, Total		0.625			0.625	
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	2-Chloronaphthalene	9.5			U	0.001735	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	2-Methylnaphthalene	54.2				0.0542	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Acenaphthene	31.1				0.0311	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Acenaphthylene	105				0.105	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Anthracene	157				0.157	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Benz(a)anthracene	443				0.443	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Benzo(a)pyrene	500				0.5	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Benzo(b)fluoranthene	406				0.406	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Benzo(g,h,i)perylene	337				0.337	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Benzo(k)fluoranthene	338				0.338	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Chrysene	400				0.4	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Dibenz(a,h)anthracene	76.2				0.0762	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Fluoranthene	515				0.515	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Fluorene	33.5				0.0335	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Indeno(1,2,3-cd)pyrene	250				0.25	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Naphthalene	84.8				0.0848	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Phenanthrene	236				0.236	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Pyrene	662				0.662	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Lead, Total		65.9			65.9	
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Aroclor 1016	18.3			U	0.00336	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Aroclor 1221	18.3			U	0.004505	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Aroclor 1232	18.3			U	0.00431	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Aroclor 1242	18.3			U	0.003095	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Aroclor 1248	18.3			U	0.003875	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Aroclor 1254	56.5				0.0565	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Aroclor 1260	16			J	0.016	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Aroclor 1262	18.3			U	0.00353	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Aroclor 1268	18.3			U	0.003045	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	PCBs, Total	72.5			J	0.0725	
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	2,4'-DDD	1.22			U	0.00061	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	2,4'-DDE	1.22			U	0.00061	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	2,4'-DDT	1.22			U	0.00061	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	4,4'-DDD	2.08				0.00208	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	4,4'-DDE	2.49				0.00249	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	4,4'-DDT	1.22			U	0.00061	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Chlordane	61.2			U	0.0306	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	alpha-Chlordane	1.22			U	0.00061	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Dieldrin	1.22			U	0.00061	
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Mirex	1.22			U	0.00061	
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Oxychlordane	2.44			U	0.00122	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	gamma-Chlordane	1.22			U	0.00061	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_009	009	1	Solids, Total			40.6			
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Arsenic, Total		6.58			6.58	
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Cadmium, Total		0.266		J	0.266	

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Copper, Total		27			27	
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Mercury, Total		0.355			0.355	
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	2-Chloronaphthalene	7.09			U	0.001295	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	2-Methylnaphthalene	29.2				0.0292	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Acenaphthene	18.1				0.0181	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Acenaphthylene	66.4				0.0664	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Anthracene	104				0.104	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Benz(a)anthracene	209				0.209	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Benzo(a)pyrene	269				0.269	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Benzo(b)fluoranthene	178				0.178	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Benzo(g,h,i)perylene	171				0.171	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Benzo(k)fluoranthene	202				0.202	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Chrysene	223				0.223	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Dibenz(a,h)anthracene	40.1				0.0401	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Fluoranthene	294				0.294	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Fluorene	21.9				0.0219	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Indeno(1,2,3-cd)pyrene	137				0.137	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Naphthalene	47.7				0.0477	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Phenanthrene	128				0.128	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Pyrene	351				0.351	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Lead, Total		41.4			41.4	
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Aroclor 1016	13.4			U	0.002475	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Aroclor 1221	13.4			U	0.003315	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Aroclor 1232	13.4			U	0.003175	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Aroclor 1242	13.4			U	0.002275	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Aroclor 1248	13.4			U	0.00285	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Aroclor 1254	59.5				0.0595	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Aroclor 1260	17.1				0.0171	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Aroclor 1262	13.4			U	0.0026	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Aroclor 1268	13.4			U	0.00224	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	PCBs, Total	76.6				0.0766	
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	2,4'-DDD	0.896			U	0.000448	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	2,4'-DDE	0.896			U	0.000448	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	2,4'-DDT	0.896			U	0.000448	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	4,4'-DDD	1.27				0.00127	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	4,4'-DDE	2.77				0.00277	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	4,4'-DDT	0.896			U	0.000448	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Chlordane	45			U	0.0225	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	alpha-Chlordane	0.896			U	0.000448	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Dieldrin	0.896			U	0.000448	
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Mirex	0.896			U	0.000448	
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Oxychlordane	1.79			U	0.000895	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	gamma-Chlordane	0.896			U	0.000448	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_013	013	1	Solids, Total			54.9			
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Arsenic, Total		4.88			4.88	
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Cadmium, Total		0.293		J	0.293	
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Copper, Total		24			24	
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Mercury, Total		0.394			0.394	
Verrazano Narrows	EW_23B1_CHEM_017	017	1	2-Chloronaphthalene	7.06			U	0.00129	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	2-Methylnaphthalene	31.5				0.0315	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Acenaphthene	19				0.019	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Acenaphthylene	60.6				0.0606	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Anthracene	90.2				0.0902	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Benz(a)anthracene	191				0.191	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Benzo(a)pyrene	261				0.261	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Benzo(b)fluoranthene	166				0.166	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Benzo(g,h,i)perylene	157				0.157	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Benzo(k)fluoranthene	166				0.166	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Chrysene	199				0.199	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Dibenz(a,h)anthracene	34.5				0.0345	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Fluoranthene	224				0.224	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Fluorene	19				0.019	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Indeno(1,2,3-cd)pyrene	122				0.122	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Naphthalene	47.2				0.0472	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Phenanthrene	112				0.112	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Pyrene	307				0.307	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Lead, Total		31.9			31.9	
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Aroclor 1016	13.1			U	0.002405	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Aroclor 1221	13.1			U	0.003225	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Aroclor 1232	13.1			U	0.003085	Total PCBs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Aroclor 1242	13.1			U	0.002215	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Aroclor 1248	13.1			U	0.002775	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Aroclor 1254	38.9				0.0389	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Aroclor 1260	12.8			J	0.0128	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Aroclor 1262	13.1			U	0.00253	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Aroclor 1268	13.1			U	0.00218	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_017	017	1	PCBs, Total	51.7			J	0.0517	
Verrazano Narrows	EW_23B1_CHEM_017	017	1	2,4'-DDD	0.872			U	0.000436	Total DDx
Verrazano Narrows	EW_23B1_CHEM_017	017	1	2,4'-DDE	0.872			U	0.000436	Total DDx
Verrazano Narrows	EW_23B1_CHEM_017	017	1	2,4'-DDT	0.872			U	0.000436	Total DDx
Verrazano Narrows	EW_23B1_CHEM_017	017	1	4,4'-DDD	1.02				0.00102	Total DDx
Verrazano Narrows	EW_23B1_CHEM_017	017	1	4,4'-DDE	1.64				0.00164	Total DDx
Verrazano Narrows	EW_23B1_CHEM_017	017	1	4,4'-DDT	0.872			U	0.000436	Total DDx
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Chlordane	43.8			U	0.0219	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_017	017	1	alpha-Chlordane	0.872			U	0.000436	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Dieldrin	0.872			U	0.000436	
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Mirex	0.872			U	0.000436	
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Oxychlordane	1.74			U	0.00087	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_017	017	1	gamma-Chlordane	0.872			U	0.000436	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_017	017	1	Solids, Total			54.4			
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Arsenic, Total		3.66			3.66	
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Cadmium, Total		0.123		J	0.123	
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Copper, Total		5.7			5.7	
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Mercury, Total		0.078			0.078	
Verrazano Narrows	EW_23B1_CHEM_021	021	1	2-Chloronaphthalene	5.28			U	0.000965	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	2-Methylnaphthalene	8.71				0.00871	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Acenaphthene	13.2				0.0132	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Acenaphthylene	34.1				0.0341	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Anthracene	178				0.178	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Benz(a)anthracene	599				0.599	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Benzo(a)pyrene	513				0.513	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Benzo(b)fluoranthene	419				0.419	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Benzo(g,h,i)perylene	315				0.315	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Benzo(k)fluoranthene	388				0.388	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Chrysene	450				0.45	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Dibenz(a,h)anthracene	76				0.076	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Fluoranthene	871				0.871	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Fluorene	26.9				0.0269	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Indeno(1,2,3-cd)pyrene	257				0.257	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Naphthalene	29.2				0.0292	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Phenanthrene	369				0.369	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Pyrene	869				0.869	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Lead, Total		31.7			31.7	
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Aroclor 1016	9.84			U	0.00181	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Aroclor 1221	9.84			U	0.002425	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Aroclor 1232	9.84			U	0.00232	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Aroclor 1242	9.84			U	0.001665	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Aroclor 1248	9.84			U	0.002085	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Aroclor 1254	9.37			J	0.00937	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Aroclor 1260	9.84			U	0.002085	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Aroclor 1262	9.84			U	0.0019	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Aroclor 1268	9.84			U	0.00164	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_021	021	1	PCBs, Total	9.37			J	0.00937	
Verrazano Narrows	EW_23B1_CHEM_021	021	1	2,4'-DDD	0.656			U	0.000328	Total DDx
Verrazano Narrows	EW_23B1_CHEM_021	021	1	2,4'-DDE	0.656			U	0.000328	Total DDx
Verrazano Narrows	EW_23B1_CHEM_021	021	1	2,4'-DDT	0.656			U	0.000328	Total DDx
Verrazano Narrows	EW_23B1_CHEM_021	021	1	4,4'-DDD	0.656			U	0.000328	Total DDx
Verrazano Narrows	EW_23B1_CHEM_021	021	1	4,4'-DDE	0.656			U	0.000328	Total DDx
Verrazano Narrows	EW_23B1_CHEM_021	021	1	4,4'-DDT	0.656			U	0.000328	Total DDx
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Chlordane	32.9			U	0.01645	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_021	021	1	alpha-Chlordane	0.656			U	0.000328	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Dieldrin	0.656			U	0.000328	
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Mirex	0.656			U	0.000328	
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Oxychlordane	1.31			U	0.000655	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_021	021	1	gamma-Chlordane	0.656			U	0.000328	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_021	021	1	Solids, Total			73.6			
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Arsenic, Total		3.74			3.74	
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Cadmium, Total		0.134		J	0.134	
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Copper, Total		8.43			8.43	
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Mercury, Total		0.142			0.142	

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Verrazano Narrows	EW_23B1_CHEM_025	025	1	2-Chloronaphthalene	5.2			U	0.00095	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	2-Methylnaphthalene	5.78				0.00578	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Acenaphthene	4.83			J	0.00483	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Acenaphthylene	15.7				0.0157	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Anthracene	26.9				0.0269	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Benz(a)anthracene	70.2				0.0702	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Benzo(a)pyrene	93.5				0.0935	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Benzo(b)fluoranthene	67.2				0.0672	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Benzo(g,h,i)perylene	60.2				0.0602	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Benzo(k)fluoranthene	57.5				0.0575	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Chrysene	72.3				0.0723	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Dibenz(a,h)anthracene	13.1				0.0131	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Fluoranthene	104				0.104	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Fluorene	4.74			J	0.00474	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Indeno(1,2,3-cd)pyrene	48				0.048	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Naphthalene	11.6				0.0116	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Phenanthrene	36.6				0.0366	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Pyrene	121				0.121	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Lead, Total		13.4			13.4	
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Aroclor 1016	9.94			U	0.00183	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Aroclor 1221	9.94			U	0.00245	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Aroclor 1232	9.94			U	0.002345	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Aroclor 1242	9.94			U	0.001685	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Aroclor 1248	9.94			U	0.00211	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Aroclor 1254	29.7				0.0297	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Aroclor 1260	9.94			U	0.00211	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Aroclor 1262	9.94			U	0.00192	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Aroclor 1268	9.94			U	0.001655	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_025	025	1	PCBs, Total	29.7				0.0297	
Verrazano Narrows	EW_23B1_CHEM_025	025	1	2,4'-DDD	0.132			U	0.000066	Total DDx
Verrazano Narrows	EW_23B1_CHEM_025	025	1	2,4'-DDE	0.132			U	0.000066	Total DDx
Verrazano Narrows	EW_23B1_CHEM_025	025	1	2,4'-DDT	0.132			U	0.000066	Total DDx
Verrazano Narrows	EW_23B1_CHEM_025	025	1	4,4'-DDD	0.635				0.000635	Total DDx
Verrazano Narrows	EW_23B1_CHEM_025	025	1	4,4'-DDE	0.487				0.000487	Total DDx
Verrazano Narrows	EW_23B1_CHEM_025	025	1	4,4'-DDT	0.132			U	0.000066	Total DDx
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Chlordane	6.66			U	0.00333	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_025	025	1	alpha-Chlordane	0.132			U	0.000066	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Dieldrin	0.132			U	0.000066	
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Mirex	0.132			U	0.000066	
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Oxychlordane	0.265			U	0.0001325	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_025	025	1	gamma-Chlordane	0.132			U	0.000066	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_025	025	1	Solids, Total			75.2			
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Arsenic, Total		4.99			4.99	
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Cadmium, Total		0.312		J	0.312	
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Copper, Total		24.5			24.5	
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Mercury, Total		0.307			0.307	
Verrazano Narrows	EW_23B1_CHEM_029	029	1	2-Chloronaphthalene	7.38			U	0.001345	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	2-Methylnaphthalene	26.8				0.0268	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Acenaphthene	22				0.022	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Acenaphthylene	73				0.073	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Anthracene	119				0.119	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Benz(a)anthracene	320				0.32	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Benzo(a)pyrene	381				0.381	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Benzo(b)fluoranthene	249				0.249	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Benzo(g,h,i)perylene	226				0.226	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Benzo(k)fluoranthene	257				0.257	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Chrysene	307				0.307	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Dibenz(a,h)anthracene	52.6				0.0526	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Fluoranthene	458				0.458	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Fluorene	20.9				0.0209	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Indeno(1,2,3-cd)pyrene	191				0.191	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Naphthalene	63.2				0.0632	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Phenanthrene	177				0.177	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Pyrene	526				0.526	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Lead, Total		36.2			36.2	
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Aroclor 1016	13.7			U	0.00252	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Aroclor 1221	13.7			U	0.003375	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Aroclor 1232	13.7			U	0.00323	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Aroclor 1242	13.7			U	0.002315	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Aroclor 1248	13.7			U	0.0029	Total PCBs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Aroclor 1254	43.1				0.0431	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Aroclor 1260	12.3			J	0.0123	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Aroclor 1262	13.7			U	0.002645	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Aroclor 1268	13.7			U	0.00228	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_029	029	1	PCBs, Total	55.4			J	0.0554	
Verrazano Narrows	EW_23B1_CHEM_029	029	1	2,4'-DDD	0.912			U	0.000456	Total DDx
Verrazano Narrows	EW_23B1_CHEM_029	029	1	2,4'-DDE	0.912			U	0.000456	Total DDx
Verrazano Narrows	EW_23B1_CHEM_029	029	1	2,4'-DDT	0.912			U	0.000456	Total DDx
Verrazano Narrows	EW_23B1_CHEM_029	029	1	4,4'-DDD	1.08				0.00108	Total DDx
Verrazano Narrows	EW_23B1_CHEM_029	029	1	4,4'-DDE	1.45				0.00145	Total DDx
Verrazano Narrows	EW_23B1_CHEM_029	029	1	4,4'-DDT	0.912			U	0.000456	Total DDx
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Chlordane	45.8			U	0.0229	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_029	029	1	alpha-Chlordane	0.912			U	0.000456	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Dieldrin	0.912			U	0.000456	
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Mirex	0.912			U	0.000456	
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Oxychlordane	1.82			U	0.00091	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_029	029	1	gamma-Chlordane	1.14				0.00114	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_029	029	1	Solids, Total			52.7			
Gravesend Bay	EW_23B1_CHEM_033	033	1	Arsenic, Total		6.78			6.78	
Gravesend Bay	EW_23B1_CHEM_033	033	1	Cadmium, Total		0.545			0.545	
Gravesend Bay	EW_23B1_CHEM_033	033	1	Copper, Total		36.4			36.4	
Gravesend Bay	EW_23B1_CHEM_033	033	1	Mercury, Total		0.498			0.498	
Gravesend Bay	EW_23B1_CHEM_033	033	1	2-Chloronaphthalene	7.77			U	0.00142	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	2-Methylnaphthalene	34.6				0.0346	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Acenaphthene	19.6				0.0196	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Acenaphthylene	60.2				0.0602	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Anthracene	102				0.102	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Benz(a)anthracene	361				0.361	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Benzo(a)pyrene	451				0.451	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Benzo(b)fluoranthene	327				0.327	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Benzo(g,h,i)perylene	296				0.296	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Benzo(k)fluoranthene	272				0.272	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Chrysene	330				0.33	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Dibenz(a,h)anthracene	64				0.064	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Fluoranthene	452				0.452	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Fluorene	25.1				0.0251	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Indeno(1,2,3-cd)pyrene	234				0.234	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Naphthalene	61.3				0.0613	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Phenanthrene	184				0.184	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Pyrene	580				0.58	Total PAHs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Lead, Total		53.9			53.9	
Gravesend Bay	EW_23B1_CHEM_033	033	1	Aroclor 1016	14.1			U	0.0026	Total PCBs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Aroclor 1221	14.1			U	0.003485	Total PCBs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Aroclor 1232	14.1			U	0.003335	Total PCBs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Aroclor 1242	14.1			U	0.00239	Total PCBs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Aroclor 1248	14.1			U	0.002995	Total PCBs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Aroclor 1254	41.1				0.0411	Total PCBs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Aroclor 1260	11.2			J	0.0112	Total PCBs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Aroclor 1262	14.1			U	0.00273	Total PCBs
Gravesend Bay	EW_23B1_CHEM_033	033	1	Aroclor 1268	14.1			U	0.002355	Total PCBs
Gravesend Bay	EW_23B1_CHEM_033	033	1	PCBs, Total	52.3			J	0.0523	
Gravesend Bay	EW_23B1_CHEM_033	033	1	2,4'-DDD	0.942			U	0.000471	Total DDx
Gravesend Bay	EW_23B1_CHEM_033	033	1	2,4'-DDE	0.942			U	0.000471	Total DDx
Gravesend Bay	EW_23B1_CHEM_033	033	1	2,4'-DDT	0.942			U	0.000471	Total DDx
Gravesend Bay	EW_23B1_CHEM_033	033	1	4,4'-DDD	1.32				0.00132	Total DDx
Gravesend Bay	EW_23B1_CHEM_033	033	1	4,4'-DDE	2.38				0.00238	Total DDx
Gravesend Bay	EW_23B1_CHEM_033	033	1	4,4'-DDT	0.942			U	0.000471	Total DDx
Gravesend Bay	EW_23B1_CHEM_033	033	1	Chlordane	47.3			U	0.02365	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_033	033	1	alpha-Chlordane	0.942			U	0.000471	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_033	033	1	Dieldrin	0.942			U	0.000471	
Gravesend Bay	EW_23B1_CHEM_033	033	1	Mirex	0.942			U	0.000471	
Gravesend Bay	EW_23B1_CHEM_033	033	1	Oxychlordane	1.88			U	0.00094	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_033	033	1	gamma-Chlordane	0.942			U	0.000471	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_033	033	1	Solids, Total			49.6			
Gravesend Bay	EW_23B1_CHEM_037	037	1	Arsenic, Total		3.12			3.12	
Gravesend Bay	EW_23B1_CHEM_037	037	1	Cadmium, Total		0.323			0.323	
Gravesend Bay	EW_23B1_CHEM_037	037	1	Copper, Total		16.2			16.2	
Gravesend Bay	EW_23B1_CHEM_037	037	1	Mercury, Total		0.237			0.237	
Gravesend Bay	EW_23B1_CHEM_037	037	1	2-Chloronaphthalene	6.02			U	0.0011	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	2-Methylnaphthalene	11.4				0.0114	Total PAHs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Gravesend Bay	EW_23B1_CHEM_037	037	1	Acenaphthene	5.65			J	0.00565	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Acenaphthylene	9.58				0.00958	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Anthracene	32.4				0.0324	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Benz(a)anthracene	97.7				0.0977	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Benzo(a)pyrene	130				0.13	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Benzo(b)fluoranthene	125				0.125	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Benzo(g,h,i)perylene	84.9				0.0849	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Benzo(k)fluoranthene	55.4				0.0554	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Chrysene	106				0.106	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Dibenz(a,h)anthracene	20				0.02	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Fluoranthene	132				0.132	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Fluorene	10.7				0.0107	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Indeno(1,2,3-cd)pyrene	70.3				0.0703	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Naphthalene	18.1				0.0181	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Phenanthrene	53.5				0.0535	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Pyrene	155				0.155	Total PAHs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Lead, Total		27.2			27.2	
Gravesend Bay	EW_23B1_CHEM_037	037	1	Aroclor 1016	11.4			U	0.0021	Total PCBs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Aroclor 1221	11.4			U	0.002815	Total PCBs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Aroclor 1232	11.4			U	0.002695	Total PCBs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Aroclor 1242	11.4			U	0.00193	Total PCBs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Aroclor 1248	11.4			U	0.00242	Total PCBs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Aroclor 1254	24.6				0.0246	Total PCBs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Aroclor 1260	6.11			J	0.00611	Total PCBs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Aroclor 1262	11.4			U	0.002205	Total PCBs
Gravesend Bay	EW_23B1_CHEM_037	037	1	Aroclor 1268	11.4			U	0.0019	Total PCBs
Gravesend Bay	EW_23B1_CHEM_037	037	1	PCBs, Total	30.7			J	0.0307	
Gravesend Bay	EW_23B1_CHEM_037	037	1	2,4'-DDD	0.761			U	0.0003805	Total DDx
Gravesend Bay	EW_23B1_CHEM_037	037	1	2,4'-DDE	0.761			U	0.0003805	Total DDx
Gravesend Bay	EW_23B1_CHEM_037	037	1	2,4'-DDT	0.761			U	0.0003805	Total DDx
Gravesend Bay	EW_23B1_CHEM_037	037	1	4,4'-DDD	0.761			U	0.0003805	Total DDx
Gravesend Bay	EW_23B1_CHEM_037	037	1	4,4'-DDE	1.14				0.00114	Total DDx
Gravesend Bay	EW_23B1_CHEM_037	037	1	4,4'-DDT	0.761			U	0.0003805	Total DDx
Gravesend Bay	EW_23B1_CHEM_037	037	1	Chlordane	38.2			U	0.0191	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_037	037	1	alpha-Chlordane	0.761			U	0.0003805	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_037	037	1	Dieldrin	0.761			U	0.0003805	
Gravesend Bay	EW_23B1_CHEM_037	037	1	Mirex	0.761			U	0.0003805	
Gravesend Bay	EW_23B1_CHEM_037	037	1	Oxychlordane	1.52			U	0.00076	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_037	037	1	gamma-Chlordane	0.761			U	0.0003805	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_037	037	1	Solids, Total			64.5			
Gravesend Bay	EW_23B1_CHEM_041	041	1	Arsenic, Total		1.99			1.99	
Gravesend Bay	EW_23B1_CHEM_041	041	1	Cadmium, Total		0.201		J	0.201	
Gravesend Bay	EW_23B1_CHEM_041	041	1	Copper, Total		9.29			9.29	
Gravesend Bay	EW_23B1_CHEM_041	041	1	Mercury, Total		0.146			0.146	
Gravesend Bay	EW_23B1_CHEM_041	041	1	2-Chloronaphthalene	5.46			U	0.000995	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	2-Methylnaphthalene	9.56				0.00956	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Acenaphthene	6.22				0.00622	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Acenaphthylene	11.5				0.0115	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Anthracene	39.4				0.0394	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Benz(a)anthracene	124				0.124	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Benzo(a)pyrene	134				0.134	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Benzo(b)fluoranthene	105				0.105	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Benzo(g,h,i)perylene	80.4				0.0804	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Benzo(k)fluoranthene	86.6				0.0866	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Chrysene	110				0.11	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Dibenz(a,h)anthracene	17.6				0.0176	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Fluoranthene	204				0.204	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Fluorene	13.4				0.0134	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Indeno(1,2,3-cd)pyrene	68.8				0.0688	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Naphthalene	26				0.026	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Phenanthrene	98.6				0.0986	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Pyrene	206				0.206	Total PAHs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Lead, Total		16.8			16.8	
Gravesend Bay	EW_23B1_CHEM_041	041	1	Aroclor 1016	10.1			U	0.001855	Total PCBs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Aroclor 1221	10.1			U	0.002485	Total PCBs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Aroclor 1232	10.1			U	0.00238	Total PCBs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Aroclor 1242	10.1			U	0.00171	Total PCBs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Aroclor 1248	10.1			U	0.00214	Total PCBs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Aroclor 1254	15.7				0.0157	Total PCBs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Aroclor 1260	10.1			U	0.00214	Total PCBs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Gravesend Bay	EW_23B1_CHEM_041	041	1	Aroclor 1262	10.1			U	0.00195	Total PCBs
Gravesend Bay	EW_23B1_CHEM_041	041	1	Aroclor 1268	10.1			U	0.00168	Total PCBs
Gravesend Bay	EW_23B1_CHEM_041	041	1	PCBs, Total	15.7				0.0157	
Gravesend Bay	EW_23B1_CHEM_041	041	1	2,4'-DDD	0.672			U	0.000336	Total DDx
Gravesend Bay	EW_23B1_CHEM_041	041	1	2,4'-DDE	0.672			U	0.000336	Total DDx
Gravesend Bay	EW_23B1_CHEM_041	041	1	2,4'-DDT	0.672			U	0.000336	Total DDx
Gravesend Bay	EW_23B1_CHEM_041	041	1	4,4'-DDD	0.702				0.000702	Total DDx
Gravesend Bay	EW_23B1_CHEM_041	041	1	4,4'-DDE	0.921				0.000921	Total DDx
Gravesend Bay	EW_23B1_CHEM_041	041	1	4,4'-DDT	1.24				0.00124	Total DDx
Gravesend Bay	EW_23B1_CHEM_041	041	1	Chlordane	33.7			U	0.01685	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_041	041	1	alpha-Chlordane	0.672			U	0.000336	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_041	041	1	Dieldrin	0.672			U	0.000336	
Gravesend Bay	EW_23B1_CHEM_041	041	1	Mirex	0.672			U	0.000336	
Gravesend Bay	EW_23B1_CHEM_041	041	1	Oxychlordane	1.34			U	0.00067	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_041	041	1	gamma-Chlordane	0.672			U	0.000336	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_041	041	1	Solids, Total			70.5			
Lower Bay	EW_23B1_CHEM_045	045	1	Arsenic, Total		2.38			2.38	
Lower Bay	EW_23B1_CHEM_045	045	1	Cadmium, Total		0.193		J	0.193	
Lower Bay	EW_23B1_CHEM_045	045	1	Copper, Total		8.63			8.63	
Lower Bay	EW_23B1_CHEM_045	045	1	Mercury, Total		0.116			0.116	
Lower Bay	EW_23B1_CHEM_045	045	1	2-Chloronaphthalene	5.87			U	0.00107	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	2-Methylnaphthalene	4.74			J	0.00474	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Acenaphthene	2.39			J	0.00239	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Acenaphthylene	7.78				0.00778	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Anthracene	10.5				0.0105	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Benz(a)anthracene	28.5				0.0285	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Benzo(a)pyrene	33.8				0.0338	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Benzo(b)fluoranthene	31				0.031	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Benzo(g,h,i)perylene	27.9				0.0279	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Benzo(k)fluoranthene	25.7				0.0257	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Chrysene	27.7				0.0277	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Dibenz(a,h)anthracene	5.38			J	0.00538	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Fluoranthene	43.2				0.0432	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Fluorene	5.87			U	0.001735	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Indeno(1,2,3-cd)pyrene	20.8				0.0208	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Naphthalene	9.14				0.00914	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Phenanthrene	21.6				0.0216	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Pyrene	52.2				0.0522	Total PAHs
Lower Bay	EW_23B1_CHEM_045	045	1	Lead, Total		16.5			16.5	
Lower Bay	EW_23B1_CHEM_045	045	1	Aroclor 1016	10.6			U	0.001955	Total PCBs
Lower Bay	EW_23B1_CHEM_045	045	1	Aroclor 1221	10.6			U	0.00262	Total PCBs
Lower Bay	EW_23B1_CHEM_045	045	1	Aroclor 1232	10.6			U	0.00251	Total PCBs
Lower Bay	EW_23B1_CHEM_045	045	1	Aroclor 1242	10.6			U	0.0018	Total PCBs
Lower Bay	EW_23B1_CHEM_045	045	1	Aroclor 1248	10.6			U	0.00225	Total PCBs
Lower Bay	EW_23B1_CHEM_045	045	1	Aroclor 1254	15.4				0.0154	Total PCBs
Lower Bay	EW_23B1_CHEM_045	045	1	Aroclor 1260	10.6			U	0.00225	Total PCBs
Lower Bay	EW_23B1_CHEM_045	045	1	Aroclor 1262	10.6			U	0.002055	Total PCBs
Lower Bay	EW_23B1_CHEM_045	045	1	Aroclor 1268	10.6			U	0.00177	Total PCBs
Lower Bay	EW_23B1_CHEM_045	045	1	PCBs, Total	15.4				0.0154	
Lower Bay	EW_23B1_CHEM_045	045	1	2,4'-DDD	0.142			U	0.000071	Total DDx
Lower Bay	EW_23B1_CHEM_045	045	1	2,4'-DDE	0.142			U	0.000071	Total DDx
Lower Bay	EW_23B1_CHEM_045	045	1	2,4'-DDT	0.142			U	0.000071	Total DDx
Lower Bay	EW_23B1_CHEM_045	045	1	4,4'-DDD	0.279				0.000279	Total DDx
Lower Bay	EW_23B1_CHEM_045	045	1	4,4'-DDE	0.852				0.000852	Total DDx
Lower Bay	EW_23B1_CHEM_045	045	1	4,4'-DDT	0.142			U	0.000071	Total DDx
Lower Bay	EW_23B1_CHEM_045	045	1	Chlordane	7.11			U	0.003555	Total Chlordane
Lower Bay	EW_23B1_CHEM_045	045	1	alpha-Chlordane	0.142			U	0.000071	Total Chlordane
Lower Bay	EW_23B1_CHEM_045	045	1	Dieldrin	0.142			U	0.000071	
Lower Bay	EW_23B1_CHEM_045	045	1	Mirex	0.142			U	0.000071	
Lower Bay	EW_23B1_CHEM_045	045	1	Oxychlordane	0.283			U	0.0001415	Total Chlordane
Lower Bay	EW_23B1_CHEM_045	045	1	gamma-Chlordane	0.142			U	0.000071	Total Chlordane
Lower Bay	EW_23B1_CHEM_045	045	1	Solids, Total			67.8			
Lower Bay	EW_23B1_CHEM_049	049	1	Arsenic, Total		1.72			1.72	
Lower Bay	EW_23B1_CHEM_049	049	1	Cadmium, Total		0.093		J	0.093	
Lower Bay	EW_23B1_CHEM_049	049	1	Copper, Total		2.85			2.85	
Lower Bay	EW_23B1_CHEM_049	049	1	Mercury, Total		0.058			0.058	
Lower Bay	EW_23B1_CHEM_049	049	1	2-Chloronaphthalene	5.09			U	0.00093	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	2-Methylnaphthalene	5.09			U	0.001105	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Acenaphthene	3.74			J	0.00374	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Acenaphthylene	9.4				0.0094	Total PAHs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Lower Bay	EW_23B1_CHEM_049	049	1	Anthracene	37.6				0.0376	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Benz(a)anthracene	109				0.109	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Benzo(a)pyrene	97.7				0.0977	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Benzo(b)fluoranthene	82.5				0.0825	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Benzo(g,h,i)perylene	49.3				0.0493	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Benzo(k)fluoranthene	63.2				0.0632	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Chrysene	88.2				0.0882	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Dibenz(a,h)anthracene	12.6				0.0126	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Fluoranthene	194				0.194	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Fluorene	7.37				0.00737	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Indeno(1,2,3-cd)pyrene	46.1				0.0461	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Naphthalene	6.93				0.00693	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Phenanthrene	96.6				0.0966	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Pyrene	162				0.162	Total PAHs
Lower Bay	EW_23B1_CHEM_049	049	1	Lead, Total		9.51			9.51	
Lower Bay	EW_23B1_CHEM_049	049	1	Aroclor 1016	9.41			U	0.00173	Total PCBs
Lower Bay	EW_23B1_CHEM_049	049	1	Aroclor 1221	9.41			U	0.00232	Total PCBs
Lower Bay	EW_23B1_CHEM_049	049	1	Aroclor 1232	9.41			U	0.00222	Total PCBs
Lower Bay	EW_23B1_CHEM_049	049	1	Aroclor 1242	9.41			U	0.001595	Total PCBs
Lower Bay	EW_23B1_CHEM_049	049	1	Aroclor 1248	9.41			U	0.001995	Total PCBs
Lower Bay	EW_23B1_CHEM_049	049	1	Aroclor 1254	9.41			U	0.00198	Total PCBs
Lower Bay	EW_23B1_CHEM_049	049	1	Aroclor 1260	9.41			U	0.001995	Total PCBs
Lower Bay	EW_23B1_CHEM_049	049	1	Aroclor 1262	9.41			U	0.00182	Total PCBs
Lower Bay	EW_23B1_CHEM_049	049	1	Aroclor 1268	9.41			U	0.00157	Total PCBs
Lower Bay	EW_23B1_CHEM_049	049	1	PCBs, Total	9.41			U	0.00157	
Lower Bay	EW_23B1_CHEM_049	049	1	2,4'-DDD	0.125			U	0.0000625	Total DDx
Lower Bay	EW_23B1_CHEM_049	049	1	2,4'-DDE	0.125			U	0.0000625	Total DDx
Lower Bay	EW_23B1_CHEM_049	049	1	2,4'-DDT	0.125			U	0.0000625	Total DDx
Lower Bay	EW_23B1_CHEM_049	049	1	4,4'-DDD	0.125			U	0.0000625	Total DDx
Lower Bay	EW_23B1_CHEM_049	049	1	4,4'-DDE	0.125			U	0.0000625	Total DDx
Lower Bay	EW_23B1_CHEM_049	049	1	4,4'-DDT	0.125			U	0.0000625	Total DDx
Lower Bay	EW_23B1_CHEM_049	049	1	Chlordane	6.3			U	0.00315	Total Chlordane
Lower Bay	EW_23B1_CHEM_049	049	1	alpha-Chlordane	0.125			U	0.0000625	Total Chlordane
Lower Bay	EW_23B1_CHEM_049	049	1	Dieldrin	0.125			U	0.0000625	
Lower Bay	EW_23B1_CHEM_049	049	1	Mirex	0.125			U	0.0000625	
Lower Bay	EW_23B1_CHEM_049	049	1	Oxychlordane	0.251			U	0.0001255	Total Chlordane
Lower Bay	EW_23B1_CHEM_049	049	1	gamma-Chlordane	0.125			U	0.0000625	Total Chlordane
Lower Bay	EW_23B1_CHEM_049	049	1	Solids, Total			74.7			
Lower Bay	EW_23B1_CHEM_092	092	1	Arsenic, Total		1.37			1.37	
Lower Bay	EW_23B1_CHEM_092	092	1	Cadmium, Total		0.096		J	0.096	
Lower Bay	EW_23B1_CHEM_092	092	1	Copper, Total		3.97			3.97	
Lower Bay	EW_23B1_CHEM_092	092	1	Mercury, Total		0.06			0.06	
Lower Bay	EW_23B1_CHEM_092	092	1	2-Chloronaphthalene	5.26			U	0.00096	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	2-Methylnaphthalene	5.26			U	0.001145	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Acenaphthene	5.62				0.00562	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Acenaphthylene	5.26			U	0.00103	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Anthracene	27.8				0.0278	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Benz(a)anthracene	49.1				0.0491	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Benzo(a)pyrene	45.1				0.0451	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Benzo(b)fluoranthene	43.3				0.0433	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Benzo(g,h,i)perylene	24.9				0.0249	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Benzo(k)fluoranthene	21.4				0.0214	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Chrysene	42.6				0.0426	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Dibenz(a,h)anthracene	5.51				0.00551	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Fluoranthene	77.2				0.0772	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Fluorene	4.23			J	0.00423	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Indeno(1,2,3-cd)pyrene	21.4				0.0214	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Naphthalene	4.5			J	0.0045	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Phenanthrene	32.7				0.0327	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Pyrene	71.9				0.0719	Total PAHs
Lower Bay	EW_23B1_CHEM_092	092	1	Lead, Total		9.73			9.73	
Lower Bay	EW_23B1_CHEM_092	092	1	Aroclor 1016	9.74			U	0.00179	Total PCBs
Lower Bay	EW_23B1_CHEM_092	092	1	Aroclor 1221	9.74			U	0.0024	Total PCBs
Lower Bay	EW_23B1_CHEM_092	092	1	Aroclor 1232	9.74			U	0.0023	Total PCBs
Lower Bay	EW_23B1_CHEM_092	092	1	Aroclor 1242	9.74			U	0.00165	Total PCBs
Lower Bay	EW_23B1_CHEM_092	092	1	Aroclor 1248	9.74			U	0.002065	Total PCBs
Lower Bay	EW_23B1_CHEM_092	092	1	Aroclor 1254	9.74			U	0.00205	Total PCBs
Lower Bay	EW_23B1_CHEM_092	092	1	Aroclor 1260	9.74			U	0.002065	Total PCBs
Lower Bay	EW_23B1_CHEM_092	092	1	Aroclor 1262	9.74			U	0.00188	Total PCBs
Lower Bay	EW_23B1_CHEM_092	092	1	Aroclor 1268	9.74			U	0.00162	Total PCBs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Lower Bay	EW_23B1_CHEM_092	092	1	PCBs, Total	9.74			U	0.00162	
Lower Bay	EW_23B1_CHEM_092	092	1	2,4'-DDD	0.13			U	0.000065	Total DDx
Lower Bay	EW_23B1_CHEM_092	092	1	2,4'-DDE	0.13			U	0.000065	Total DDx
Lower Bay	EW_23B1_CHEM_092	092	1	2,4'-DDT	0.13			U	0.000065	Total DDx
Lower Bay	EW_23B1_CHEM_092	092	1	4,4'-DDD	0.13			U	0.000065	Total DDx
Lower Bay	EW_23B1_CHEM_092	092	1	4,4'-DDE	0.13			U	0.000065	Total DDx
Lower Bay	EW_23B1_CHEM_092	092	1	4,4'-DDT	0.13			U	0.000065	Total DDx
Lower Bay	EW_23B1_CHEM_092	092	1	Chlordane	6.52			U	0.00326	Total Chlordane
Lower Bay	EW_23B1_CHEM_092	092	1	alpha-Chlordane	0.13			U	0.000065	Total Chlordane
Lower Bay	EW_23B1_CHEM_092	092	1	Dieldrin	0.13			U	0.000065	
Lower Bay	EW_23B1_CHEM_092	092	1	Mirex	0.13			U	0.000065	
Lower Bay	EW_23B1_CHEM_092	092	1	Oxychlordane	0.26			U	0.00013	Total Chlordane
Lower Bay	EW_23B1_CHEM_092	092	1	gamma-Chlordane	0.13			U	0.000065	Total Chlordane
Lower Bay	EW_23B1_CHEM_092	092	1	Solids, Total			74			
Lower Bay	EW_23B1_CHEM_093	093	1	Arsenic, Total		2.06			2.06	
Lower Bay	EW_23B1_CHEM_093	093	1	Cadmium, Total		0.08		J	0.08	
Lower Bay	EW_23B1_CHEM_093	093	1	Copper, Total		2.91			2.91	
Lower Bay	EW_23B1_CHEM_093	093	1	Mercury, Total		0.055			0.055	
Lower Bay	EW_23B1_CHEM_093	093	1	2-Chloronaphthalene	5.24			U	0.000955	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	2-Methylnaphthalene	5.24			U	0.00114	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Acenaphthene	5.24			U	0.00102	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Acenaphthylene	5.24			U	0.001025	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Anthracene	7.26				0.00726	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Benz(a)anthracene	33.9				0.0339	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Benzo(a)pyrene	33.5				0.0335	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Benzo(b)fluoranthene	31.2				0.0312	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Benzo(g,h,i)perylene	20.4				0.0204	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Benzo(k)fluoranthene	21.1				0.0211	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Chrysene	28.7				0.0287	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Dibenz(a,h)anthracene	4.88			J	0.00488	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Fluoranthene	38.9				0.0389	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Fluorene	5.24			U	0.00155	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Indeno(1,2,3-cd)pyrene	16.7				0.0167	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Naphthalene	4.3			J	0.0043	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Phenanthrene	11.3				0.0113	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Pyrene	45.9				0.0459	Total PAHs
Lower Bay	EW_23B1_CHEM_093	093	1	Lead, Total		10.3			10.3	
Lower Bay	EW_23B1_CHEM_093	093	1	Aroclor 1016	9.54			U	0.001755	Total PCBs
Lower Bay	EW_23B1_CHEM_093	093	1	Aroclor 1221	9.54			U	0.00235	Total PCBs
Lower Bay	EW_23B1_CHEM_093	093	1	Aroclor 1232	9.54			U	0.00225	Total PCBs
Lower Bay	EW_23B1_CHEM_093	093	1	Aroclor 1242	9.54			U	0.001615	Total PCBs
Lower Bay	EW_23B1_CHEM_093	093	1	Aroclor 1248	9.54			U	0.00202	Total PCBs
Lower Bay	EW_23B1_CHEM_093	093	1	Aroclor 1254	9.54			U	0.00201	Total PCBs
Lower Bay	EW_23B1_CHEM_093	093	1	Aroclor 1260	9.54			U	0.00202	Total PCBs
Lower Bay	EW_23B1_CHEM_093	093	1	Aroclor 1262	9.54			U	0.001845	Total PCBs
Lower Bay	EW_23B1_CHEM_093	093	1	Aroclor 1268	9.54			U	0.00159	Total PCBs
Lower Bay	EW_23B1_CHEM_093	093	1	PCBs, Total	9.54			U	0.00159	
Lower Bay	EW_23B1_CHEM_093	093	1	2,4'-DDD	0.127			U	0.0000635	Total DDx
Lower Bay	EW_23B1_CHEM_093	093	1	2,4'-DDE	0.127			U	0.0000635	Total DDx
Lower Bay	EW_23B1_CHEM_093	093	1	2,4'-DDT	0.127			U	0.0000635	Total DDx
Lower Bay	EW_23B1_CHEM_093	093	1	4,4'-DDD	0.127			U	0.0000635	Total DDx
Lower Bay	EW_23B1_CHEM_093	093	1	4,4'-DDE	0.127			U	0.0000635	Total DDx
Lower Bay	EW_23B1_CHEM_093	093	1	4,4'-DDT	0.127			U	0.0000635	Total DDx
Lower Bay	EW_23B1_CHEM_093	093	1	Chlordane	6.38			U	0.00319	Total Chlordane
Lower Bay	EW_23B1_CHEM_093	093	1	alpha-Chlordane	0.127			U	0.0000635	Total Chlordane
Lower Bay	EW_23B1_CHEM_093	093	1	Dieldrin	0.127			U	0.0000635	
Lower Bay	EW_23B1_CHEM_093	093	1	Mirex	0.127			U	0.0000635	
Lower Bay	EW_23B1_CHEM_093	093	1	Oxychlordane	0.254			U	0.000127	Total Chlordane
Lower Bay	EW_23B1_CHEM_093	093	1	gamma-Chlordane	0.127			U	0.0000635	Total Chlordane
Lower Bay	EW_23B1_CHEM_093	093	1	Solids, Total			75.1			
Lower Bay	EW_23B1_CHEM_094	094	1	Arsenic, Total		2.03			2.03	
Lower Bay	EW_23B1_CHEM_094	094	1	Cadmium, Total		0.286			0.286	
Lower Bay	EW_23B1_CHEM_094	094	1	Copper, Total		9.07			9.07	
Lower Bay	EW_23B1_CHEM_094	094	1	Mercury, Total		0.137			0.137	
Lower Bay	EW_23B1_CHEM_094	094	1	2-Chloronaphthalene	5.47			U	0.001	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	2-Methylnaphthalene	3.75			J	0.00375	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Acenaphthene	2.42			J	0.00242	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Acenaphthylene	2.15			J	0.00215	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Anthracene	8.45				0.00845	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Benz(a)anthracene	22.6				0.0226	Total PAHs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Lower Bay	EW_23B1_CHEM_094	094	1	Benzo(a)pyrene	31.3				0.0313	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Benzo(b)fluoranthene	32.2				0.0322	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Benzo(g,h,i)perylene	23.7				0.0237	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Benzo(k)fluoranthene	16.6				0.0166	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Chrysene	23.4				0.0234	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Dibenz(a,h)anthracene	4.24			J	0.00424	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Fluoranthene	34.6				0.0346	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Fluorene	4.34			J	0.00434	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Indeno(1,2,3-cd)pyrene	19.6				0.0196	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Naphthalene	6.03				0.00603	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Phenanthrene	19.9				0.0199	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Pyrene	43.2				0.0432	Total PAHs
Lower Bay	EW_23B1_CHEM_094	094	1	Lead, Total		17.5			17.5	
Lower Bay	EW_23B1_CHEM_094	094	1	Aroclor 1016	10.3			U	0.001905	Total PCBs
Lower Bay	EW_23B1_CHEM_094	094	1	Aroclor 1221	10.3			U	0.00255	Total PCBs
Lower Bay	EW_23B1_CHEM_094	094	1	Aroclor 1232	10.3			U	0.00244	Total PCBs
Lower Bay	EW_23B1_CHEM_094	094	1	Aroclor 1242	10.3			U	0.00175	Total PCBs
Lower Bay	EW_23B1_CHEM_094	094	1	Aroclor 1248	10.3			U	0.00219	Total PCBs
Lower Bay	EW_23B1_CHEM_094	094	1	Aroclor 1254	17				0.017	Total PCBs
Lower Bay	EW_23B1_CHEM_094	094	1	Aroclor 1260	10.3			U	0.00219	Total PCBs
Lower Bay	EW_23B1_CHEM_094	094	1	Aroclor 1262	10.3			U	0.002	Total PCBs
Lower Bay	EW_23B1_CHEM_094	094	1	Aroclor 1268	10.3			U	0.001725	Total PCBs
Lower Bay	EW_23B1_CHEM_094	094	1	PCBs, Total	17				0.017	
Lower Bay	EW_23B1_CHEM_094	094	1	2,4'-DDD	0.69			U	0.000345	Total DDx
Lower Bay	EW_23B1_CHEM_094	094	1	2,4'-DDE	0.69			U	0.000345	Total DDx
Lower Bay	EW_23B1_CHEM_094	094	1	2,4'-DDT	0.69			U	0.000345	Total DDx
Lower Bay	EW_23B1_CHEM_094	094	1	4,4'-DDD	0.69			U	0.000345	Total DDx
Lower Bay	EW_23B1_CHEM_094	094	1	4,4'-DDE	0.748				0.000748	Total DDx
Lower Bay	EW_23B1_CHEM_094	094	1	4,4'-DDT	0.69			U	0.000345	Total DDx
Lower Bay	EW_23B1_CHEM_094	094	1	Chlordane	34.6			U	0.0173	Total Chlordane
Lower Bay	EW_23B1_CHEM_094	094	1	alpha-Chlordane	0.69			U	0.000345	Total Chlordane
Lower Bay	EW_23B1_CHEM_094	094	1	Dieldrin	0.69			U	0.000345	
Lower Bay	EW_23B1_CHEM_094	094	1	Mirex	0.69			U	0.000345	
Lower Bay	EW_23B1_CHEM_094	094	1	Oxychlordane	1.38			U	0.00069	Total Chlordane
Lower Bay	EW_23B1_CHEM_094	094	1	gamma-Chlordane	0.69			U	0.000345	Total Chlordane
Lower Bay	EW_23B1_CHEM_094	094	1	Solids, Total			72			
Lower Bay	EW_23B1_CHEM_095	095	1	Arsenic, Total		2.2			2.2	
Lower Bay	EW_23B1_CHEM_095	095	1	Cadmium, Total		0.258		J	0.258	
Lower Bay	EW_23B1_CHEM_095	095	1	Copper, Total		8.89			8.89	
Lower Bay	EW_23B1_CHEM_095	095	1	Mercury, Total		0.164			0.164	
Lower Bay	EW_23B1_CHEM_095	095	1	2-Chloronaphthalene	5.62			U	0.001025	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	2-Methylnaphthalene	7.07				0.00707	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Acenaphthene	14.8				0.0148	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Acenaphthylene	7.72				0.00772	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Anthracene	54.3				0.0543	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Benz(a)anthracene	115				0.115	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Benzo(a)pyrene	118				0.118	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Benzo(b)fluoranthene	86.8				0.0868	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Benzo(g,h,i)perylene	67.3				0.0673	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Benzo(k)fluoranthene	83.7				0.0837	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Chrysene	113				0.113	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Dibenz(a,h)anthracene	15.2				0.0152	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Fluoranthene	202				0.202	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Fluorene	16.2				0.0162	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Indeno(1,2,3-cd)pyrene	59.1				0.0591	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Naphthalene	12.3				0.0123	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Phenanthrene	123				0.123	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Pyrene	188				0.188	Total PAHs
Lower Bay	EW_23B1_CHEM_095	095	1	Lead, Total		17.3			17.3	
Lower Bay	EW_23B1_CHEM_095	095	1	Aroclor 1016	10.6			U	0.001955	Total PCBs
Lower Bay	EW_23B1_CHEM_095	095	1	Aroclor 1221	10.6			U	0.002625	Total PCBs
Lower Bay	EW_23B1_CHEM_095	095	1	Aroclor 1232	10.6			U	0.00251	Total PCBs
Lower Bay	EW_23B1_CHEM_095	095	1	Aroclor 1242	10.6			U	0.0018	Total PCBs
Lower Bay	EW_23B1_CHEM_095	095	1	Aroclor 1248	10.6			U	0.002255	Total PCBs
Lower Bay	EW_23B1_CHEM_095	095	1	Aroclor 1254	12.4				0.0124	Total PCBs
Lower Bay	EW_23B1_CHEM_095	095	1	Aroclor 1260	10.6			U	0.002255	Total PCBs
Lower Bay	EW_23B1_CHEM_095	095	1	Aroclor 1262	10.6			U	0.002055	Total PCBs
Lower Bay	EW_23B1_CHEM_095	095	1	Aroclor 1268	10.6			U	0.00177	Total PCBs
Lower Bay	EW_23B1_CHEM_095	095	1	PCBs, Total	12.4				0.0124	
Lower Bay	EW_23B1_CHEM_095	095	1	2,4'-DDD	0.709			U	0.0003545	Total DDx

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Lower Bay	EW_23B1_CHEM_095	095	1	2,4'-DDE	0.709			U	0.0003545	Total DDx
Lower Bay	EW_23B1_CHEM_095	095	1	2,4'-DDT	0.709			U	0.0003545	Total DDx
Lower Bay	EW_23B1_CHEM_095	095	1	4,4'-DDD	0.709			U	0.0003545	Total DDx
Lower Bay	EW_23B1_CHEM_095	095	1	4,4'-DDE	0.709			U	0.0003545	Total DDx
Lower Bay	EW_23B1_CHEM_095	095	1	4,4'-DDT	0.709			U	0.0003545	Total DDx
Lower Bay	EW_23B1_CHEM_095	095	1	Chlordane	35.6			U	0.0178	Total Chlordane
Lower Bay	EW_23B1_CHEM_095	095	1	alpha-Chlordane	0.709			U	0.0003545	Total Chlordane
Lower Bay	EW_23B1_CHEM_095	095	1	Dieldrin	0.709			U	0.0003545	
Lower Bay	EW_23B1_CHEM_095	095	1	Mirex	0.709			U	0.0003545	
Lower Bay	EW_23B1_CHEM_095	095	1	Oxychlordane	1.42			U	0.00071	Total Chlordane
Lower Bay	EW_23B1_CHEM_095	095	1	gamma-Chlordane	0.709			U	0.0003545	Total Chlordane
Lower Bay	EW_23B1_CHEM_095	095	1	Solids, Total			67.8			
Gravesend Bay	EW_23B1_CHEM_096	096	1	Arsenic, Total		2.14			2.14	
Gravesend Bay	EW_23B1_CHEM_096	096	1	Cadmium, Total		0.137		J	0.137	
Gravesend Bay	EW_23B1_CHEM_096	096	1	Copper, Total		8.18			8.18	
Gravesend Bay	EW_23B1_CHEM_096	096	1	Mercury, Total		0.107			0.107	
Gravesend Bay	EW_23B1_CHEM_096	096	1	2-Chloronaphthalene	5.39			U	0.000985	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	2-Methylnaphthalene	2.48			J	0.00248	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Acenaphthene	5.82				0.00582	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Acenaphthylene	2.85			J	0.00285	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Anthracene	15.6				0.0156	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Benz(a)anthracene	40.5				0.0405	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Benzo(a)pyrene	34.4				0.0344	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Benzo(b)fluoranthene	29.6				0.0296	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Benzo(g,h,i)perylene	19				0.019	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Benzo(k)fluoranthene	24.5				0.0245	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Chrysene	32.5				0.0325	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Dibenz(a,h)anthracene	4.28			J	0.00428	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Fluoranthene	76.3				0.0763	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Fluorene	5.39			U	0.001595	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Indeno(1,2,3-cd)pyrene	16.5				0.0165	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Naphthalene	5.58				0.00558	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Phenanthrene	19.6				0.0196	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Pyrene	77.2				0.0772	Total PAHs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Lead, Total		15.8			15.8	
Gravesend Bay	EW_23B1_CHEM_096	096	1	Aroclor 1016	10.3			U	0.0019	Total PCBs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Aroclor 1221	10.3			U	0.00255	Total PCBs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Aroclor 1232	10.3			U	0.00244	Total PCBs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Aroclor 1242	10.3			U	0.00175	Total PCBs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Aroclor 1248	10.3			U	0.00219	Total PCBs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Aroclor 1254	17.5				0.0175	Total PCBs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Aroclor 1260	10.3			U	0.00219	Total PCBs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Aroclor 1262	10.3			U	0.002	Total PCBs
Gravesend Bay	EW_23B1_CHEM_096	096	1	Aroclor 1268	10.3			U	0.001725	Total PCBs
Gravesend Bay	EW_23B1_CHEM_096	096	1	PCBs, Total	17.5				0.0175	
Gravesend Bay	EW_23B1_CHEM_096	096	1	2,4'-DDD	0.138			U	0.000069	Total DDx
Gravesend Bay	EW_23B1_CHEM_096	096	1	2,4'-DDE	0.936				0.000936	Total DDx
Gravesend Bay	EW_23B1_CHEM_096	096	1	2,4'-DDT	0.138			U	0.000069	Total DDx
Gravesend Bay	EW_23B1_CHEM_096	096	1	4,4'-DDD	0.211				0.000211	Total DDx
Gravesend Bay	EW_23B1_CHEM_096	096	1	4,4'-DDE	0.956				0.000956	Total DDx
Gravesend Bay	EW_23B1_CHEM_096	096	1	4,4'-DDT	0.138			U	0.000069	Total DDx
Gravesend Bay	EW_23B1_CHEM_096	096	1	Chlordane	6.92			U	0.00346	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_096	096	1	alpha-Chlordane	0.138			U	0.000069	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_096	096	1	Dieldrin	0.138			U	0.000069	
Gravesend Bay	EW_23B1_CHEM_096	096	1	Mirex	0.138			U	0.000069	
Gravesend Bay	EW_23B1_CHEM_096	096	1	Oxychlordane	0.276			U	0.000138	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_096	096	1	gamma-Chlordane	0.292				0.000292	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_096	096	1	Solids, Total			68.1			
Gravesend Bay	EW_23B1_CHEM_097	097	1	Arsenic, Total		1.74			1.74	
Gravesend Bay	EW_23B1_CHEM_097	097	1	Cadmium, Total		0.157		J	0.157	
Gravesend Bay	EW_23B1_CHEM_097	097	1	Copper, Total		7.87			7.87	
Gravesend Bay	EW_23B1_CHEM_097	097	1	Mercury, Total		0.123			0.123	
Gravesend Bay	EW_23B1_CHEM_097	097	1	2-Chloronaphthalene	5.85			U	0.00107	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	2-Methylnaphthalene	4.79			J	0.00479	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Acenaphthene	3.38			J	0.00338	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Acenaphthylene	2.74			J	0.00274	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Anthracene	11.9				0.0119	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Benz(a)anthracene	35.4				0.0354	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Benzo(a)pyrene	45.4				0.0454	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Benzo(b)fluoranthene	39.7				0.0397	Total PAHs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Gravesend Bay	EW_23B1_CHEM_097	097	1	Benzo(g,h,i)perylene	31.6				0.0316	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Benzo(k)fluoranthene	27.6				0.0276	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Chrysene	34.4				0.0344	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Dibenz(a,h)anthracene	6.6				0.0066	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Fluoranthene	50.8				0.0508	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Fluorene	5.1			J	0.0051	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Indeno(1,2,3-cd)pyrene	25.4				0.0254	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Naphthalene	7.4				0.0074	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Phenanthrene	22.3				0.0223	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Pyrene	61.7				0.0617	Total PAHs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Lead, Total		14.8			14.8	
Gravesend Bay	EW_23B1_CHEM_097	097	1	Aroclor 1016	11			U	0.002025	Total PCBs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Aroclor 1221	11			U	0.002715	Total PCBs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Aroclor 1232	11			U	0.0026	Total PCBs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Aroclor 1242	11			U	0.001865	Total PCBs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Aroclor 1248	11			U	0.002335	Total PCBs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Aroclor 1254	11			U	0.00232	Total PCBs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Aroclor 1260	11			U	0.002335	Total PCBs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Aroclor 1262	11			U	0.00213	Total PCBs
Gravesend Bay	EW_23B1_CHEM_097	097	1	Aroclor 1268	11			U	0.001835	Total PCBs
Gravesend Bay	EW_23B1_CHEM_097	097	1	PCBs, Total	11			U	0.001835	
Gravesend Bay	EW_23B1_CHEM_097	097	1	2,4'-DDD	0.734			U	0.000367	Total DDx
Gravesend Bay	EW_23B1_CHEM_097	097	1	2,4'-DDE	0.734			U	0.000367	Total DDx
Gravesend Bay	EW_23B1_CHEM_097	097	1	2,4'-DDT	0.734			U	0.000367	Total DDx
Gravesend Bay	EW_23B1_CHEM_097	097	1	4,4'-DDD	0.734			U	0.000367	Total DDx
Gravesend Bay	EW_23B1_CHEM_097	097	1	4,4'-DDE	0.734			U	0.000367	Total DDx
Gravesend Bay	EW_23B1_CHEM_097	097	1	4,4'-DDT	0.734			U	0.000367	Total DDx
Gravesend Bay	EW_23B1_CHEM_097	097	1	Chlordane	36.8			U	0.0184	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_097	097	1	alpha-Chlordane	0.734			U	0.000367	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_097	097	1	Dieldrin	0.734			U	0.000367	
Gravesend Bay	EW_23B1_CHEM_097	097	1	Mirex	0.734			U	0.000367	
Gravesend Bay	EW_23B1_CHEM_097	097	1	Oxychlordane	1.47			U	0.000735	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_097	097	1	gamma-Chlordane	0.734			U	0.000367	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_097	097	1	Solids, Total			66			
Gravesend Bay	EW_23B1_CHEM_098	098	1	Arsenic, Total		2.95			2.95	
Gravesend Bay	EW_23B1_CHEM_098	098	1	Cadmium, Total		0.308			0.308	
Gravesend Bay	EW_23B1_CHEM_098	098	1	Copper, Total		17.6			17.6	
Gravesend Bay	EW_23B1_CHEM_098	098	1	Mercury, Total		0.237			0.237	
Gravesend Bay	EW_23B1_CHEM_098	098	1	2-Chloronaphthalene	5.79			U	0.001055	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	2-Methylnaphthalene	5.85				0.00585	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Acenaphthene	5.12			J	0.00512	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Acenaphthylene	12.4				0.0124	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Anthracene	18.9				0.0189	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Benz(a)anthracene	59				0.059	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Benzo(a)pyrene	67.8				0.0678	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Benzo(b)fluoranthene	52.2				0.0522	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Benzo(g,h,i)perylene	40.9				0.0409	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Benzo(k)fluoranthene	41.5				0.0415	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Chrysene	57.4				0.0574	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Dibenz(a,h)anthracene	9.54				0.00954	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Fluoranthene	68.4				0.0684	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Fluorene	5.79			U	0.00171	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Indeno(1,2,3-cd)pyrene	31.3				0.0313	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Naphthalene	12.8				0.0128	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Phenanthrene	29.9				0.0299	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Pyrene	89.4				0.0894	Total PAHs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Lead, Total		27.3			27.3	
Gravesend Bay	EW_23B1_CHEM_098	098	1	Aroclor 1016	11			U	0.002025	Total PCBs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Aroclor 1221	11			U	0.00272	Total PCBs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Aroclor 1232	11			U	0.0026	Total PCBs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Aroclor 1242	11			U	0.001865	Total PCBs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Aroclor 1248	11			U	0.002335	Total PCBs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Aroclor 1254	26.6				0.0266	Total PCBs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Aroclor 1260	11			U	0.002335	Total PCBs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Aroclor 1262	11			U	0.00213	Total PCBs
Gravesend Bay	EW_23B1_CHEM_098	098	1	Aroclor 1268	11			U	0.001835	Total PCBs
Gravesend Bay	EW_23B1_CHEM_098	098	1	PCBs, Total	26.6				0.0266	
Gravesend Bay	EW_23B1_CHEM_098	098	1	2,4'-DDD	0.147			U	0.0000735	Total DDx
Gravesend Bay	EW_23B1_CHEM_098	098	1	2,4'-DDE	0.147			U	0.0000735	Total DDx
Gravesend Bay	EW_23B1_CHEM_098	098	1	2,4'-DDT	0.147			U	0.0000735	Total DDx

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Gravesend Bay	EW_23B1_CHEM_098	098	1	4,4'-DDD	0.526				0.000526	Total DDx
Gravesend Bay	EW_23B1_CHEM_098	098	1	4,4'-DDE	1.39				0.00139	Total DDx
Gravesend Bay	EW_23B1_CHEM_098	098	1	4,4'-DDT	0.147			U	0.0000735	Total DDx
Gravesend Bay	EW_23B1_CHEM_098	098	1	Chlordane	7.37			U	0.003685	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_098	098	1	alpha-Chlordane	0.147			U	0.0000735	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_098	098	1	Dieldrin	0.147			U	0.0000735	
Gravesend Bay	EW_23B1_CHEM_098	098	1	Mirex	0.147			U	0.0000735	
Gravesend Bay	EW_23B1_CHEM_098	098	1	Oxychlordane	0.294			U	0.000147	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_098	098	1	gamma-Chlordane	0.147			U	0.0000735	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_098	098	1	Solids, Total			63.8			
Gravesend Bay	EW_23B1_CHEM_099	099	1	Arsenic, Total		2.86			2.86	
Gravesend Bay	EW_23B1_CHEM_099	099	1	Cadmium, Total		0.3			0.3	
Gravesend Bay	EW_23B1_CHEM_099	099	1	Copper, Total		14.3			14.3	
Gravesend Bay	EW_23B1_CHEM_099	099	1	Mercury, Total		0.187			0.187	
Gravesend Bay	EW_23B1_CHEM_099	099	1	2-Chloronaphthalene	5.85			U	0.001065	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	2-Methylnaphthalene	11				0.011	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Acenaphthene	8.83				0.00883	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Acenaphthylene	6.12				0.00612	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Anthracene	34.5				0.0345	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Benz(a)anthracene	103				0.103	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Benzo(a)pyrene	111				0.111	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Benzo(b)fluoranthene	112				0.112	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Benzo(g,h,i)perylene	78.3				0.0783	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Benzo(k)fluoranthene	62.9				0.0629	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Chrysene	97.9				0.0979	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Dibenz(a,h)anthracene	13.8				0.0138	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Fluoranthene	162				0.162	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Fluorene	14.2				0.0142	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Indeno(1,2,3-cd)pyrene	63.3				0.0633	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Naphthalene	18.6				0.0186	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Phenanthrene	91.2				0.0912	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Pyrene	177				0.177	Total PAHs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Lead, Total		24.5			24.5	
Gravesend Bay	EW_23B1_CHEM_099	099	1	Aroclor 1016	11.2			U	0.00206	Total PCBs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Aroclor 1221	11.2			U	0.00276	Total PCBs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Aroclor 1232	11.2			U	0.00264	Total PCBs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Aroclor 1242	11.2			U	0.001895	Total PCBs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Aroclor 1248	11.2			U	0.00237	Total PCBs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Aroclor 1254	21				0.021	Total PCBs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Aroclor 1260	11.2			U	0.00237	Total PCBs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Aroclor 1262	11.2			U	0.002165	Total PCBs
Gravesend Bay	EW_23B1_CHEM_099	099	1	Aroclor 1268	11.2			U	0.001865	Total PCBs
Gravesend Bay	EW_23B1_CHEM_099	099	1	PCBs, Total	21				0.021	
Gravesend Bay	EW_23B1_CHEM_099	099	1	2,4'-DDD	0.746			U	0.000373	Total DDx
Gravesend Bay	EW_23B1_CHEM_099	099	1	2,4'-DDE	0.746			U	0.000373	Total DDx
Gravesend Bay	EW_23B1_CHEM_099	099	1	2,4'-DDT	0.746			U	0.000373	Total DDx
Gravesend Bay	EW_23B1_CHEM_099	099	1	4,4'-DDD	0.746			U	0.000373	Total DDx
Gravesend Bay	EW_23B1_CHEM_099	099	1	4,4'-DDE	0.765				0.000765	Total DDx
Gravesend Bay	EW_23B1_CHEM_099	099	1	4,4'-DDT	0.746			U	0.000373	Total DDx
Gravesend Bay	EW_23B1_CHEM_099	099	1	Chlordane	37.4			U	0.0187	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_099	099	1	alpha-Chlordane	0.746			U	0.000373	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_099	099	1	Dieldrin	0.746			U	0.000373	
Gravesend Bay	EW_23B1_CHEM_099	099	1	Mirex	0.746			U	0.000373	
Gravesend Bay	EW_23B1_CHEM_099	099	1	Oxychlordane	1.49			U	0.000745	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_099	099	1	gamma-Chlordane	0.746			U	0.000373	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_099	099	1	Solids, Total			65.9			
Gravesend Bay	EW_23B1_CHEM_100	100	1	Arsenic, Total		5.37			5.37	
Gravesend Bay	EW_23B1_CHEM_100	100	1	Cadmium, Total		0.454			0.454	
Gravesend Bay	EW_23B1_CHEM_100	100	1	Copper, Total		31.2			31.2	
Gravesend Bay	EW_23B1_CHEM_100	100	1	Mercury, Total		0.4			0.4	
Gravesend Bay	EW_23B1_CHEM_100	100	1	2-Chloronaphthalene	7.31			U	0.001335	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	2-Methylnaphthalene	33				0.033	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Acenaphthene	21.9				0.0219	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Acenaphthylene	21.6				0.0216	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Anthracene	112				0.112	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Benz(a)anthracene	375				0.375	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Benzo(a)pyrene	483				0.483	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Benzo(b)fluoranthene	417				0.417	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Benzo(g,h,i)perylene	293				0.293	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Benzo(k)fluoranthene	208				0.208	Total PAHs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Gravesend Bay	EW_23B1_CHEM_100	100	1	Chrysene	373				0.373	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Dibenz(a,h)anthracene	60.1				0.0601	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Fluoranthene	513				0.513	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Fluorene	31.1				0.0311	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Indeno(1,2,3-cd)pyrene	250				0.25	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Naphthalene	73.8				0.0738	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Phenanthrene	212				0.212	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Pyrene	570				0.57	Total PAHs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Lead, Total		44.9			44.9	
Gravesend Bay	EW_23B1_CHEM_100	100	1	Aroclor 1016	13.7			U	0.002515	Total PCBs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Aroclor 1221	13.7			U	0.003375	Total PCBs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Aroclor 1232	13.7			U	0.003225	Total PCBs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Aroclor 1242	13.7			U	0.002315	Total PCBs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Aroclor 1248	13.7			U	0.0029	Total PCBs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Aroclor 1254	44.8				0.0448	Total PCBs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Aroclor 1260	11.3			J	0.0113	Total PCBs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Aroclor 1262	13.7			U	0.002645	Total PCBs
Gravesend Bay	EW_23B1_CHEM_100	100	1	Aroclor 1268	13.7			U	0.00228	Total PCBs
Gravesend Bay	EW_23B1_CHEM_100	100	1	PCBs, Total	56.1			J	0.0561	
Gravesend Bay	EW_23B1_CHEM_100	100	1	2,4'-DDD	0.912			U	0.000456	Total DDx
Gravesend Bay	EW_23B1_CHEM_100	100	1	2,4'-DDE	0.912			U	0.000456	Total DDx
Gravesend Bay	EW_23B1_CHEM_100	100	1	2,4'-DDT	0.912			U	0.000456	Total DDx
Gravesend Bay	EW_23B1_CHEM_100	100	1	4,4'-DDD	1.13				0.00113	Total DDx
Gravesend Bay	EW_23B1_CHEM_100	100	1	4,4'-DDE	2.64				0.00264	Total DDx
Gravesend Bay	EW_23B1_CHEM_100	100	1	4,4'-DDT	0.912			U	0.000456	Total DDx
Gravesend Bay	EW_23B1_CHEM_100	100	1	Chlordane	45.8			U	0.0229	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_100	100	1	alpha-Chlordane	0.912			U	0.000456	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_100	100	1	Dieldrin	0.912			U	0.000456	
Gravesend Bay	EW_23B1_CHEM_100	100	1	Mirex	0.912			U	0.000456	
Gravesend Bay	EW_23B1_CHEM_100	100	1	Oxychlordane	1.82			U	0.00091	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_100	100	1	gamma-Chlordane	0.912			U	0.000456	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_100	100	1	Solids, Total			53.3			
Gravesend Bay	EW_23B1_CHEM_101	101	1	Arsenic, Total		5.76			5.76	
Gravesend Bay	EW_23B1_CHEM_101	101	1	Cadmium, Total		0.413			0.413	
Gravesend Bay	EW_23B1_CHEM_101	101	1	Copper, Total		29.7			29.7	
Gravesend Bay	EW_23B1_CHEM_101	101	1	Mercury, Total		0.494			0.494	
Gravesend Bay	EW_23B1_CHEM_101	101	1	2-Chloronaphthalene	7.26			U	0.001325	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	2-Methylnaphthalene	31.4				0.0314	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Acenaphthene	16.7				0.0167	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Acenaphthylene	55.5				0.0555	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Anthracene	88.9				0.0889	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Benz(a)anthracene	304				0.304	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Benzo(a)pyrene	352				0.352	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Benzo(b)fluoranthene	260				0.26	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Benzo(g,h,i)perylene	231				0.231	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Benzo(k)fluoranthene	228				0.228	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Chrysene	260				0.26	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Dibenz(a,h)anthracene	45.2				0.0452	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Fluoranthene	361				0.361	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Fluorene	19.6				0.0196	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Indeno(1,2,3-cd)pyrene	176				0.176	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Naphthalene	55.1				0.0551	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Phenanthrene	162				0.162	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Pyrene	451				0.451	Total PAHs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Lead, Total		45.8			45.8	
Gravesend Bay	EW_23B1_CHEM_101	101	1	Aroclor 1016	14.1			U	0.0026	Total PCBs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Aroclor 1221	14.1			U	0.00349	Total PCBs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Aroclor 1232	14.1			U	0.00334	Total PCBs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Aroclor 1242	14.1			U	0.002395	Total PCBs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Aroclor 1248	14.1			U	0.003	Total PCBs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Aroclor 1254	55				0.055	Total PCBs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Aroclor 1260	15.5				0.0155	Total PCBs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Aroclor 1262	14.1			U	0.002735	Total PCBs
Gravesend Bay	EW_23B1_CHEM_101	101	1	Aroclor 1268	14.1			U	0.00236	Total PCBs
Gravesend Bay	EW_23B1_CHEM_101	101	1	PCBs, Total	70.5				0.0705	
Gravesend Bay	EW_23B1_CHEM_101	101	1	2,4'-DDD	0.943			U	0.0004715	Total DDx
Gravesend Bay	EW_23B1_CHEM_101	101	1	2,4'-DDE	0.943			U	0.0004715	Total DDx
Gravesend Bay	EW_23B1_CHEM_101	101	1	2,4'-DDT	0.943			U	0.0004715	Total DDx
Gravesend Bay	EW_23B1_CHEM_101	101	1	4,4'-DDD	1.82				0.00182	Total DDx
Gravesend Bay	EW_23B1_CHEM_101	101	1	4,4'-DDE	3.72				0.00372	Total DDx

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Gravesend Bay	EW_23B1_CHEM_101	101	1	4,4'-DDT	0.943			U	0.0004715	Total DDx
Gravesend Bay	EW_23B1_CHEM_101	101	1	Chlordane	47.3			U	0.02365	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_101	101	1	alpha-Chlordane	0.943			U	0.0004715	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_101	101	1	Dieldrin	0.943			U	0.0004715	
Gravesend Bay	EW_23B1_CHEM_101	101	1	Mirex	0.943			U	0.0004715	
Gravesend Bay	EW_23B1_CHEM_101	101	1	Oxychlordane	1.89			U	0.000945	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_101	101	1	gamma-Chlordane	0.943			U	0.0004715	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_101	101	1	Solids, Total			52.6			
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Arsenic, Total		6.29			6.29	
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Cadmium, Total		0.38		J	0.38	
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Copper, Total		31.7			31.7	
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Mercury, Total		0.397			0.397	
Verrazano Narrows	EW_23B1_CHEM_102	102	1	2-Chloronaphthalene	7.75			U	0.001415	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	2-Methylnaphthalene	28.2				0.0282	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Acenaphthene	18.1				0.0181	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Acenaphthylene	70.9				0.0709	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Anthracene	142				0.142	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Benz(a)anthracene	324				0.324	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Benzo(a)pyrene	384				0.384	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Benzo(b)fluoranthene	249				0.249	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Benzo(g,h,i)perylene	213				0.213	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Benzo(k)fluoranthene	249				0.249	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Chrysene	336				0.336	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Dibenz(a,h)anthracene	56.3				0.0563	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Fluoranthene	410				0.41	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Fluorene	21.4				0.0214	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Indeno(1,2,3-cd)pyrene	174				0.174	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Naphthalene	49.9				0.0499	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Phenanthrene	156				0.156	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Pyrene	474				0.474	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Lead, Total		46.6			46.6	
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Aroclor 1016	14.8			U	0.00273	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Aroclor 1221	14.8			U	0.003655	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Aroclor 1232	14.8			U	0.0035	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Aroclor 1242	14.8			U	0.00251	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Aroclor 1248	14.8			U	0.00314	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Aroclor 1254	60.2				0.0602	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Aroclor 1260	19.7				0.0197	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Aroclor 1262	14.8			U	0.002865	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Aroclor 1268	14.8			U	0.00247	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_102	102	1	PCBs, Total	79.9				0.0799	
Verrazano Narrows	EW_23B1_CHEM_102	102	1	2,4'-DDD	0.988			U	0.000494	Total DDx
Verrazano Narrows	EW_23B1_CHEM_102	102	1	2,4'-DDE	0.988			U	0.000494	Total DDx
Verrazano Narrows	EW_23B1_CHEM_102	102	1	2,4'-DDT	0.988			U	0.000494	Total DDx
Verrazano Narrows	EW_23B1_CHEM_102	102	1	4,4'-DDD	1.45				0.00145	Total DDx
Verrazano Narrows	EW_23B1_CHEM_102	102	1	4,4'-DDE	2.1				0.0021	Total DDx
Verrazano Narrows	EW_23B1_CHEM_102	102	1	4,4'-DDT	0.988			U	0.000494	Total DDx
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Chlordane	49.6			U	0.0248	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_102	102	1	alpha-Chlordane	0.988			U	0.000494	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Dieldrin	0.988			U	0.000494	
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Mirex	0.988			U	0.000494	
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Oxychlordane	1.98			U	0.00099	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_102	102	1	gamma-Chlordane	1.57				0.00157	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_102	102	1	Solids, Total			48.6			
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Arsenic, Total		4.17			4.17	
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Cadmium, Total		0.254		J	0.254	
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Copper, Total		19.8			19.8	
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Mercury, Total		0.259			0.259	
Verrazano Narrows	EW_23B1_CHEM_103	103	1	2-Chloronaphthalene	6.83			U	0.001245	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	2-Methylnaphthalene	19.8				0.0198	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Acenaphthene	12.7				0.0127	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Acenaphthylene	38.9				0.0389	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Anthracene	59				0.059	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Benz(a)anthracene	208				0.208	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Benzo(a)pyrene	209				0.209	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Benzo(b)fluoranthene	153				0.153	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Benzo(g,h,i)perylene	133				0.133	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Benzo(k)fluoranthene	157				0.157	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Chrysene	161				0.161	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Dibenz(a,h)anthracene	29.8				0.0298	Total PAHs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Fluoranthene	250				0.25	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Fluorene	11.2				0.0112	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Indeno(1,2,3-cd)pyrene	96.4				0.0964	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Naphthalene	34.3				0.0343	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Phenanthrene	99.6				0.0996	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Pyrene	315				0.315	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Lead, Total		27.3			27.3	
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Aroclor 1016	12.2			U	0.002245	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Aroclor 1221	12.2			U	0.00301	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Aroclor 1232	12.2			U	0.00288	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Aroclor 1242	12.2			U	0.002065	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Aroclor 1248	12.2			U	0.002585	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Aroclor 1254	34				0.034	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Aroclor 1260	8.94			J	0.00894	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Aroclor 1262	12.2			U	0.00236	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Aroclor 1268	12.2			U	0.002035	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_103	103	1	PCBs, Total	42.9			J	0.0429	
Verrazano Narrows	EW_23B1_CHEM_103	103	1	2,4'-DDD	0.813			U	0.0004065	Total DDx
Verrazano Narrows	EW_23B1_CHEM_103	103	1	2,4'-DDE	0.813			U	0.0004065	Total DDx
Verrazano Narrows	EW_23B1_CHEM_103	103	1	2,4'-DDT	0.813			U	0.0004065	Total DDx
Verrazano Narrows	EW_23B1_CHEM_103	103	1	4,4'-DDD	1.06				0.00106	Total DDx
Verrazano Narrows	EW_23B1_CHEM_103	103	1	4,4'-DDE	1.36				0.00136	Total DDx
Verrazano Narrows	EW_23B1_CHEM_103	103	1	4,4'-DDT	0.813			U	0.0004065	Total DDx
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Chlordane	40.8			U	0.0204	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_103	103	1	alpha-Chlordane	0.813			U	0.0004065	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Dieldrin	0.813			U	0.0004065	
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Mirex	0.813			U	0.0004065	
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Oxychlordane	1.63			U	0.000815	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_103	103	1	gamma-Chlordane	0.95				0.00095	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_103	103	1	Solids, Total			58.1			
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Arsenic, Total		7.76			7.76	
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Cadmium, Total		0.172		J	0.172	
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Copper, Total		20.8			20.8	
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Mercury, Total		0.104			0.104	
Verrazano Narrows	EW_23B1_CHEM_104	104	1	2-Chloronaphthalene	4.92			U	0.000895	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	2-Methylnaphthalene	8.3				0.0083	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Acenaphthene	7.37				0.00737	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Acenaphthylene	35.1				0.0351	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Anthracene	98.8				0.0988	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Benz(a)anthracene	227				0.227	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Benzo(a)pyrene	244				0.244	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Benzo(b)fluoranthene	164				0.164	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Benzo(g,h,i)perylene	126				0.126	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Benzo(k)fluoranthene	171				0.171	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Chrysene	222				0.222	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Dibenz(a,h)anthracene	34.1				0.0341	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Fluoranthene	375				0.375	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Fluorene	14.8				0.0148	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Indeno(1,2,3-cd)pyrene	120				0.12	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Naphthalene	19.3				0.0193	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Phenanthrene	154				0.154	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Pyrene	353				0.353	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Lead, Total		116			116	
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Aroclor 1016	9.11			U	0.001675	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Aroclor 1221	9.11			U	0.002245	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Aroclor 1232	9.11			U	0.00215	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Aroclor 1242	9.11			U	0.00154	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Aroclor 1248	9.11			U	0.00193	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Aroclor 1254	9.11			U	0.00192	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Aroclor 1260	9.11			U	0.00193	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Aroclor 1262	9.11			U	0.00176	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Aroclor 1268	9.11			U	0.00152	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_104	104	1	PCBs, Total	9.11			U	0.00152	
Verrazano Narrows	EW_23B1_CHEM_104	104	1	2,4'-DDD	0.121			U	0.0000605	Total DDx
Verrazano Narrows	EW_23B1_CHEM_104	104	1	2,4'-DDE	0.121			U	0.0000605	Total DDx
Verrazano Narrows	EW_23B1_CHEM_104	104	1	2,4'-DDT	0.121			U	0.0000605	Total DDx
Verrazano Narrows	EW_23B1_CHEM_104	104	1	4,4'-DDD	0.121			U	0.0000605	Total DDx
Verrazano Narrows	EW_23B1_CHEM_104	104	1	4,4'-DDE	0.21				0.00021	Total DDx
Verrazano Narrows	EW_23B1_CHEM_104	104	1	4,4'-DDT	0.121			U	0.0000605	Total DDx
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Chlordane	6.1			U	0.00305	Total Chlordane

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Verrazano Narrows	EW_23B1_CHEM_104	104	1	alpha-Chlordane	0.121			U	0.0000605	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Dieldrin	0.121			U	0.0000605	
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Mirex	0.121			U	0.0000605	
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Oxychlordane	0.243			U	0.0001215	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_104	104	1	gamma-Chlordane	0.121			U	0.0000605	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_104	104	1	Solids, Total			76.4			
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Arsenic, Total		5.72			5.72	
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Cadmium, Total		0.288		J	0.288	
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Copper, Total		26.1			26.1	
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Mercury, Total		0.611			0.611	
Verrazano Narrows	EW_23B1_CHEM_105	105	1	2-Chloronaphthalene	7.51			U	0.00137	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	2-Methylnaphthalene	24.7				0.0247	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Acenaphthene	14.4				0.0144	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Acenaphthylene	64.5				0.0645	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Anthracene	107				0.107	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Benz(a)anthracene	278				0.278	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Benzo(a)pyrene	322				0.322	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Benzo(b)fluoranthene	225				0.225	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Benzo(g,h,i)perylene	186				0.186	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Benzo(k)fluoranthene	216				0.216	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Chrysene	266				0.266	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Dibenz(a,h)anthracene	44.6				0.0446	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Fluoranthene	376				0.376	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Fluorene	18.5				0.0185	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Indeno(1,2,3-cd)pyrene	154				0.154	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Naphthalene	39.6				0.0396	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Phenanthrene	144				0.144	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Pyrene	408				0.408	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Lead, Total		36.5			36.5	
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Aroclor 1016	14.1			U	0.00259	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Aroclor 1221	14.1			U	0.00347	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Aroclor 1232	14.1			U	0.00332	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Aroclor 1242	14.1			U	0.00238	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Aroclor 1248	14.1			U	0.00298	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Aroclor 1254	49.7				0.0497	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Aroclor 1260	14			J	0.014	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Aroclor 1262	14.1			U	0.00272	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Aroclor 1268	14.1			U	0.002345	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_105	105	1	PCBs, Total	63.7			J	0.0637	
Verrazano Narrows	EW_23B1_CHEM_105	105	1	2,4'-DDD	0.938			U	0.000469	Total DDx
Verrazano Narrows	EW_23B1_CHEM_105	105	1	2,4'-DDE	0.938			U	0.000469	Total DDx
Verrazano Narrows	EW_23B1_CHEM_105	105	1	2,4'-DDT	0.938			U	0.000469	Total DDx
Verrazano Narrows	EW_23B1_CHEM_105	105	1	4,4'-DDD	1.45				0.00145	Total DDx
Verrazano Narrows	EW_23B1_CHEM_105	105	1	4,4'-DDE	1.66				0.00166	Total DDx
Verrazano Narrows	EW_23B1_CHEM_105	105	1	4,4'-DDT	0.938			U	0.000469	Total DDx
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Chlordane	47.1			U	0.02355	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_105	105	1	alpha-Chlordane	0.938			U	0.000469	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Dieldrin	0.938			U	0.000469	
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Mirex	0.938			U	0.000469	
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Oxychlordane	1.88			U	0.00094	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_105	105	1	gamma-Chlordane	1.34				0.00134	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_105	105	1	Solids, Total			51.5			
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Arsenic, Total		3.62			3.62	
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Cadmium, Total		0.216		J	0.216	
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Copper, Total		16.1			16.1	
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Mercury, Total		0.191			0.191	
Verrazano Narrows	EW_23B1_CHEM_106	106	1	2-Chloronaphthalene	115			U	0.0209	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	2-Methylnaphthalene	91.2			J	0.0912	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Acenaphthene	142				0.142	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Acenaphthylene	195				0.195	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Anthracene	2420				2.42	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Benz(a)anthracene	5650				5.65	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Benzo(a)pyrene	4840				4.84	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Benzo(b)fluoranthene	3730				3.73	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Benzo(g,h,i)perylene	2510				2.51	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Benzo(k)fluoranthene	3440				3.44	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Chrysene	4770				4.77	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Dibenz(a,h)anthracene	602				0.602	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Fluoranthene	9650				9.65	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Fluorene	331				0.331	Total PAHs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Indeno(1,2,3-cd)pyrene	2230				2.23	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Naphthalene	290				0.29	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Phenanthrene	4940				4.94	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Pyrene	8960				8.96	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Lead, Total		19.3			19.3	
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Aroclor 1016	10.4			U	0.00191	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Aroclor 1221	10.4			U	0.00256	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Aroclor 1232	10.4			U	0.00245	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Aroclor 1242	10.4			U	0.00176	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Aroclor 1248	10.4			U	0.0022	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Aroclor 1254	24				0.024	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Aroclor 1260	9.78			J	0.00978	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Aroclor 1262	10.4			U	0.00201	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Aroclor 1268	10.4			U	0.00173	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_106	106	1	PCBs, Total	33.8			J	0.0338	
Verrazano Narrows	EW_23B1_CHEM_106	106	1	2,4'-DDD	0.692			U	0.000346	Total DDx
Verrazano Narrows	EW_23B1_CHEM_106	106	1	2,4'-DDE	0.692			U	0.000346	Total DDx
Verrazano Narrows	EW_23B1_CHEM_106	106	1	2,4'-DDT	0.692			U	0.000346	Total DDx
Verrazano Narrows	EW_23B1_CHEM_106	106	1	4,4'-DDD	1.82				0.00182	Total DDx
Verrazano Narrows	EW_23B1_CHEM_106	106	1	4,4'-DDE	0.87				0.00087	Total DDx
Verrazano Narrows	EW_23B1_CHEM_106	106	1	4,4'-DDT	0.692			U	0.000346	Total DDx
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Chlordane	34.8			U	0.0174	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_106	106	1	alpha-Chlordane	0.692			U	0.000346	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Dieldrin	0.692			U	0.000346	
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Mirex	0.692			U	0.000346	
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Oxychlordane	1.38			U	0.00069	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_106	106	1	gamma-Chlordane	0.692			U	0.000346	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_106	106	1	Solids, Total			66.8			
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Arsenic, Total		5.01			5.01	
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Cadmium, Total		0.103		J	0.103	
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Copper, Total		5.63			5.63	
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Mercury, Total		0.083			0.083	
Verrazano Narrows	EW_23B1_CHEM_107	107	1	2-Chloronaphthalene	5.3			U	0.000965	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	2-Methylnaphthalene	7.3				0.0073	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Acenaphthene	5.65				0.00565	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Acenaphthylene	16.1				0.0161	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Anthracene	82.8				0.0828	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Benz(a)anthracene	217				0.217	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Benzo(a)pyrene	177				0.177	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Benzo(b)fluoranthene	126				0.126	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Benzo(g,h,i)perylene	86.9				0.0869	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Benzo(k)fluoranthene	153				0.153	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Chrysene	175				0.175	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Dibenz(a,h)anthracene	23.4				0.0234	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Fluoranthene	321				0.321	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Fluorene	13.1				0.0131	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Indeno(1,2,3-cd)pyrene	76.8				0.0768	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Naphthalene	20.4				0.0204	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Phenanthrene	151				0.151	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Pyrene	362				0.362	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Lead, Total		9.27			9.27	
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Aroclor 1016	9.52			U	0.00175	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Aroclor 1221	9.52			U	0.00235	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Aroclor 1232	9.52			U	0.00225	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Aroclor 1242	9.52			U	0.00161	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Aroclor 1248	9.52			U	0.00202	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Aroclor 1254	27				0.027	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Aroclor 1260	4.76			J	0.00476	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Aroclor 1262	9.52			U	0.00184	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Aroclor 1268	9.52			U	0.001585	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_107	107	1	PCBs, Total	31.8			J	0.0318	
Verrazano Narrows	EW_23B1_CHEM_107	107	1	2,4'-DDD	0.635			U	0.0003175	Total DDx
Verrazano Narrows	EW_23B1_CHEM_107	107	1	2,4'-DDE	0.635			U	0.0003175	Total DDx
Verrazano Narrows	EW_23B1_CHEM_107	107	1	2,4'-DDT	0.635			U	0.0003175	Total DDx
Verrazano Narrows	EW_23B1_CHEM_107	107	1	4,4'-DDD	1.96				0.00196	Total DDx
Verrazano Narrows	EW_23B1_CHEM_107	107	1	4,4'-DDE	1.21				0.00121	Total DDx
Verrazano Narrows	EW_23B1_CHEM_107	107	1	4,4'-DDT	0.635			U	0.0003175	Total DDx
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Chlordane	31.9			U	0.01595	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_107	107	1	alpha-Chlordane	0.635			U	0.0003175	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Dieldrin	0.635			U	0.0003175	

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Mirex	0.635			U	0.0003175	
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Oxychlordane	1.27			U	0.000635	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_107	107	1	gamma-Chlordane	0.635			U	0.0003175	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_107	107	1	Solids, Total			73.8			
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Arsenic, Total		4.09			4.09	
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Cadmium, Total		0.157		J	0.157	
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Copper, Total		12.6			12.6	
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Mercury, Total		13.6			13.6	
Verrazano Narrows	EW_23B1_CHEM_108	108	1	2-Chloronaphthalene	6.09			U	0.00111	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	2-Methylnaphthalene	21.9				0.0219	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Acenaphthene	36.2				0.0362	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Acenaphthylene	105				0.105	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Anthracene	686				0.686	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Benz(a)anthracene	1140				1.14	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Benzo(a)pyrene	1010				1.01	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Benzo(b)fluoranthene	659				0.659	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Benzo(g,h,i)perylene	539				0.539	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Benzo(k)fluoranthene	814				0.814	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Chrysene	1040				1.04	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Dibenz(a,h)anthracene	142				0.142	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	2	Fluoranthene	1950				1.95	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Fluorene	107				0.107	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Indeno(1,2,3-cd)pyrene	478				0.478	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Naphthalene	58.2				0.0582	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Phenanthrene	1070				1.07	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	2	Pyrene	1800				1.8	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Lead, Total		63.8			63.8	
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Aroclor 1016	11.7			U	0.00215	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Aroclor 1221	11.7			U	0.002885	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Aroclor 1232	11.7			U	0.00276	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Aroclor 1242	11.7			U	0.00198	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Aroclor 1248	11.7			U	0.00248	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Aroclor 1254	14.2				0.0142	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Aroclor 1260	11.7			U	0.00248	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Aroclor 1262	11.7			U	0.00226	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Aroclor 1268	11.7			U	0.00195	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_108	108	1	PCBs, Total	14.2				0.0142	
Verrazano Narrows	EW_23B1_CHEM_108	108	1	2,4'-DDD	0.779			U	0.0003895	Total DDx
Verrazano Narrows	EW_23B1_CHEM_108	108	1	2,4'-DDE	0.779			U	0.0003895	Total DDx
Verrazano Narrows	EW_23B1_CHEM_108	108	1	2,4'-DDT	0.779			U	0.0003895	Total DDx
Verrazano Narrows	EW_23B1_CHEM_108	108	1	4,4'-DDD	0.779			U	0.0003895	Total DDx
Verrazano Narrows	EW_23B1_CHEM_108	108	1	4,4'-DDE	1.26				0.00126	Total DDx
Verrazano Narrows	EW_23B1_CHEM_108	108	1	4,4'-DDT	0.779			U	0.0003895	Total DDx
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Chlordane	39.1			U	0.01955	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_108	108	1	alpha-Chlordane	0.779			U	0.0003895	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Dieldrin	0.779			U	0.0003895	
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Mirex	0.779			U	0.0003895	
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Oxychlordane	1.56			U	0.00078	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_108	108	1	gamma-Chlordane	0.779			U	0.0003895	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_108	108	1	Solids, Total			62.1			
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Arsenic, Total		4.58			4.58	
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Cadmium, Total		0.231		J	0.231	
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Copper, Total		22.4			22.4	
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Mercury, Total		0.244			0.244	
Verrazano Narrows	EW_23B1_CHEM_109	109	1	2-Chloronaphthalene	6.57			U	0.0012	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	2-Methylnaphthalene	31.4				0.0314	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Acenaphthene	23.5				0.0235	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Acenaphthylene	80.5				0.0805	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Anthracene	221				0.221	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Benz(a)anthracene	493				0.493	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Benzo(a)pyrene	530				0.53	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Benzo(b)fluoranthene	378				0.378	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Benzo(g,h,i)perylene	333				0.333	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Benzo(k)fluoranthene	402				0.402	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Chrysene	486				0.486	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Dibenz(a,h)anthracene	78.3				0.0783	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Fluoranthene	760				0.76	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Fluorene	35.2				0.0352	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Indeno(1,2,3-cd)pyrene	291				0.291	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Naphthalene	58.1				0.0581	Total PAHs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Phenanthrene	349				0.349	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Pyrene	791				0.791	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Lead, Total		30.2			30.2	
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Aroclor 1016	12.6			U	0.002325	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Aroclor 1221	12.6			U	0.003115	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Aroclor 1232	12.6			U	0.00298	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Aroclor 1242	12.6			U	0.00214	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Aroclor 1248	12.6			U	0.00268	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Aroclor 1254	32.2				0.0322	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Aroclor 1260	10.9			J	0.0109	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Aroclor 1262	12.6			U	0.00244	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Aroclor 1268	12.6			U	0.002105	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_109	109	1	PCBs, Total	43.1			J	0.0431	
Verrazano Narrows	EW_23B1_CHEM_109	109	1	2,4'-DDD	0.842			U	0.000421	Total DDx
Verrazano Narrows	EW_23B1_CHEM_109	109	1	2,4'-DDE	0.842			U	0.000421	Total DDx
Verrazano Narrows	EW_23B1_CHEM_109	109	1	2,4'-DDT	0.842			U	0.000421	Total DDx
Verrazano Narrows	EW_23B1_CHEM_109	109	1	4,4'-DDD	1.47				0.00147	Total DDx
Verrazano Narrows	EW_23B1_CHEM_109	109	1	4,4'-DDE	1.59				0.00159	Total DDx
Verrazano Narrows	EW_23B1_CHEM_109	109	1	4,4'-DDT	0.842			U	0.000421	Total DDx
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Chlordane	42.3			U	0.02115	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_109	109	1	alpha-Chlordane	0.842			U	0.000421	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Dieldrin	0.842			U	0.000421	
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Mirex	0.842			U	0.000421	
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Oxychlordane	1.68			U	0.00084	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_109	109	1	gamma-Chlordane	1.42				0.00142	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_109	109	1	Solids, Total			58.5			
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Arsenic, Total		9.38			9.38	
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Cadmium, Total		0.524			0.524	
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Copper, Total		50.4			50.4	
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Mercury, Total		0.645			0.645	
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	2-Chloronaphthalene	10.2			U	0.00186	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	2-Methylnaphthalene	76.5				0.0765	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Acenaphthene	44.8				0.0448	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Acenaphthylene	116				0.116	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Anthracene	190				0.19	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Benz(a)anthracene	519				0.519	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Benzo(a)pyrene	584				0.584	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Benzo(b)fluoranthene	490				0.49	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Benzo(g,h,i)perylene	417				0.417	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Benzo(k)fluoranthene	401				0.401	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Chrysene	471				0.471	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Dibenz(a,h)anthracene	92.7				0.0927	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Fluoranthene	645				0.645	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Fluorene	45.6				0.0456	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Indeno(1,2,3-cd)pyrene	313				0.313	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Naphthalene	118				0.118	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Phenanthrene	355				0.355	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Pyrene	838				0.838	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Lead, Total		75.4			75.4	
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Aroclor 1016	18.1			U	0.003325	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Aroclor 1221	18.1			U	0.00446	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Aroclor 1232	18.1			U	0.004265	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Aroclor 1242	18.1			U	0.00306	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Aroclor 1248	18.1			U	0.00383	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Aroclor 1254	53.9				0.0539	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Aroclor 1260	17.2			J	0.0172	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Aroclor 1262	18.1			U	0.003495	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Aroclor 1268	18.1			U	0.003015	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	PCBs, Total	71.1			J	0.0711	
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	2,4'-DDD	1.2			U	0.0006	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	2,4'-DDE	1.2			U	0.0006	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	2,4'-DDT	1.2			U	0.0006	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	4,4'-DDD	1.71				0.00171	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	4,4'-DDE	3.24				0.00324	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	4,4'-DDT	2.62				0.00262	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Chlordane	60.5			U	0.03025	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	alpha-Chlordane	1.2			U	0.0006	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Dieldrin	1.2			U	0.0006	
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Mirex	1.2			U	0.0006	
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Oxychlordane	2.41			U	0.001205	Total Chlordane

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	gamma-Chlordane	1.2			U	0.0006	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_110	110	1	Solids, Total			38.7			
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Arsenic, Total		5.87			5.87	
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Cadmium, Total		0.261		J	0.261	
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Copper, Total		21.2			21.2	
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Mercury, Total		0.408			0.408	
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	2-Chloronaphthalene	6.9			U	0.00126	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	2-Methylnaphthalene	15.7				0.0157	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Acenaphthene	12.3				0.0123	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Acenaphthylene	46.4				0.0464	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Anthracene	78.1				0.0781	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Benz(a)anthracene	170				0.17	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Benzo(a)pyrene	198				0.198	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Benzo(b)fluoranthene	134				0.134	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Benzo(g,h,i)perylene	116				0.116	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Benzo(k)fluoranthene	131				0.131	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Chrysene	177				0.177	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Dibenz(a,h)anthracene	27.1				0.0271	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Fluoranthene	250				0.25	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Fluorene	13.2				0.0132	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Indeno(1,2,3-cd)pyrene	97.8				0.0978	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Naphthalene	26.7				0.0267	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Phenanthrene	108				0.108	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Pyrene	275				0.275	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Lead, Total		34.4			34.4	
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Aroclor 1016	12			U	0.002215	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Aroclor 1221	12			U	0.00297	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Aroclor 1232	12			U	0.00284	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Aroclor 1242	12			U	0.00204	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Aroclor 1248	12			U	0.00255	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Aroclor 1254	25.1				0.0251	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Aroclor 1260	6.99			J	0.00699	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Aroclor 1262	12			U	0.00233	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Aroclor 1268	12			U	0.002005	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	PCBs, Total	32.1			J	0.0321	
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	2,4'-DDD	0.803			U	0.0004015	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	2,4'-DDE	0.803			U	0.0004015	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	2,4'-DDT	0.803			U	0.0004015	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	4,4'-DDD	0.803			U	0.0004015	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	4,4'-DDE	1.28				0.00128	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	4,4'-DDT	0.803			U	0.0004015	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Chlordane	40.3			U	0.02015	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	alpha-Chlordane	0.803			U	0.0004015	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Dieldrin	0.803			U	0.0004015	
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Mirex	0.803			U	0.0004015	
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Oxychlordane	1.6			U	0.0008	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	gamma-Chlordane	0.803			U	0.0004015	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_111	111	1	Solids, Total			57.3			
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Arsenic, Total		9			9	
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Cadmium, Total		0.481			0.481	
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Copper, Total		52.6			52.6	
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Mercury, Total		0.641			0.641	
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	2-Chloronaphthalene	9.41			U	0.001715	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	2-Methylnaphthalene	75.7				0.0757	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Acenaphthene	48.5				0.0485	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Acenaphthylene	128				0.128	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Anthracene	194				0.194	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Benz(a)anthracene	524				0.524	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Benzo(a)pyrene	585				0.585	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Benzo(b)fluoranthene	458				0.458	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Benzo(g,h,i)perylene	370				0.37	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Benzo(k)fluoranthene	337				0.337	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Chrysene	442				0.442	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Dibenz(a,h)anthracene	75.9				0.0759	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Fluoranthene	589				0.589	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Fluorene	35.5				0.0355	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Indeno(1,2,3-cd)pyrene	282				0.282	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Naphthalene	122				0.122	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Phenanthrene	277				0.277	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Pyrene	750				0.75	Total PAHs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Lead, Total		71.4			71.4	
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Aroclor 1016	16.9			U	0.003115	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Aroclor 1221	16.9			U	0.00418	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Aroclor 1232	16.9			U	0.004	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Aroclor 1242	16.9			U	0.00287	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Aroclor 1248	16.9			U	0.00359	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Aroclor 1254	48.9				0.0489	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Aroclor 1260	14.1			J	0.0141	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Aroclor 1262	16.9			U	0.003275	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Aroclor 1268	16.9			U	0.002825	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	PCBs, Total	63			J	0.063	
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	2,4'-DDD	1.13			U	0.000565	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	2,4'-DDE	1.13			U	0.000565	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	2,4'-DDT	1.13			U	0.000565	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	4,4'-DDD	1.4				0.0014	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	4,4'-DDE	3.4				0.0034	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	4,4'-DDT	1.13			U	0.000565	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Chlordane	56.7			U	0.02835	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	alpha-Chlordane	1.13			U	0.000565	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Dieldrin	1.13			U	0.000565	
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Mirex	1.13			U	0.000565	
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Oxychlordane	2.26			U	0.00113	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	gamma-Chlordane	1.13			U	0.000565	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_112	112	1	Solids, Total			40.8			
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Arsenic, Total		9.02			9.02	
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Cadmium, Total		0.442			0.442	
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Copper, Total		48.1			48.1	
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Mercury, Total		0.766			0.766	
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	2-Chloronaphthalene	8.87			U	0.00162	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	2-Methylnaphthalene	56.9				0.0569	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Acenaphthene	30.3				0.0303	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Acenaphthylene	88				0.088	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Anthracene	144				0.144	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Benz(a)anthracene	418				0.418	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Benzo(a)pyrene	443				0.443	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Benzo(b)fluoranthene	360				0.36	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Benzo(g,h,i)perylene	302				0.302	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Benzo(k)fluoranthene	325				0.325	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Chrysene	371				0.371	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Dibenz(a,h)anthracene	67.4				0.0674	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Fluoranthene	461				0.461	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Fluorene	32.4				0.0324	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Indeno(1,2,3-cd)pyrene	237				0.237	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Naphthalene	93.8				0.0938	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Phenanthrene	254				0.254	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Pyrene	620				0.62	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Lead, Total		66.7			66.7	
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Aroclor 1016	16.5			U	0.00304	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Aroclor 1221	16.5			U	0.004075	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Aroclor 1232	16.5			U	0.0039	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Aroclor 1242	16.5			U	0.0028	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Aroclor 1248	16.5			U	0.003505	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Aroclor 1254	48.3				0.0483	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Aroclor 1260	18				0.018	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Aroclor 1262	16.5			U	0.003195	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Aroclor 1268	16.5			U	0.002755	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	PCBs, Total	66.3				0.0663	
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	2,4'-DDD	1.1			U	0.00055	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	2,4'-DDE	1.1			U	0.00055	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	2,4'-DDT	1.1			U	0.00055	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	4,4'-DDD	1.52				0.00152	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	4,4'-DDE	2.78				0.00278	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	4,4'-DDT	1.82				0.00182	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Chlordane	55.3			U	0.02765	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	alpha-Chlordane	1.1			U	0.00055	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Dieldrin	1.1			U	0.00055	
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Mirex	1.1			U	0.00055	
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Oxychlordane	2.2			U	0.0011	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	gamma-Chlordane	1.1			U	0.00055	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_113	113	1	Solids, Total			43.3			

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Arsenic, Total		8.66			8.66	
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Cadmium, Total		0.484		J	0.484	
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Copper, Total		56.5			56.5	
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Mercury, Total		0.768			0.768	
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	2-Chloronaphthalene	10.4			U	0.00189	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	2-Methylnaphthalene	79.5				0.0795	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Acenaphthene	46.4				0.0464	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Acenaphthylene	114				0.114	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Anthracene	209				0.209	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Benz(a)anthracene	581				0.581	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Benzo(a)pyrene	634				0.634	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Benzo(b)fluoranthene	590				0.59	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Benzo(g,h,i)perylene	419				0.419	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Benzo(k)fluoranthene	265				0.265	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Chrysene	509				0.509	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Dibenz(a,h)anthracene	79.6				0.0796	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Fluoranthene	671				0.671	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Fluorene	36.6				0.0366	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Indeno(1,2,3-cd)pyrene	319				0.319	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Naphthalene	124				0.124	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Phenanthrene	299				0.299	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Pyrene	861				0.861	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Lead, Total		77			77	
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Aroclor 1016	19.5			U	0.003585	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Aroclor 1221	19.5			U	0.004805	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Aroclor 1232	19.5			U	0.004595	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Aroclor 1242	19.5			U	0.0033	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Aroclor 1248	19.5			U	0.00413	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Aroclor 1254	46				0.046	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Aroclor 1260	13.3			J	0.0133	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Aroclor 1262	19.5			U	0.003765	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Aroclor 1268	19.5			U	0.003245	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	PCBs, Total	59.3			J	0.0593	
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	2,4'-DDD	1.3			U	0.00065	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	2,4'-DDE	1.3			U	0.00065	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	2,4'-DDT	1.3			U	0.00065	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	4,4'-DDD	2.74				0.00274	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	4,4'-DDE	2.42				0.00242	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	4,4'-DDT	1.3			U	0.00065	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Chlordane	65.2			U	0.0326	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	alpha-Chlordane	1.3			U	0.00065	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Dieldrin	1.3			U	0.00065	
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Mirex	1.3			U	0.00065	
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Oxychlordane	2.6			U	0.0013	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	gamma-Chlordane	1.3			U	0.00065	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_114	114	1	Solids, Total			37.1			
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Arsenic, Total		10.4			10.4	
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Cadmium, Total		0.553			0.553	
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Copper, Total		74.6			74.6	
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Mercury, Total		0.764			0.764	
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	2-Chloronaphthalene	11.4			U	0.002075	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	2-Methylnaphthalene	64				0.064	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Acenaphthene	59.4				0.0594	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Acenaphthylene	128				0.128	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Anthracene	178				0.178	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Benz(a)anthracene	599				0.599	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Benzo(a)pyrene	533				0.533	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Benzo(b)fluoranthene	531				0.531	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Benzo(g,h,i)perylene	398				0.398	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Benzo(k)fluoranthene	292				0.292	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Chrysene	400				0.4	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Dibenz(a,h)anthracene	80.4				0.0804	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Fluoranthene	659				0.659	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Fluorene	42.6				0.0426	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Indeno(1,2,3-cd)pyrene	307				0.307	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Naphthalene	106				0.106	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Phenanthrene	356				0.356	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Pyrene	866				0.866	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Lead, Total		91.5			91.5	
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Aroclor 1016	20.9			U	0.00384	Total PCBs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Aroclor 1221	20.9			U	0.00515	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Aroclor 1232	20.9			U	0.004925	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Aroclor 1242	20.9			U	0.00353	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Aroclor 1248	20.9			U	0.00442	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Aroclor 1254	108				0.108	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Aroclor 1260	28.7				0.0287	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Aroclor 1262	20.9			U	0.004035	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Aroclor 1268	20.9			U	0.003475	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	PCBs, Total	137				0.137	
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	2,4'-DDD	1.39			U	0.000695	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	2,4'-DDE	4.66				0.00466	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	2,4'-DDT	1.39			U	0.000695	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	4,4'-DDD	3.47				0.00347	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	4,4'-DDE	4.03				0.00403	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	4,4'-DDT	1.39			U	0.000695	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Chlordane	69.8			U	0.0349	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	alpha-Chlordane	1.39			U	0.000695	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Dieldrin	1.39			U	0.000695	
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Mirex	1.39			U	0.000695	
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Oxychlordane	2.78			U	0.00139	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	gamma-Chlordane	4.4				0.0044	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_115	115	1	Solids, Total			34.5			
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Arsenic, Total		18.1			18.1	
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Cadmium, Total		0.852			0.852	
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Copper, Total		108			108	
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Mercury, Total		1.28			1.28	
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	2-Chloronaphthalene	15.3			U	0.002795	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	2-Methylnaphthalene	59				0.059	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Acenaphthene	35.9				0.0359	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Acenaphthylene	109				0.109	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Anthracene	136				0.136	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Benz(a)anthracene	344				0.344	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Benzo(a)pyrene	385				0.385	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Benzo(b)fluoranthene	282				0.282	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Benzo(g,h,i)perylene	253				0.253	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Benzo(k)fluoranthene	294				0.294	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Chrysene	346				0.346	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Dibenz(a,h)anthracene	59.8				0.0598	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Fluoranthene	421				0.421	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Fluorene	28.4				0.0284	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Indeno(1,2,3-cd)pyrene	200				0.2	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Naphthalene	106				0.106	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Phenanthrene	220				0.22	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Pyrene	544				0.544	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Lead, Total		129			129	
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Aroclor 1016	28.5			U	0.00525	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Aroclor 1221	28.5			U	0.00705	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Aroclor 1232	28.5			U	0.00675	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Aroclor 1242	28.5			U	0.00483	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Aroclor 1248	28.5			U	0.00605	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Aroclor 1254	129				0.129	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Aroclor 1260	46.3				0.0463	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Aroclor 1262	28.5			U	0.0055	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Aroclor 1268	28.5			U	0.004755	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	PCBs, Total	175				0.175	
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	2,4'-DDD	1.9			U	0.00095	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	2,4'-DDE	1.9			U	0.00095	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	2,4'-DDT	1.9			U	0.00095	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	4,4'-DDD	5.88				0.00588	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	4,4'-DDE	5.65				0.00565	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	4,4'-DDT	76.2				0.0762	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Chlordane	95.5			U	0.04775	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	alpha-Chlordane	3.02				0.00302	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Dieldrin	1.9			U	0.00095	
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Mirex	1.9			U	0.00095	
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Oxychlordane	3.8			U	0.0019	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	gamma-Chlordane	3.88				0.00388	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_116	116	1	Solids, Total			25.9			
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Arsenic, Total		18			18	
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Cadmium, Total		0.835			0.835	

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Copper, Total		102			102	
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Mercury, Total		1.91			1.91	
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	2-Chloronaphthalene	15.8			U	0.00289	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	2-Methylnaphthalene	69				0.069	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Acenaphthene	36.7				0.0367	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Acenaphthylene	119				0.119	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Anthracene	167				0.167	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Benz(a)anthracene	434				0.434	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Benzo(a)pyrene	472				0.472	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Benzo(b)fluoranthene	365				0.365	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Benzo(g,h,i)perylene	319				0.319	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Benzo(k)fluoranthene	336				0.336	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Chrysene	386				0.386	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Dibenz(a,h)anthracene	72.9				0.0729	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Fluoranthene	492				0.492	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Fluorene	30.1				0.0301	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Indeno(1,2,3-cd)pyrene	229				0.229	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Naphthalene	111				0.111	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Phenanthrene	242				0.242	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Pyrene	641				0.641	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Lead, Total		128			128	
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Aroclor 1016	30.6			U	0.00565	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Aroclor 1221	30.6			U	0.00755	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Aroclor 1232	30.6			U	0.0072	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Aroclor 1242	30.6			U	0.0052	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Aroclor 1248	30.6			U	0.0065	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Aroclor 1254	128				0.128	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Aroclor 1260	35.1				0.0351	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Aroclor 1262	30.6			U	0.0059	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Aroclor 1268	30.6			U	0.0051	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	PCBs, Total	163				0.163	
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	2,4'-DDD	2.04			U	0.00102	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	2,4'-DDE	2.04			U	0.00102	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	2,4'-DDT	2.04			U	0.00102	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	4,4'-DDD	2.71				0.00271	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	4,4'-DDE	4.24				0.00424	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	4,4'-DDT	2.04			U	0.00102	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Chlordane	102			U	0.051	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	alpha-Chlordane	2.04			U	0.00102	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Dieldrin	2.04			U	0.00102	
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Mirex	2.04			U	0.00102	
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Oxychlordane	4.08			U	0.00204	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	gamma-Chlordane	3.62				0.00362	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_117	117	1	Solids, Total			24.5			
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Arsenic, Total		5.46			5.46	
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Cadmium, Total		0.382			0.382	
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Copper, Total		29.8			29.8	
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Mercury, Total		0.553			0.553	
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	2-Chloronaphthalene	7.1			U	0.001295	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	2-Methylnaphthalene	32.9				0.0329	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Acenaphthene	16.8				0.0168	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Acenaphthylene	65.9				0.0659	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Anthracene	120				0.12	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Benz(a)anthracene	302				0.302	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Benzo(a)pyrene	362				0.362	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Benzo(b)fluoranthene	275				0.275	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Benzo(g,h,i)perylene	231				0.231	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Benzo(k)fluoranthene	233				0.233	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Chrysene	271				0.271	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Dibenz(a,h)anthracene	48.8				0.0488	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Fluoranthene	372				0.372	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Fluorene	23.6				0.0236	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Indeno(1,2,3-cd)pyrene	180				0.18	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Naphthalene	63				0.063	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Phenanthrene	171				0.171	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Pyrene	472				0.472	Total PAHs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Lead, Total		43.9			43.9	
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Aroclor 1016	13.4			U	0.002465	Total PCBs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Aroclor 1221	13.4			U	0.003305	Total PCBs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Aroclor 1232	13.4			U	0.00316	Total PCBs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Aroclor 1242	13.4			U	0.00227	Total PCBs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Aroclor 1248	13.4			U	0.00284	Total PCBs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Aroclor 1254	35.5				0.0355	Total PCBs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Aroclor 1260	9.24			J	0.00924	Total PCBs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Aroclor 1262	13.4			U	0.00259	Total PCBs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Aroclor 1268	13.4			U	0.00223	Total PCBs
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	PCBs, Total	44.7			J	0.0447	
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	2,4'-DDD	0.893			U	0.0004465	Total DDx
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	2,4'-DDE	0.893			U	0.0004465	Total DDx
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	2,4'-DDT	0.893			U	0.0004465	Total DDx
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	4,4'-DDD	1.12				0.00112	Total DDx
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	4,4'-DDE	2.33				0.00233	Total DDx
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	4,4'-DDT	1.44				0.00144	Total DDx
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Chlordane	44.8			U	0.0224	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	alpha-Chlordane	0.893			U	0.0004465	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Dieldrin	0.893			U	0.0004465	
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Mirex	0.893			U	0.0004465	
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Oxychlordane	1.79			U	0.000895	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	gamma-Chlordane	0.893			U	0.0004465	Total Chlordane
Gravesend Bay	EW_23B1_CHEM_DUP01	100	1	Solids, Total			54.2			
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Arsenic, Total		9.69			9.69	
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Cadmium, Total		0.479		J	0.479	
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Copper, Total		49.9			49.9	
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Mercury, Total		0.692			0.692	
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	2-Chloronaphthalene	9.58			U	0.00175	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	2-Methylnaphthalene	75.2				0.0752	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Acenaphthene	37.9				0.0379	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Acenaphthylene	138				0.138	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Anthracene	254				0.254	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Benz(a)anthracene	688				0.688	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Benzo(a)pyrene	800				0.8	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Benzo(b)fluoranthene	537				0.537	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Benzo(g,h,i)perylene	492				0.492	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Benzo(k)fluoranthene	542				0.542	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Chrysene	639				0.639	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Dibenz(a,h)anthracene	109				0.109	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Fluoranthene	778				0.778	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Fluorene	45.4				0.0454	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Indeno(1,2,3-cd)pyrene	389				0.389	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Naphthalene	124				0.124	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Phenanthrene	344				0.344	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Pyrene	987				0.987	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Lead, Total		68.8			68.8	
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Aroclor 1016	17.5			U	0.00322	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Aroclor 1221	17.5			U	0.00432	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Aroclor 1232	17.5			U	0.00413	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Aroclor 1242	17.5			U	0.002965	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Aroclor 1248	17.5			U	0.00371	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Aroclor 1254	37.2				0.0372	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Aroclor 1260	11.6			J	0.0116	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Aroclor 1262	17.5			U	0.003385	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Aroclor 1268	17.5			U	0.00292	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	PCBs, Total	48.8			J	0.0488	
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	2,4'-DDD	1.17			U	0.000585	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	2,4'-DDE	1.17			U	0.000585	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	2,4'-DDT	1.17			U	0.000585	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	4,4'-DDD	1.21				0.00121	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	4,4'-DDE	2.52				0.00252	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	4,4'-DDT	1.17			U	0.000585	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Chlordane	58.6			U	0.0293	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	alpha-Chlordane	1.17			U	0.000585	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Dieldrin	1.17			U	0.000585	
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Mirex	1.17			U	0.000585	
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Oxychlordane	2.33			U	0.001165	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	gamma-Chlordane	1.17			U	0.000585	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_DUP02	110	1	Solids, Total			39.7			
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Arsenic, Total		4.98			4.98	
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Cadmium, Total		0.26		J	0.26	
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Copper, Total		21.4			21.4	
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Mercury, Total		0.314			0.314	

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	2-Chloronaphthalene	6.39			U	0.001165	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	2-Methylnaphthalene	8.2				0.0082	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Acenaphthene	5.58			J	0.00558	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Acenaphthylene	37.6				0.0376	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Anthracene	52.6				0.0526	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Benz(a)anthracene	192				0.192	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Benzo(a)pyrene	206				0.206	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Benzo(b)fluoranthene	130				0.13	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Benzo(g,h,i)perylene	125				0.125	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Benzo(k)fluoranthene	149				0.149	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Chrysene	166				0.166	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Dibenz(a,h)anthracene	28.5				0.0285	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Fluoranthene	226				0.226	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Fluorene	6.76				0.00676	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Indeno(1,2,3-cd)pyrene	98.8				0.0988	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Naphthalene	19.8				0.0198	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Phenanthrene	83.8				0.0838	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Pyrene	266				0.266	Total PAHs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Lead, Total		26.6			26.6	
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Aroclor 1016	11.8			U	0.002175	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Aroclor 1221	11.8			U	0.00292	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Aroclor 1232	11.8			U	0.00279	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Aroclor 1242	11.8			U	0.002005	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Aroclor 1248	11.8			U	0.00251	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Aroclor 1254	29.4				0.0294	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Aroclor 1260	7.73			J	0.00773	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Aroclor 1262	11.8			U	0.00229	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Aroclor 1268	11.8			U	0.00197	Total PCBs
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	PCBs, Total	37.1			J	0.0371	
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	2,4'-DDD	0.789			U	0.0003945	Total DDx
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	2,4'-DDE	0.789			U	0.0003945	Total DDx
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	2,4'-DDT	0.789			U	0.0003945	Total DDx
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	4,4'-DDD	1.04				0.00104	Total DDx
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	4,4'-DDE	1.12				0.00112	Total DDx
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	4,4'-DDT	0.789			U	0.0003945	Total DDx
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Chlordane	39.6			U	0.0198	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	alpha-Chlordane	0.789			U	0.0003945	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Dieldrin	0.789			U	0.0003945	
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Mirex	0.789			U	0.0003945	
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Oxychlordane	1.58			U	0.00079	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	gamma-Chlordane	0.876				0.000876	Total Chlordane
Verrazano Narrows	EW_23B1_CHEM_DUP03	103	1	Solids, Total			58.9			
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Arsenic, Total		18.4			18.4	
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Cadmium, Total		0.87			0.87	
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Copper, Total		106			106	
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Mercury, Total		1.24			1.24	
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	2-Chloronaphthalene	15			U	0.00273	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	2-Methylnaphthalene	30.5				0.0305	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Acenaphthene	21.4				0.0214	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Acenaphthylene	90.9				0.0909	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Anthracene	92.2				0.0922	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Benz(a)anthracene	278				0.278	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Benzo(a)pyrene	302				0.302	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Benzo(b)fluoranthene	254				0.254	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Benzo(g,h,i)perylene	225				0.225	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Benzo(k)fluoranthene	217				0.217	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Chrysene	306				0.306	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Dibenz(a,h)anthracene	50.9				0.0509	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Fluoranthene	337				0.337	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Fluorene	17.6				0.0176	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Indeno(1,2,3-cd)pyrene	166				0.166	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Naphthalene	57.2				0.0572	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Phenanthrene	151				0.151	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Pyrene	437				0.437	Total PAHs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Lead, Total		128			128	
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Aroclor 1016	29.8			U	0.0055	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Aroclor 1221	29.8			U	0.00735	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Aroclor 1232	29.8			U	0.00705	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Aroclor 1242	29.8			U	0.00505	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Aroclor 1248	29.8			U	0.0063	Total PCBs

Group	Sample ID[2]	Station ID	Laboratory Replicate[3]	Analyte Name	Result (ug/kg)	Result (mg/kg)	Result (%)	Qualifier	Result with 1/2 MDL (mg/kg)	Summary Group
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Aroclor 1254	91.3				0.0913	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Aroclor 1260	24.8			J	0.0248	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Aroclor 1262	29.8			U	0.00575	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Aroclor 1268	29.8			U	0.004965	Total PCBs
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	PCBs, Total	116			J	0.116	
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	2,4'-DDD	1.99			U	0.000995	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	2,4'-DDE	1.99			U	0.000995	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	2,4'-DDT	1.99			U	0.000995	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	4,4'-DDD	2.16				0.00216	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	4,4'-DDE	3.18				0.00318	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	4,4'-DDT	1.99			U	0.000995	Total DDx
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Chlordane	99.7			U	0.04985	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	alpha-Chlordane	1.99			U	0.000995	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Dieldrin	1.99			U	0.000995	
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Mirex	1.99			U	0.000995	
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Oxychlordane	3.97			U	0.001985	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	gamma-Chlordane	1.99			U	0.000995	Total Chlordane
Bay Ridge Channel	EW_23B1_CHEM_DUP04	116	1	Solids, Total			24.8			

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_002	002	1	0.265	2.01
EW_23B1_CHEM_002	002	1	0.106	0.803
EW_23B1_CHEM_002	002	1	0.779	8.03
EW_23B1_CHEM_002	002	1	0.008	0.063
EW_23B1_CHEM_002	002	1	5.83	16
EW_23B1_CHEM_002	002	1	6.95	16
EW_23B1_CHEM_002	002	1	6.21	16
EW_23B1_CHEM_002	002	1	6.26	16
EW_23B1_CHEM_002	002	1	10.9	16
EW_23B1_CHEM_002	002	1	7.86	16
EW_23B1_CHEM_002	002	1	4.63	16
EW_23B1_CHEM_002	002	1	7.65	16
EW_23B1_CHEM_002	002	1	10.3	16
EW_23B1_CHEM_002	002	1	4.58	16
EW_23B1_CHEM_002	002	1	5.8	16
EW_23B1_CHEM_002	002	1	9.47	16
EW_23B1_CHEM_002	002	1	7.36	16
EW_23B1_CHEM_002	002	1	9.44	16
EW_23B1_CHEM_002	002	1	4.55	16
EW_23B1_CHEM_002	002	1	6.26	16
EW_23B1_CHEM_002	002	1	10.3	16
EW_23B1_CHEM_002	002	1	8.82	16
EW_23B1_CHEM_002	002	1	0.586	2.41
EW_23B1_CHEM_002	002	1	10.9	29.6
EW_23B1_CHEM_002	002	1	14.6	29.6
EW_23B1_CHEM_002	002	1	14	29.6
EW_23B1_CHEM_002	002	1	10	29.6
EW_23B1_CHEM_002	002	1	12.6	29.6
EW_23B1_CHEM_002	002	1	12.5	29.6
EW_23B1_CHEM_002	002	1	12.6	29.6
EW_23B1_CHEM_002	002	1	11.4	29.6
EW_23B1_CHEM_002	002	1	9.87	29.6
EW_23B1_CHEM_002	002	1	9.87	29.6
EW_23B1_CHEM_002	002	1	1.97	1.97
EW_23B1_CHEM_002	002	1	1.97	1.97
EW_23B1_CHEM_002	002	1	1.97	1.97
EW_23B1_CHEM_002	002	1	1.97	1.97
EW_23B1_CHEM_002	002	1	1.97	1.97
EW_23B1_CHEM_002	002	1	1.97	1.97
EW_23B1_CHEM_002	002	1	99.1	99.1
EW_23B1_CHEM_002	002	1	1.97	1.97
EW_23B1_CHEM_002	002	1	1.97	1.97
EW_23B1_CHEM_002	002	1	1.97	1.97
EW_23B1_CHEM_002	002	1	3.95	3.95
EW_23B1_CHEM_002	002	1	1.97	1.97
EW_23B1_CHEM_002	002	1	0.1	0.1
EW_23B1_CHEM_005	005	1	0.17	1.29
EW_23B1_CHEM_005	005	1	0.068	0.516
EW_23B1_CHEM_005	005	1	0.5	5.16
EW_23B1_CHEM_005	005	1	0.004	0.035
EW_23B1_CHEM_005	005	1	3.69	10.1
EW_23B1_CHEM_005	005	1	4.4	10.1
EW_23B1_CHEM_005	005	1	3.93	10.1
EW_23B1_CHEM_005	005	1	3.96	10.1
EW_23B1_CHEM_005	005	1	6.92	10.1
EW_23B1_CHEM_005	005	1	4.98	10.1
EW_23B1_CHEM_005	005	1	2.93	10.1
EW_23B1_CHEM_005	005	1	4.84	10.1
EW_23B1_CHEM_005	005	1	6.51	10.1
EW_23B1_CHEM_005	005	1	2.9	10.1
EW_23B1_CHEM_005	005	1	3.67	10.1
EW_23B1_CHEM_005	005	1	6	10.1
EW_23B1_CHEM_005	005	1	4.66	10.1
EW_23B1_CHEM_005	005	1	5.98	10.1
EW_23B1_CHEM_005	005	1	2.88	10.1
EW_23B1_CHEM_005	005	1	3.96	10.1
EW_23B1_CHEM_005	005	1	6.51	10.1
EW_23B1_CHEM_005	005	1	5.58	10.1
EW_23B1_CHEM_005	005	1	0.377	1.55
EW_23B1_CHEM_005	005	1	7.39	20.1

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_005	005	1	9.91	20.1
EW_23B1_CHEM_005	005	1	9.48	20.1
EW_23B1_CHEM_005	005	1	6.8	20.1
EW_23B1_CHEM_005	005	1	8.52	20.1
EW_23B1_CHEM_005	005	1	8.46	20.1
EW_23B1_CHEM_005	005	1	8.52	20.1
EW_23B1_CHEM_005	005	1	7.76	20.1
EW_23B1_CHEM_005	005	1	6.69	20.1
EW_23B1_CHEM_005	005	1	6.69	20.1
EW_23B1_CHEM_005	005	1	1.34	1.34
EW_23B1_CHEM_005	005	1	1.34	1.34
EW_23B1_CHEM_005	005	1	1.34	1.34
EW_23B1_CHEM_005	005	1	1.34	1.34
EW_23B1_CHEM_005	005	1	1.34	1.34
EW_23B1_CHEM_005	005	1	1.34	1.34
EW_23B1_CHEM_005	005	1	67.2	67.2
EW_23B1_CHEM_005	005	1	1.34	1.34
EW_23B1_CHEM_005	005	1	1.34	1.34
EW_23B1_CHEM_005	005	1	1.34	1.34
EW_23B1_CHEM_005	005	1	2.68	2.68
EW_23B1_CHEM_005	005	1	1.34	1.34
EW_23B1_CHEM_005	005	1	0.1	0.1
EW_23B1_CHEM_009	009	1	0.155	1.18
EW_23B1_CHEM_009	009	1	0.062	0.47
EW_23B1_CHEM_009	009	1	0.456	4.7
EW_23B1_CHEM_009	009	1	0.004	0.034
EW_23B1_CHEM_009	009	1	3.47	9.5
EW_23B1_CHEM_009	009	1	4.13	9.5
EW_23B1_CHEM_009	009	1	3.7	9.5
EW_23B1_CHEM_009	009	1	3.72	9.5
EW_23B1_CHEM_009	009	1	6.5	9.5
EW_23B1_CHEM_009	009	1	4.67	9.5
EW_23B1_CHEM_009	009	1	2.76	9.5
EW_23B1_CHEM_009	009	1	4.55	9.5
EW_23B1_CHEM_009	009	1	6.12	9.5
EW_23B1_CHEM_009	009	1	2.73	9.5
EW_23B1_CHEM_009	009	1	3.45	9.5
EW_23B1_CHEM_009	009	1	5.63	9.5
EW_23B1_CHEM_009	009	1	4.38	9.5
EW_23B1_CHEM_009	009	1	5.61	9.5
EW_23B1_CHEM_009	009	1	2.71	9.5
EW_23B1_CHEM_009	009	1	3.72	9.5
EW_23B1_CHEM_009	009	1	6.12	9.5
EW_23B1_CHEM_009	009	1	5.24	9.5
EW_23B1_CHEM_009	009	1	0.343	1.41
EW_23B1_CHEM_009	009	1	6.72	18.3
EW_23B1_CHEM_009	009	1	9.01	18.3
EW_23B1_CHEM_009	009	1	8.62	18.3
EW_23B1_CHEM_009	009	1	6.19	18.3
EW_23B1_CHEM_009	009	1	7.75	18.3
EW_23B1_CHEM_009	009	1	7.7	18.3
EW_23B1_CHEM_009	009	1	7.75	18.3
EW_23B1_CHEM_009	009	1	7.06	18.3
EW_23B1_CHEM_009	009	1	6.09	18.3
EW_23B1_CHEM_009	009	1	6.09	18.3
EW_23B1_CHEM_009	009	1	1.22	1.22
EW_23B1_CHEM_009	009	1	1.22	1.22
EW_23B1_CHEM_009	009	1	1.22	1.22
EW_23B1_CHEM_009	009	1	1.22	1.22
EW_23B1_CHEM_009	009	1	1.22	1.22
EW_23B1_CHEM_009	009	1	1.22	1.22
EW_23B1_CHEM_009	009	1	61.2	61.2
EW_23B1_CHEM_009	009	1	1.22	1.22
EW_23B1_CHEM_009	009	1	1.22	1.22
EW_23B1_CHEM_009	009	1	1.22	1.22
EW_23B1_CHEM_009	009	1	2.44	2.44
EW_23B1_CHEM_009	009	1	1.22	1.22
EW_23B1_CHEM_009	009	1	0.1	0.1
EW_23B1_CHEM_013	013	1	0.117	0.887
EW_23B1_CHEM_013	013	1	0.047	0.355

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_013	013	1	0.344	3.55
EW_23B1_CHEM_013	013	1	0.003	0.026
EW_23B1_CHEM_013	013	1	2.59	7.09
EW_23B1_CHEM_013	013	1	3.09	7.09
EW_23B1_CHEM_013	013	1	2.76	7.09
EW_23B1_CHEM_013	013	1	2.78	7.09
EW_23B1_CHEM_013	013	1	4.85	7.09
EW_23B1_CHEM_013	013	1	3.49	7.09
EW_23B1_CHEM_013	013	1	2.06	7.09
EW_23B1_CHEM_013	013	1	3.4	7.09
EW_23B1_CHEM_013	013	1	4.57	7.09
EW_23B1_CHEM_013	013	1	2.04	7.09
EW_23B1_CHEM_013	013	1	2.58	7.09
EW_23B1_CHEM_013	013	1	4.21	7.09
EW_23B1_CHEM_013	013	1	3.27	7.09
EW_23B1_CHEM_013	013	1	4.19	7.09
EW_23B1_CHEM_013	013	1	2.02	7.09
EW_23B1_CHEM_013	013	1	2.78	7.09
EW_23B1_CHEM_013	013	1	4.57	7.09
EW_23B1_CHEM_013	013	1	3.92	7.09
EW_23B1_CHEM_013	013	1	0.259	1.06
EW_23B1_CHEM_013	013	1	4.95	13.4
EW_23B1_CHEM_013	013	1	6.63	13.4
EW_23B1_CHEM_013	013	1	6.35	13.4
EW_23B1_CHEM_013	013	1	4.55	13.4
EW_23B1_CHEM_013	013	1	5.7	13.4
EW_23B1_CHEM_013	013	1	5.66	13.4
EW_23B1_CHEM_013	013	1	5.7	13.4
EW_23B1_CHEM_013	013	1	5.2	13.4
EW_23B1_CHEM_013	013	1	4.48	13.4
EW_23B1_CHEM_013	013	1	4.48	13.4
EW_23B1_CHEM_013	013	1	0.896	0.896
EW_23B1_CHEM_013	013	1	0.896	0.896
EW_23B1_CHEM_013	013	1	0.896	0.896
EW_23B1_CHEM_013	013	1	0.896	0.896
EW_23B1_CHEM_013	013	1	0.896	0.896
EW_23B1_CHEM_013	013	1	0.896	0.896
EW_23B1_CHEM_013	013	1	45	45
EW_23B1_CHEM_013	013	1	0.896	0.896
EW_23B1_CHEM_013	013	1	0.896	0.896
EW_23B1_CHEM_013	013	1	0.896	0.896
EW_23B1_CHEM_013	013	1	1.79	1.79
EW_23B1_CHEM_013	013	1	0.896	0.896
EW_23B1_CHEM_013	013	1	0.1	0.1
EW_23B1_CHEM_017	017	1	0.118	0.897
EW_23B1_CHEM_017	017	1	0.047	0.359
EW_23B1_CHEM_017	017	1	0.348	3.59
EW_23B1_CHEM_017	017	1	0.003	0.024
EW_23B1_CHEM_017	017	1	2.58	7.06
EW_23B1_CHEM_017	017	1	3.07	7.06
EW_23B1_CHEM_017	017	1	2.74	7.06
EW_23B1_CHEM_017	017	1	2.77	7.06
EW_23B1_CHEM_017	017	1	4.83	7.06
EW_23B1_CHEM_017	017	1	3.47	7.06
EW_23B1_CHEM_017	017	1	2.05	7.06
EW_23B1_CHEM_017	017	1	3.38	7.06
EW_23B1_CHEM_017	017	1	4.54	7.06
EW_23B1_CHEM_017	017	1	2.02	7.06
EW_23B1_CHEM_017	017	1	2.56	7.06
EW_23B1_CHEM_017	017	1	4.18	7.06
EW_23B1_CHEM_017	017	1	3.25	7.06
EW_23B1_CHEM_017	017	1	4.17	7.06
EW_23B1_CHEM_017	017	1	2.01	7.06
EW_23B1_CHEM_017	017	1	2.77	7.06
EW_23B1_CHEM_017	017	1	4.54	7.06
EW_23B1_CHEM_017	017	1	3.9	7.06
EW_23B1_CHEM_017	017	1	0.262	1.08
EW_23B1_CHEM_017	017	1	4.81	13.1
EW_23B1_CHEM_017	017	1	6.45	13.1
EW_23B1_CHEM_017	017	1	6.17	13.1

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_017	017	1	4.43	13.1
EW_23B1_CHEM_017	017	1	5.55	13.1
EW_23B1_CHEM_017	017	1	5.51	13.1
EW_23B1_CHEM_017	017	1	5.55	13.1
EW_23B1_CHEM_017	017	1	5.06	13.1
EW_23B1_CHEM_017	017	1	4.36	13.1
EW_23B1_CHEM_017	017	1	4.36	13.1
EW_23B1_CHEM_017	017	1	0.872	0.872
EW_23B1_CHEM_017	017	1	0.872	0.872
EW_23B1_CHEM_017	017	1	0.872	0.872
EW_23B1_CHEM_017	017	1	0.872	0.872
EW_23B1_CHEM_017	017	1	0.872	0.872
EW_23B1_CHEM_017	017	1	0.872	0.872
EW_23B1_CHEM_017	017	1	43.8	43.8
EW_23B1_CHEM_017	017	1	0.872	0.872
EW_23B1_CHEM_017	017	1	0.872	0.872
EW_23B1_CHEM_017	017	1	0.872	0.872
EW_23B1_CHEM_017	017	1	1.74	1.74
EW_23B1_CHEM_017	017	1	0.872	0.872
EW_23B1_CHEM_017	017	1	0.1	0.1
EW_23B1_CHEM_021	021	1	0.089	0.674
EW_23B1_CHEM_021	021	1	0.036	0.27
EW_23B1_CHEM_021	021	1	0.261	2.7
EW_23B1_CHEM_021	021	1	0.002	0.016
EW_23B1_CHEM_021	021	1	1.93	5.28
EW_23B1_CHEM_021	021	1	2.3	5.28
EW_23B1_CHEM_021	021	1	2.05	5.28
EW_23B1_CHEM_021	021	1	2.07	5.28
EW_23B1_CHEM_021	021	1	3.61	5.28
EW_23B1_CHEM_021	021	1	2.6	5.28
EW_23B1_CHEM_021	021	1	1.53	5.28
EW_23B1_CHEM_021	021	1	2.53	5.28
EW_23B1_CHEM_021	021	1	3.4	5.28
EW_23B1_CHEM_021	021	1	1.52	5.28
EW_23B1_CHEM_021	021	1	1.92	5.28
EW_23B1_CHEM_021	021	1	3.13	5.28
EW_23B1_CHEM_021	021	1	2.43	5.28
EW_23B1_CHEM_021	021	1	3.12	5.28
EW_23B1_CHEM_021	021	1	1.5	5.28
EW_23B1_CHEM_021	021	1	2.07	5.28
EW_23B1_CHEM_021	021	1	3.4	5.28
EW_23B1_CHEM_021	021	1	2.92	5.28
EW_23B1_CHEM_021	021	1	0.197	0.809
EW_23B1_CHEM_021	021	1	3.62	9.84
EW_23B1_CHEM_021	021	1	4.85	9.84
EW_23B1_CHEM_021	021	1	4.64	9.84
EW_23B1_CHEM_021	021	1	3.33	9.84
EW_23B1_CHEM_021	021	1	4.17	9.84
EW_23B1_CHEM_021	021	1	4.14	9.84
EW_23B1_CHEM_021	021	1	4.17	9.84
EW_23B1_CHEM_021	021	1	3.8	9.84
EW_23B1_CHEM_021	021	1	3.28	9.84
EW_23B1_CHEM_021	021	1	3.28	9.84
EW_23B1_CHEM_021	021	1	0.656	0.656
EW_23B1_CHEM_021	021	1	0.656	0.656
EW_23B1_CHEM_021	021	1	0.656	0.656
EW_23B1_CHEM_021	021	1	0.656	0.656
EW_23B1_CHEM_021	021	1	0.656	0.656
EW_23B1_CHEM_021	021	1	0.656	0.656
EW_23B1_CHEM_021	021	1	32.9	32.9
EW_23B1_CHEM_021	021	1	0.656	0.656
EW_23B1_CHEM_021	021	1	0.656	0.656
EW_23B1_CHEM_021	021	1	0.656	0.656
EW_23B1_CHEM_021	021	1	1.31	1.31
EW_23B1_CHEM_021	021	1	0.656	0.656
EW_23B1_CHEM_021	021	1	0.1	0.1
EW_23B1_CHEM_025	025	1	0.087	0.656
EW_23B1_CHEM_025	025	1	0.035	0.262
EW_23B1_CHEM_025	025	1	0.255	2.62
EW_23B1_CHEM_025	025	1	0.002	0.014

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_025	025	1	1.9	5.2
EW_23B1_CHEM_025	025	1	2.26	5.2
EW_23B1_CHEM_025	025	1	2.02	5.2
EW_23B1_CHEM_025	025	1	2.04	5.2
EW_23B1_CHEM_025	025	1	3.56	5.2
EW_23B1_CHEM_025	025	1	2.56	5.2
EW_23B1_CHEM_025	025	1	1.51	5.2
EW_23B1_CHEM_025	025	1	2.49	5.2
EW_23B1_CHEM_025	025	1	3.35	5.2
EW_23B1_CHEM_025	025	1	1.49	5.2
EW_23B1_CHEM_025	025	1	1.89	5.2
EW_23B1_CHEM_025	025	1	3.08	5.2
EW_23B1_CHEM_025	025	1	2.4	5.2
EW_23B1_CHEM_025	025	1	3.07	5.2
EW_23B1_CHEM_025	025	1	1.48	5.2
EW_23B1_CHEM_025	025	1	2.04	5.2
EW_23B1_CHEM_025	025	1	3.35	5.2
EW_23B1_CHEM_025	025	1	2.87	5.2
EW_23B1_CHEM_025	025	1	0.192	0.788
EW_23B1_CHEM_025	025	1	3.66	9.94
EW_23B1_CHEM_025	025	1	4.9	9.94
EW_23B1_CHEM_025	025	1	4.69	9.94
EW_23B1_CHEM_025	025	1	3.37	9.94
EW_23B1_CHEM_025	025	1	4.22	9.94
EW_23B1_CHEM_025	025	1	4.19	9.94
EW_23B1_CHEM_025	025	1	4.22	9.94
EW_23B1_CHEM_025	025	1	3.84	9.94
EW_23B1_CHEM_025	025	1	3.31	9.94
EW_23B1_CHEM_025	025	1	3.31	9.94
EW_23B1_CHEM_025	025	1	0.132	0.132
EW_23B1_CHEM_025	025	1	0.132	0.132
EW_23B1_CHEM_025	025	1	0.132	0.132
EW_23B1_CHEM_025	025	1	0.132	0.132
EW_23B1_CHEM_025	025	1	0.132	0.132
EW_23B1_CHEM_025	025	1	0.132	0.132
EW_23B1_CHEM_025	025	1	6.66	6.66
EW_23B1_CHEM_025	025	1	0.132	0.132
EW_23B1_CHEM_025	025	1	0.132	0.132
EW_23B1_CHEM_025	025	1	0.132	0.132
EW_23B1_CHEM_025	025	1	0.265	0.265
EW_23B1_CHEM_025	025	1	0.132	0.132
EW_23B1_CHEM_025	025	1	0.1	0.1
EW_23B1_CHEM_029	029	1	0.124	0.936
EW_23B1_CHEM_029	029	1	0.049	0.374
EW_23B1_CHEM_029	029	1	0.363	3.74
EW_23B1_CHEM_029	029	1	0.003	0.027
EW_23B1_CHEM_029	029	1	2.69	7.38
EW_23B1_CHEM_029	029	1	3.21	7.38
EW_23B1_CHEM_029	029	1	2.87	7.38
EW_23B1_CHEM_029	029	1	2.89	7.38
EW_23B1_CHEM_029	029	1	5.05	7.38
EW_23B1_CHEM_029	029	1	3.63	7.38
EW_23B1_CHEM_029	029	1	2.14	7.38
EW_23B1_CHEM_029	029	1	3.54	7.38
EW_23B1_CHEM_029	029	1	4.75	7.38
EW_23B1_CHEM_029	029	1	2.12	7.38
EW_23B1_CHEM_029	029	1	2.68	7.38
EW_23B1_CHEM_029	029	1	4.38	7.38
EW_23B1_CHEM_029	029	1	3.4	7.38
EW_23B1_CHEM_029	029	1	4.36	7.38
EW_23B1_CHEM_029	029	1	2.1	7.38
EW_23B1_CHEM_029	029	1	2.89	7.38
EW_23B1_CHEM_029	029	1	4.75	7.38
EW_23B1_CHEM_029	029	1	4.08	7.38
EW_23B1_CHEM_029	029	1	0.273	1.12
EW_23B1_CHEM_029	029	1	5.04	13.7
EW_23B1_CHEM_029	029	1	6.75	13.7
EW_23B1_CHEM_029	029	1	6.46	13.7
EW_23B1_CHEM_029	029	1	4.63	13.7
EW_23B1_CHEM_029	029	1	5.8	13.7

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_029	029	1	5.76	13.7
EW_23B1_CHEM_029	029	1	5.8	13.7
EW_23B1_CHEM_029	029	1	5.29	13.7
EW_23B1_CHEM_029	029	1	4.56	13.7
EW_23B1_CHEM_029	029	1	4.56	13.7
EW_23B1_CHEM_029	029	1	0.912	0.912
EW_23B1_CHEM_029	029	1	0.912	0.912
EW_23B1_CHEM_029	029	1	0.912	0.912
EW_23B1_CHEM_029	029	1	0.912	0.912
EW_23B1_CHEM_029	029	1	0.912	0.912
EW_23B1_CHEM_029	029	1	0.912	0.912
EW_23B1_CHEM_029	029	1	45.8	45.8
EW_23B1_CHEM_029	029	1	0.912	0.912
EW_23B1_CHEM_029	029	1	0.912	0.912
EW_23B1_CHEM_029	029	1	0.912	0.912
EW_23B1_CHEM_029	029	1	1.82	1.82
EW_23B1_CHEM_029	029	1	0.912	0.912
EW_23B1_CHEM_029	029	1	0.1	0.1
EW_23B1_CHEM_033	033	1	0.127	0.96
EW_23B1_CHEM_033	033	1	0.051	0.384
EW_23B1_CHEM_033	033	1	0.372	3.84
EW_23B1_CHEM_033	033	1	0.004	0.029
EW_23B1_CHEM_033	033	1	2.84	7.77
EW_23B1_CHEM_033	033	1	3.38	7.77
EW_23B1_CHEM_033	033	1	3.02	7.77
EW_23B1_CHEM_033	033	1	3.04	7.77
EW_23B1_CHEM_033	033	1	5.31	7.77
EW_23B1_CHEM_033	033	1	3.82	7.77
EW_23B1_CHEM_033	033	1	2.25	7.77
EW_23B1_CHEM_033	033	1	3.72	7.77
EW_23B1_CHEM_033	033	1	5	7.77
EW_23B1_CHEM_033	033	1	2.23	7.77
EW_23B1_CHEM_033	033	1	2.82	7.77
EW_23B1_CHEM_033	033	1	4.61	7.77
EW_23B1_CHEM_033	033	1	3.58	7.77
EW_23B1_CHEM_033	033	1	4.59	7.77
EW_23B1_CHEM_033	033	1	2.21	7.77
EW_23B1_CHEM_033	033	1	3.04	7.77
EW_23B1_CHEM_033	033	1	5	7.77
EW_23B1_CHEM_033	033	1	4.29	7.77
EW_23B1_CHEM_033	033	1	0.28	1.15
EW_23B1_CHEM_033	033	1	5.2	14.1
EW_23B1_CHEM_033	033	1	6.97	14.1
EW_23B1_CHEM_033	033	1	6.67	14.1
EW_23B1_CHEM_033	033	1	4.78	14.1
EW_23B1_CHEM_033	033	1	5.99	14.1
EW_23B1_CHEM_033	033	1	5.95	14.1
EW_23B1_CHEM_033	033	1	5.99	14.1
EW_23B1_CHEM_033	033	1	5.46	14.1
EW_23B1_CHEM_033	033	1	4.71	14.1
EW_23B1_CHEM_033	033	1	4.71	14.1
EW_23B1_CHEM_033	033	1	0.942	0.942
EW_23B1_CHEM_033	033	1	0.942	0.942
EW_23B1_CHEM_033	033	1	0.942	0.942
EW_23B1_CHEM_033	033	1	0.942	0.942
EW_23B1_CHEM_033	033	1	0.942	0.942
EW_23B1_CHEM_033	033	1	0.942	0.942
EW_23B1_CHEM_033	033	1	47.3	47.3
EW_23B1_CHEM_033	033	1	0.942	0.942
EW_23B1_CHEM_033	033	1	0.942	0.942
EW_23B1_CHEM_033	033	1	0.942	0.942
EW_23B1_CHEM_033	033	1	1.88	1.88
EW_23B1_CHEM_033	033	1	0.942	0.942
EW_23B1_CHEM_033	033	1	0.1	0.1
EW_23B1_CHEM_037	037	1	0.098	0.738
EW_23B1_CHEM_037	037	1	0.039	0.295
EW_23B1_CHEM_037	037	1	0.286	2.95
EW_23B1_CHEM_037	037	1	0.003	0.023
EW_23B1_CHEM_037	037	1	2.2	6.02
EW_23B1_CHEM_037	037	1	2.62	6.02

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_037	037	1	2.34	6.02
EW_23B1_CHEM_037	037	1	2.36	6.02
EW_23B1_CHEM_037	037	1	4.11	6.02
EW_23B1_CHEM_037	037	1	2.96	6.02
EW_23B1_CHEM_037	037	1	1.74	6.02
EW_23B1_CHEM_037	037	1	2.88	6.02
EW_23B1_CHEM_037	037	1	3.87	6.02
EW_23B1_CHEM_037	037	1	1.73	6.02
EW_23B1_CHEM_037	037	1	2.18	6.02
EW_23B1_CHEM_037	037	1	3.57	6.02
EW_23B1_CHEM_037	037	1	2.77	6.02
EW_23B1_CHEM_037	037	1	3.55	6.02
EW_23B1_CHEM_037	037	1	1.71	6.02
EW_23B1_CHEM_037	037	1	2.36	6.02
EW_23B1_CHEM_037	037	1	3.87	6.02
EW_23B1_CHEM_037	037	1	3.32	6.02
EW_23B1_CHEM_037	037	1	0.216	0.886
EW_23B1_CHEM_037	037	1	4.2	11.4
EW_23B1_CHEM_037	037	1	5.63	11.4
EW_23B1_CHEM_037	037	1	5.39	11.4
EW_23B1_CHEM_037	037	1	3.86	11.4
EW_23B1_CHEM_037	037	1	4.84	11.4
EW_23B1_CHEM_037	037	1	4.81	11.4
EW_23B1_CHEM_037	037	1	4.84	11.4
EW_23B1_CHEM_037	037	1	4.41	11.4
EW_23B1_CHEM_037	037	1	3.8	11.4
EW_23B1_CHEM_037	037	1	3.8	11.4
EW_23B1_CHEM_037	037	1	0.761	0.761
EW_23B1_CHEM_037	037	1	0.761	0.761
EW_23B1_CHEM_037	037	1	0.761	0.761
EW_23B1_CHEM_037	037	1	0.761	0.761
EW_23B1_CHEM_037	037	1	0.761	0.761
EW_23B1_CHEM_037	037	1	0.761	0.761
EW_23B1_CHEM_037	037	1	38.2	38.2
EW_23B1_CHEM_037	037	1	0.761	0.761
EW_23B1_CHEM_037	037	1	0.761	0.761
EW_23B1_CHEM_037	037	1	0.761	0.761
EW_23B1_CHEM_037	037	1	1.52	1.52
EW_23B1_CHEM_037	037	1	0.761	0.761
EW_23B1_CHEM_037	037	1	0.1	0.1
EW_23B1_CHEM_041	041	1	0.089	0.677
EW_23B1_CHEM_041	041	1	0.036	0.271
EW_23B1_CHEM_041	041	1	0.262	2.71
EW_23B1_CHEM_041	041	1	0.002	0.019
EW_23B1_CHEM_041	041	1	1.99	5.46
EW_23B1_CHEM_041	041	1	2.37	5.46
EW_23B1_CHEM_041	041	1	2.12	5.46
EW_23B1_CHEM_041	041	1	2.14	5.46
EW_23B1_CHEM_041	041	1	3.73	5.46
EW_23B1_CHEM_041	041	1	2.68	5.46
EW_23B1_CHEM_041	041	1	1.58	5.46
EW_23B1_CHEM_041	041	1	2.61	5.46
EW_23B1_CHEM_041	041	1	3.51	5.46
EW_23B1_CHEM_041	041	1	1.56	5.46
EW_23B1_CHEM_041	041	1	1.98	5.46
EW_23B1_CHEM_041	041	1	3.24	5.46
EW_23B1_CHEM_041	041	1	2.52	5.46
EW_23B1_CHEM_041	041	1	3.22	5.46
EW_23B1_CHEM_041	041	1	1.55	5.46
EW_23B1_CHEM_041	041	1	2.14	5.46
EW_23B1_CHEM_041	041	1	3.51	5.46
EW_23B1_CHEM_041	041	1	3.01	5.46
EW_23B1_CHEM_041	041	1	0.198	0.812
EW_23B1_CHEM_041	041	1	3.71	10.1
EW_23B1_CHEM_041	041	1	4.97	10.1
EW_23B1_CHEM_041	041	1	4.76	10.1
EW_23B1_CHEM_041	041	1	3.42	10.1
EW_23B1_CHEM_041	041	1	4.28	10.1
EW_23B1_CHEM_041	041	1	4.25	10.1
EW_23B1_CHEM_041	041	1	4.28	10.1

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_041	041	1	3.9	10.1
EW_23B1_CHEM_041	041	1	3.36	10.1
EW_23B1_CHEM_041	041	1	3.36	10.1
EW_23B1_CHEM_041	041	1	0.672	0.672
EW_23B1_CHEM_041	041	1	0.672	0.672
EW_23B1_CHEM_041	041	1	0.672	0.672
EW_23B1_CHEM_041	041	1	0.672	0.672
EW_23B1_CHEM_041	041	1	0.672	0.672
EW_23B1_CHEM_041	041	1	0.672	0.672
EW_23B1_CHEM_041	041	1	33.7	33.7
EW_23B1_CHEM_041	041	1	0.672	0.672
EW_23B1_CHEM_041	041	1	0.672	0.672
EW_23B1_CHEM_041	041	1	0.672	0.672
EW_23B1_CHEM_041	041	1	1.34	1.34
EW_23B1_CHEM_041	041	1	0.672	0.672
EW_23B1_CHEM_041	041	1	0.1	0.1
EW_23B1_CHEM_045	045	1	0.095	0.716
EW_23B1_CHEM_045	045	1	0.038	0.286
EW_23B1_CHEM_045	045	1	0.278	2.86
EW_23B1_CHEM_045	045	1	0.003	0.02
EW_23B1_CHEM_045	045	1	2.14	5.87
EW_23B1_CHEM_045	045	1	2.55	5.87
EW_23B1_CHEM_045	045	1	2.28	5.87
EW_23B1_CHEM_045	045	1	2.3	5.87
EW_23B1_CHEM_045	045	1	4.02	5.87
EW_23B1_CHEM_045	045	1	2.89	5.87
EW_23B1_CHEM_045	045	1	1.7	5.87
EW_23B1_CHEM_045	045	1	2.81	5.87
EW_23B1_CHEM_045	045	1	3.78	5.87
EW_23B1_CHEM_045	045	1	1.68	5.87
EW_23B1_CHEM_045	045	1	2.13	5.87
EW_23B1_CHEM_045	045	1	3.48	5.87
EW_23B1_CHEM_045	045	1	2.71	5.87
EW_23B1_CHEM_045	045	1	3.47	5.87
EW_23B1_CHEM_045	045	1	1.67	5.87
EW_23B1_CHEM_045	045	1	2.3	5.87
EW_23B1_CHEM_045	045	1	3.78	5.87
EW_23B1_CHEM_045	045	1	3.24	5.87
EW_23B1_CHEM_045	045	1	0.209	0.859
EW_23B1_CHEM_045	045	1	3.91	10.6
EW_23B1_CHEM_045	045	1	5.24	10.6
EW_23B1_CHEM_045	045	1	5.02	10.6
EW_23B1_CHEM_045	045	1	3.6	10.6
EW_23B1_CHEM_045	045	1	4.5	10.6
EW_23B1_CHEM_045	045	1	4.48	10.6
EW_23B1_CHEM_045	045	1	4.5	10.6
EW_23B1_CHEM_045	045	1	4.11	10.6
EW_23B1_CHEM_045	045	1	3.54	10.6
EW_23B1_CHEM_045	045	1	3.54	10.6
EW_23B1_CHEM_045	045	1	0.142	0.142
EW_23B1_CHEM_045	045	1	0.142	0.142
EW_23B1_CHEM_045	045	1	0.142	0.142
EW_23B1_CHEM_045	045	1	0.142	0.142
EW_23B1_CHEM_045	045	1	0.142	0.142
EW_23B1_CHEM_045	045	1	0.142	0.142
EW_23B1_CHEM_045	045	1	7.11	7.11
EW_23B1_CHEM_045	045	1	0.142	0.142
EW_23B1_CHEM_045	045	1	0.142	0.142
EW_23B1_CHEM_045	045	1	0.142	0.142
EW_23B1_CHEM_045	045	1	0.283	0.283
EW_23B1_CHEM_045	045	1	0.142	0.142
EW_23B1_CHEM_045	045	1	0.1	0.1
EW_23B1_CHEM_049	049	1	0.084	0.638
EW_23B1_CHEM_049	049	1	0.034	0.255
EW_23B1_CHEM_049	049	1	0.248	2.55
EW_23B1_CHEM_049	049	1	0.002	0.018
EW_23B1_CHEM_049	049	1	1.86	5.09
EW_23B1_CHEM_049	049	1	2.21	5.09
EW_23B1_CHEM_049	049	1	1.98	5.09
EW_23B1_CHEM_049	049	1	2	5.09

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_049	049	1	3.48	5.09
EW_23B1_CHEM_049	049	1	2.5	5.09
EW_23B1_CHEM_049	049	1	1.48	5.09
EW_23B1_CHEM_049	049	1	2.44	5.09
EW_23B1_CHEM_049	049	1	3.28	5.09
EW_23B1_CHEM_049	049	1	1.46	5.09
EW_23B1_CHEM_049	049	1	1.85	5.09
EW_23B1_CHEM_049	049	1	3.02	5.09
EW_23B1_CHEM_049	049	1	2.35	5.09
EW_23B1_CHEM_049	049	1	3.01	5.09
EW_23B1_CHEM_049	049	1	1.45	5.09
EW_23B1_CHEM_049	049	1	2	5.09
EW_23B1_CHEM_049	049	1	3.28	5.09
EW_23B1_CHEM_049	049	1	2.81	5.09
EW_23B1_CHEM_049	049	1	0.186	0.766
EW_23B1_CHEM_049	049	1	3.46	9.41
EW_23B1_CHEM_049	049	1	4.64	9.41
EW_23B1_CHEM_049	049	1	4.44	9.41
EW_23B1_CHEM_049	049	1	3.19	9.41
EW_23B1_CHEM_049	049	1	3.99	9.41
EW_23B1_CHEM_049	049	1	3.96	9.41
EW_23B1_CHEM_049	049	1	3.99	9.41
EW_23B1_CHEM_049	049	1	3.64	9.41
EW_23B1_CHEM_049	049	1	3.14	9.41
EW_23B1_CHEM_049	049	1	3.14	9.41
EW_23B1_CHEM_049	049	1	0.125	0.125
EW_23B1_CHEM_049	049	1	0.125	0.125
EW_23B1_CHEM_049	049	1	0.125	0.125
EW_23B1_CHEM_049	049	1	0.125	0.125
EW_23B1_CHEM_049	049	1	0.125	0.125
EW_23B1_CHEM_049	049	1	0.125	0.125
EW_23B1_CHEM_049	049	1	6.3	6.3
EW_23B1_CHEM_049	049	1	0.125	0.125
EW_23B1_CHEM_049	049	1	0.125	0.125
EW_23B1_CHEM_049	049	1	0.125	0.125
EW_23B1_CHEM_049	049	1	0.251	0.251
EW_23B1_CHEM_049	049	1	0.125	0.125
EW_23B1_CHEM_049	049	1	0.1	0.1
EW_23B1_CHEM_092	092	1	0.085	0.644
EW_23B1_CHEM_092	092	1	0.034	0.258
EW_23B1_CHEM_092	092	1	0.25	2.58
EW_23B1_CHEM_092	092	1	0.002	0.019
EW_23B1_CHEM_092	092	1	1.92	5.26
EW_23B1_CHEM_092	092	1	2.29	5.26
EW_23B1_CHEM_092	092	1	2.04	5.26
EW_23B1_CHEM_092	092	1	2.06	5.26
EW_23B1_CHEM_092	092	1	3.6	5.26
EW_23B1_CHEM_092	092	1	2.59	5.26
EW_23B1_CHEM_092	092	1	1.52	5.26
EW_23B1_CHEM_092	092	1	2.52	5.26
EW_23B1_CHEM_092	092	1	3.39	5.26
EW_23B1_CHEM_092	092	1	1.51	5.26
EW_23B1_CHEM_092	092	1	1.91	5.26
EW_23B1_CHEM_092	092	1	3.12	5.26
EW_23B1_CHEM_092	092	1	2.42	5.26
EW_23B1_CHEM_092	092	1	3.11	5.26
EW_23B1_CHEM_092	092	1	1.5	5.26
EW_23B1_CHEM_092	092	1	2.06	5.26
EW_23B1_CHEM_092	092	1	3.39	5.26
EW_23B1_CHEM_092	092	1	2.9	5.26
EW_23B1_CHEM_092	092	1	0.188	0.773
EW_23B1_CHEM_092	092	1	3.58	9.74
EW_23B1_CHEM_092	092	1	4.8	9.74
EW_23B1_CHEM_092	092	1	4.6	9.74
EW_23B1_CHEM_092	092	1	3.3	9.74
EW_23B1_CHEM_092	092	1	4.13	9.74
EW_23B1_CHEM_092	092	1	4.1	9.74
EW_23B1_CHEM_092	092	1	4.13	9.74
EW_23B1_CHEM_092	092	1	3.76	9.74
EW_23B1_CHEM_092	092	1	3.24	9.74

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_092	092	1	3.24	9.74
EW_23B1_CHEM_092	092	1	0.13	0.13
EW_23B1_CHEM_092	092	1	0.13	0.13
EW_23B1_CHEM_092	092	1	0.13	0.13
EW_23B1_CHEM_092	092	1	0.13	0.13
EW_23B1_CHEM_092	092	1	0.13	0.13
EW_23B1_CHEM_092	092	1	0.13	0.13
EW_23B1_CHEM_092	092	1	6.52	6.52
EW_23B1_CHEM_092	092	1	0.13	0.13
EW_23B1_CHEM_092	092	1	0.13	0.13
EW_23B1_CHEM_092	092	1	0.13	0.13
EW_23B1_CHEM_092	092	1	0.26	0.26
EW_23B1_CHEM_092	092	1	0.13	0.13
EW_23B1_CHEM_092	092	1	0.1	0.1
EW_23B1_CHEM_093	093	1	0.084	0.635
EW_23B1_CHEM_093	093	1	0.034	0.254
EW_23B1_CHEM_093	093	1	0.246	2.54
EW_23B1_CHEM_093	093	1	0.002	0.017
EW_23B1_CHEM_093	093	1	1.91	5.24
EW_23B1_CHEM_093	093	1	2.28	5.24
EW_23B1_CHEM_093	093	1	2.04	5.24
EW_23B1_CHEM_093	093	1	2.05	5.24
EW_23B1_CHEM_093	093	1	3.58	5.24
EW_23B1_CHEM_093	093	1	2.58	5.24
EW_23B1_CHEM_093	093	1	1.52	5.24
EW_23B1_CHEM_093	093	1	2.51	5.24
EW_23B1_CHEM_093	093	1	3.37	5.24
EW_23B1_CHEM_093	093	1	1.5	5.24
EW_23B1_CHEM_093	093	1	1.9	5.24
EW_23B1_CHEM_093	093	1	3.1	5.24
EW_23B1_CHEM_093	093	1	2.41	5.24
EW_23B1_CHEM_093	093	1	3.1	5.24
EW_23B1_CHEM_093	093	1	1.49	5.24
EW_23B1_CHEM_093	093	1	2.05	5.24
EW_23B1_CHEM_093	093	1	3.37	5.24
EW_23B1_CHEM_093	093	1	2.89	5.24
EW_23B1_CHEM_093	093	1	0.186	0.762
EW_23B1_CHEM_093	093	1	3.51	9.54
EW_23B1_CHEM_093	093	1	4.7	9.54
EW_23B1_CHEM_093	093	1	4.5	9.54
EW_23B1_CHEM_093	093	1	3.23	9.54
EW_23B1_CHEM_093	093	1	4.04	9.54
EW_23B1_CHEM_093	093	1	4.02	9.54
EW_23B1_CHEM_093	093	1	4.04	9.54
EW_23B1_CHEM_093	093	1	3.69	9.54
EW_23B1_CHEM_093	093	1	3.18	9.54
EW_23B1_CHEM_093	093	1	3.18	9.54
EW_23B1_CHEM_093	093	1	0.127	0.127
EW_23B1_CHEM_093	093	1	0.127	0.127
EW_23B1_CHEM_093	093	1	0.127	0.127
EW_23B1_CHEM_093	093	1	0.127	0.127
EW_23B1_CHEM_093	093	1	0.127	0.127
EW_23B1_CHEM_093	093	1	0.127	0.127
EW_23B1_CHEM_093	093	1	6.38	6.38
EW_23B1_CHEM_093	093	1	0.127	0.127
EW_23B1_CHEM_093	093	1	0.127	0.127
EW_23B1_CHEM_093	093	1	0.127	0.127
EW_23B1_CHEM_093	093	1	0.254	0.254
EW_23B1_CHEM_093	093	1	0.127	0.127
EW_23B1_CHEM_093	093	1	0.1	0.1
EW_23B1_CHEM_094	094	1	0.087	0.662
EW_23B1_CHEM_094	094	1	0.035	0.265
EW_23B1_CHEM_094	094	1	0.257	2.65
EW_23B1_CHEM_094	094	1	0.002	0.017
EW_23B1_CHEM_094	094	1	2	5.47
EW_23B1_CHEM_094	094	1	2.38	5.47
EW_23B1_CHEM_094	094	1	2.13	5.47
EW_23B1_CHEM_094	094	1	2.14	5.47
EW_23B1_CHEM_094	094	1	3.74	5.47
EW_23B1_CHEM_094	094	1	2.69	5.47

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_094	094	1	1.59	5.47
EW_23B1_CHEM_094	094	1	2.62	5.47
EW_23B1_CHEM_094	094	1	3.52	5.47
EW_23B1_CHEM_094	094	1	1.57	5.47
EW_23B1_CHEM_094	094	1	1.99	5.47
EW_23B1_CHEM_094	094	1	3.24	5.47
EW_23B1_CHEM_094	094	1	2.52	5.47
EW_23B1_CHEM_094	094	1	3.23	5.47
EW_23B1_CHEM_094	094	1	1.56	5.47
EW_23B1_CHEM_094	094	1	2.14	5.47
EW_23B1_CHEM_094	094	1	3.52	5.47
EW_23B1_CHEM_094	094	1	3.02	5.47
EW_23B1_CHEM_094	094	1	0.193	0.794
EW_23B1_CHEM_094	094	1	3.81	10.3
EW_23B1_CHEM_094	094	1	5.1	10.3
EW_23B1_CHEM_094	094	1	4.88	10.3
EW_23B1_CHEM_094	094	1	3.5	10.3
EW_23B1_CHEM_094	094	1	4.38	10.3
EW_23B1_CHEM_094	094	1	4.36	10.3
EW_23B1_CHEM_094	094	1	4.38	10.3
EW_23B1_CHEM_094	094	1	4	10.3
EW_23B1_CHEM_094	094	1	3.45	10.3
EW_23B1_CHEM_094	094	1	3.45	10.3
EW_23B1_CHEM_094	094	1	0.69	0.69
EW_23B1_CHEM_094	094	1	0.69	0.69
EW_23B1_CHEM_094	094	1	0.69	0.69
EW_23B1_CHEM_094	094	1	0.69	0.69
EW_23B1_CHEM_094	094	1	0.69	0.69
EW_23B1_CHEM_094	094	1	0.69	0.69
EW_23B1_CHEM_094	094	1	34.6	34.6
EW_23B1_CHEM_094	094	1	0.69	0.69
EW_23B1_CHEM_094	094	1	0.69	0.69
EW_23B1_CHEM_094	094	1	0.69	0.69
EW_23B1_CHEM_094	094	1	1.38	1.38
EW_23B1_CHEM_094	094	1	0.69	0.69
EW_23B1_CHEM_094	094	1	0.1	0.1
EW_23B1_CHEM_095	095	1	0.093	0.704
EW_23B1_CHEM_095	095	1	0.037	0.281
EW_23B1_CHEM_095	095	1	0.273	2.81
EW_23B1_CHEM_095	095	1	0.003	0.021
EW_23B1_CHEM_095	095	1	2.05	5.62
EW_23B1_CHEM_095	095	1	2.44	5.62
EW_23B1_CHEM_095	095	1	2.18	5.62
EW_23B1_CHEM_095	095	1	2.2	5.62
EW_23B1_CHEM_095	095	1	3.84	5.62
EW_23B1_CHEM_095	095	1	2.76	5.62
EW_23B1_CHEM_095	095	1	1.63	5.62
EW_23B1_CHEM_095	095	1	2.69	5.62
EW_23B1_CHEM_095	095	1	3.62	5.62
EW_23B1_CHEM_095	095	1	1.61	5.62
EW_23B1_CHEM_095	095	1	2.04	5.62
EW_23B1_CHEM_095	095	1	3.33	5.62
EW_23B1_CHEM_095	095	1	2.59	5.62
EW_23B1_CHEM_095	095	1	3.32	5.62
EW_23B1_CHEM_095	095	1	1.6	5.62
EW_23B1_CHEM_095	095	1	2.2	5.62
EW_23B1_CHEM_095	095	1	3.62	5.62
EW_23B1_CHEM_095	095	1	3.1	5.62
EW_23B1_CHEM_095	095	1	0.205	0.844
EW_23B1_CHEM_095	095	1	3.91	10.6
EW_23B1_CHEM_095	095	1	5.25	10.6
EW_23B1_CHEM_095	095	1	5.02	10.6
EW_23B1_CHEM_095	095	1	3.6	10.6
EW_23B1_CHEM_095	095	1	4.51	10.6
EW_23B1_CHEM_095	095	1	4.48	10.6
EW_23B1_CHEM_095	095	1	4.51	10.6
EW_23B1_CHEM_095	095	1	4.11	10.6
EW_23B1_CHEM_095	095	1	3.54	10.6
EW_23B1_CHEM_095	095	1	3.54	10.6
EW_23B1_CHEM_095	095	1	0.709	0.709

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_095	095	1	0.709	0.709
EW_23B1_CHEM_095	095	1	0.709	0.709
EW_23B1_CHEM_095	095	1	0.709	0.709
EW_23B1_CHEM_095	095	1	0.709	0.709
EW_23B1_CHEM_095	095	1	0.709	0.709
EW_23B1_CHEM_095	095	1	35.6	35.6
EW_23B1_CHEM_095	095	1	0.709	0.709
EW_23B1_CHEM_095	095	1	0.709	0.709
EW_23B1_CHEM_095	095	1	0.709	0.709
EW_23B1_CHEM_095	095	1	1.42	1.42
EW_23B1_CHEM_095	095	1	0.709	0.709
EW_23B1_CHEM_095	095	1	0.1	0.1
EW_23B1_CHEM_096	096	1	0.093	0.702
EW_23B1_CHEM_096	096	1	0.037	0.281
EW_23B1_CHEM_096	096	1	0.272	2.81
EW_23B1_CHEM_096	096	1	0.003	0.021
EW_23B1_CHEM_096	096	1	1.97	5.39
EW_23B1_CHEM_096	096	1	2.35	5.39
EW_23B1_CHEM_096	096	1	2.1	5.39
EW_23B1_CHEM_096	096	1	2.11	5.39
EW_23B1_CHEM_096	096	1	2.11	5.39
EW_23B1_CHEM_096	096	1	3.69	5.39
EW_23B1_CHEM_096	096	1	2.65	5.39
EW_23B1_CHEM_096	096	1	1.56	5.39
EW_23B1_CHEM_096	096	1	2.58	5.39
EW_23B1_CHEM_096	096	1	3.47	5.39
EW_23B1_CHEM_096	096	1	1.55	5.39
EW_23B1_CHEM_096	096	1	1.96	5.39
EW_23B1_CHEM_096	096	1	3.2	5.39
EW_23B1_CHEM_096	096	1	2.49	5.39
EW_23B1_CHEM_096	096	1	3.19	5.39
EW_23B1_CHEM_096	096	1	1.54	5.39
EW_23B1_CHEM_096	096	1	2.11	5.39
EW_23B1_CHEM_096	096	1	3.47	5.39
EW_23B1_CHEM_096	096	1	2.98	5.39
EW_23B1_CHEM_096	096	1	0.205	0.842
EW_23B1_CHEM_096	096	1	3.8	10.3
EW_23B1_CHEM_096	096	1	5.1	10.3
EW_23B1_CHEM_096	096	1	4.88	10.3
EW_23B1_CHEM_096	096	1	3.5	10.3
EW_23B1_CHEM_096	096	1	4.38	10.3
EW_23B1_CHEM_096	096	1	4.36	10.3
EW_23B1_CHEM_096	096	1	4.38	10.3
EW_23B1_CHEM_096	096	1	4	10.3
EW_23B1_CHEM_096	096	1	3.45	10.3
EW_23B1_CHEM_096	096	1	3.45	10.3
EW_23B1_CHEM_096	096	1	0.138	0.138
EW_23B1_CHEM_096	096	1	0.138	0.138
EW_23B1_CHEM_096	096	1	0.138	0.138
EW_23B1_CHEM_096	096	1	0.138	0.138
EW_23B1_CHEM_096	096	1	0.138	0.138
EW_23B1_CHEM_096	096	1	6.92	6.92
EW_23B1_CHEM_096	096	1	0.138	0.138
EW_23B1_CHEM_096	096	1	0.138	0.138
EW_23B1_CHEM_096	096	1	0.138	0.138
EW_23B1_CHEM_096	096	1	0.276	0.276
EW_23B1_CHEM_096	096	1	0.138	0.138
EW_23B1_CHEM_096	096	1	0.1	0.1
EW_23B1_CHEM_097	097	1	0.095	0.723
EW_23B1_CHEM_097	097	1	0.038	0.289
EW_23B1_CHEM_097	097	1	0.28	2.89
EW_23B1_CHEM_097	097	1	0.003	0.023
EW_23B1_CHEM_097	097	1	2.14	5.85
EW_23B1_CHEM_097	097	1	2.54	5.85
EW_23B1_CHEM_097	097	1	2.28	5.85
EW_23B1_CHEM_097	097	1	2.29	5.85
EW_23B1_CHEM_097	097	1	4	5.85
EW_23B1_CHEM_097	097	1	2.88	5.85
EW_23B1_CHEM_097	097	1	1.7	5.85
EW_23B1_CHEM_097	097	1	2.8	5.85

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_097	097	1	3.77	5.85
EW_23B1_CHEM_097	097	1	1.68	5.85
EW_23B1_CHEM_097	097	1	2.12	5.85
EW_23B1_CHEM_097	097	1	3.47	5.85
EW_23B1_CHEM_097	097	1	2.7	5.85
EW_23B1_CHEM_097	097	1	3.46	5.85
EW_23B1_CHEM_097	097	1	1.67	5.85
EW_23B1_CHEM_097	097	1	2.29	5.85
EW_23B1_CHEM_097	097	1	3.77	5.85
EW_23B1_CHEM_097	097	1	3.23	5.85
EW_23B1_CHEM_097	097	1	0.211	0.867
EW_23B1_CHEM_097	097	1	4.05	11
EW_23B1_CHEM_097	097	1	5.43	11
EW_23B1_CHEM_097	097	1	5.2	11
EW_23B1_CHEM_097	097	1	3.73	11
EW_23B1_CHEM_097	097	1	4.67	11
EW_23B1_CHEM_097	097	1	4.64	11
EW_23B1_CHEM_097	097	1	4.67	11
EW_23B1_CHEM_097	097	1	4.26	11
EW_23B1_CHEM_097	097	1	3.67	11
EW_23B1_CHEM_097	097	1	3.67	11
EW_23B1_CHEM_097	097	1	0.734	0.734
EW_23B1_CHEM_097	097	1	0.734	0.734
EW_23B1_CHEM_097	097	1	0.734	0.734
EW_23B1_CHEM_097	097	1	0.734	0.734
EW_23B1_CHEM_097	097	1	0.734	0.734
EW_23B1_CHEM_097	097	1	0.734	0.734
EW_23B1_CHEM_097	097	1	36.8	36.8
EW_23B1_CHEM_097	097	1	0.734	0.734
EW_23B1_CHEM_097	097	1	0.734	0.734
EW_23B1_CHEM_097	097	1	0.734	0.734
EW_23B1_CHEM_097	097	1	1.47	1.47
EW_23B1_CHEM_097	097	1	0.734	0.734
EW_23B1_CHEM_097	097	1	0.1	0.1
EW_23B1_CHEM_098	098	1	0.099	0.747
EW_23B1_CHEM_098	098	1	0.039	0.299
EW_23B1_CHEM_098	098	1	0.29	2.99
EW_23B1_CHEM_098	098	1	0.003	0.023
EW_23B1_CHEM_098	098	1	2.11	5.79
EW_23B1_CHEM_098	098	1	2.52	5.79
EW_23B1_CHEM_098	098	1	2.25	5.79
EW_23B1_CHEM_098	098	1	2.27	5.79
EW_23B1_CHEM_098	098	1	3.96	5.79
EW_23B1_CHEM_098	098	1	2.85	5.79
EW_23B1_CHEM_098	098	1	1.68	5.79
EW_23B1_CHEM_098	098	1	2.78	5.79
EW_23B1_CHEM_098	098	1	3.73	5.79
EW_23B1_CHEM_098	098	1	1.66	5.79
EW_23B1_CHEM_098	098	1	2.1	5.79
EW_23B1_CHEM_098	098	1	3.44	5.79
EW_23B1_CHEM_098	098	1	2.67	5.79
EW_23B1_CHEM_098	098	1	3.42	5.79
EW_23B1_CHEM_098	098	1	1.65	5.79
EW_23B1_CHEM_098	098	1	2.27	5.79
EW_23B1_CHEM_098	098	1	3.73	5.79
EW_23B1_CHEM_098	098	1	3.2	5.79
EW_23B1_CHEM_098	098	1	0.218	0.897
EW_23B1_CHEM_098	098	1	4.05	11
EW_23B1_CHEM_098	098	1	5.44	11
EW_23B1_CHEM_098	098	1	5.2	11
EW_23B1_CHEM_098	098	1	3.73	11
EW_23B1_CHEM_098	098	1	4.67	11
EW_23B1_CHEM_098	098	1	4.64	11
EW_23B1_CHEM_098	098	1	4.67	11
EW_23B1_CHEM_098	098	1	4.26	11
EW_23B1_CHEM_098	098	1	3.67	11
EW_23B1_CHEM_098	098	1	3.67	11
EW_23B1_CHEM_098	098	1	0.147	0.147
EW_23B1_CHEM_098	098	1	0.147	0.147
EW_23B1_CHEM_098	098	1	0.147	0.147

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_098	098	1	0.147	0.147
EW_23B1_CHEM_098	098	1	0.147	0.147
EW_23B1_CHEM_098	098	1	0.147	0.147
EW_23B1_CHEM_098	098	1	7.37	7.37
EW_23B1_CHEM_098	098	1	0.147	0.147
EW_23B1_CHEM_098	098	1	0.147	0.147
EW_23B1_CHEM_098	098	1	0.147	0.147
EW_23B1_CHEM_098	098	1	0.294	0.294
EW_23B1_CHEM_098	098	1	0.147	0.147
EW_23B1_CHEM_098	098	1	0.1	0.1
EW_23B1_CHEM_099	099	1	0.095	0.723
EW_23B1_CHEM_099	099	1	0.038	0.289
EW_23B1_CHEM_099	099	1	0.28	2.89
EW_23B1_CHEM_099	099	1	0.003	0.02
EW_23B1_CHEM_099	099	1	2.13	5.85
EW_23B1_CHEM_099	099	1	2.54	5.85
EW_23B1_CHEM_099	099	1	2.27	5.85
EW_23B1_CHEM_099	099	1	2.29	5.85
EW_23B1_CHEM_099	099	1	4	5.85
EW_23B1_CHEM_099	099	1	2.88	5.85
EW_23B1_CHEM_099	099	1	1.7	5.85
EW_23B1_CHEM_099	099	1	2.8	5.85
EW_23B1_CHEM_099	099	1	3.76	5.85
EW_23B1_CHEM_099	099	1	1.68	5.85
EW_23B1_CHEM_099	099	1	2.12	5.85
EW_23B1_CHEM_099	099	1	3.47	5.85
EW_23B1_CHEM_099	099	1	2.7	5.85
EW_23B1_CHEM_099	099	1	3.46	5.85
EW_23B1_CHEM_099	099	1	1.67	5.85
EW_23B1_CHEM_099	099	1	2.29	5.85
EW_23B1_CHEM_099	099	1	3.76	5.85
EW_23B1_CHEM_099	099	1	3.23	5.85
EW_23B1_CHEM_099	099	1	0.211	0.867
EW_23B1_CHEM_099	099	1	4.12	11.2
EW_23B1_CHEM_099	099	1	5.52	11.2
EW_23B1_CHEM_099	099	1	5.28	11.2
EW_23B1_CHEM_099	099	1	3.79	11.2
EW_23B1_CHEM_099	099	1	4.74	11.2
EW_23B1_CHEM_099	099	1	4.71	11.2
EW_23B1_CHEM_099	099	1	4.74	11.2
EW_23B1_CHEM_099	099	1	4.33	11.2
EW_23B1_CHEM_099	099	1	3.73	11.2
EW_23B1_CHEM_099	099	1	3.73	11.2
EW_23B1_CHEM_099	099	1	0.746	0.746
EW_23B1_CHEM_099	099	1	0.746	0.746
EW_23B1_CHEM_099	099	1	0.746	0.746
EW_23B1_CHEM_099	099	1	0.746	0.746
EW_23B1_CHEM_099	099	1	0.746	0.746
EW_23B1_CHEM_099	099	1	0.746	0.746
EW_23B1_CHEM_099	099	1	37.4	37.4
EW_23B1_CHEM_099	099	1	0.746	0.746
EW_23B1_CHEM_099	099	1	0.746	0.746
EW_23B1_CHEM_099	099	1	0.746	0.746
EW_23B1_CHEM_099	099	1	1.49	1.49
EW_23B1_CHEM_099	099	1	0.746	0.746
EW_23B1_CHEM_099	099	1	0.1	0.1
EW_23B1_CHEM_100	100	1	0.118	0.895
EW_23B1_CHEM_100	100	1	0.047	0.358
EW_23B1_CHEM_100	100	1	0.347	3.58
EW_23B1_CHEM_100	100	1	0.003	0.021
EW_23B1_CHEM_100	100	1	2.67	7.31
EW_23B1_CHEM_100	100	1	3.18	7.31
EW_23B1_CHEM_100	100	1	2.84	7.31
EW_23B1_CHEM_100	100	1	2.86	7.31
EW_23B1_CHEM_100	100	1	5	7.31
EW_23B1_CHEM_100	100	1	3.6	7.31
EW_23B1_CHEM_100	100	1	2.12	7.31
EW_23B1_CHEM_100	100	1	3.5	7.31
EW_23B1_CHEM_100	100	1	4.7	7.31
EW_23B1_CHEM_100	100	1	2.1	7.31

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_100	100	1	2.65	7.31
EW_23B1_CHEM_100	100	1	4.33	7.31
EW_23B1_CHEM_100	100	1	3.37	7.31
EW_23B1_CHEM_100	100	1	4.32	7.31
EW_23B1_CHEM_100	100	1	2.08	7.31
EW_23B1_CHEM_100	100	1	2.86	7.31
EW_23B1_CHEM_100	100	1	4.7	7.31
EW_23B1_CHEM_100	100	1	4.03	7.31
EW_23B1_CHEM_100	100	1	0.261	1.07
EW_23B1_CHEM_100	100	1	5.03	13.7
EW_23B1_CHEM_100	100	1	6.75	13.7
EW_23B1_CHEM_100	100	1	6.45	13.7
EW_23B1_CHEM_100	100	1	4.63	13.7
EW_23B1_CHEM_100	100	1	5.8	13.7
EW_23B1_CHEM_100	100	1	5.76	13.7
EW_23B1_CHEM_100	100	1	5.8	13.7
EW_23B1_CHEM_100	100	1	5.29	13.7
EW_23B1_CHEM_100	100	1	4.56	13.7
EW_23B1_CHEM_100	100	1	4.56	13.7
EW_23B1_CHEM_100	100	1	0.912	0.912
EW_23B1_CHEM_100	100	1	0.912	0.912
EW_23B1_CHEM_100	100	1	0.912	0.912
EW_23B1_CHEM_100	100	1	0.912	0.912
EW_23B1_CHEM_100	100	1	0.912	0.912
EW_23B1_CHEM_100	100	1	0.912	0.912
EW_23B1_CHEM_100	100	1	45.8	45.8
EW_23B1_CHEM_100	100	1	0.912	0.912
EW_23B1_CHEM_100	100	1	0.912	0.912
EW_23B1_CHEM_100	100	1	0.912	0.912
EW_23B1_CHEM_100	100	1	1.82	1.82
EW_23B1_CHEM_100	100	1	0.912	0.912
EW_23B1_CHEM_100	100	1	0.1	0.1
EW_23B1_CHEM_101	101	1	0.12	0.907
EW_23B1_CHEM_101	101	1	0.048	0.363
EW_23B1_CHEM_101	101	1	0.352	3.63
EW_23B1_CHEM_101	101	1	0.003	0.026
EW_23B1_CHEM_101	101	1	2.65	7.26
EW_23B1_CHEM_101	101	1	3.16	7.26
EW_23B1_CHEM_101	101	1	2.82	7.26
EW_23B1_CHEM_101	101	1	2.85	7.26
EW_23B1_CHEM_101	101	1	4.97	7.26
EW_23B1_CHEM_101	101	1	3.57	7.26
EW_23B1_CHEM_101	101	1	2.11	7.26
EW_23B1_CHEM_101	101	1	3.48	7.26
EW_23B1_CHEM_101	101	1	4.68	7.26
EW_23B1_CHEM_101	101	1	2.08	7.26
EW_23B1_CHEM_101	101	1	2.64	7.26
EW_23B1_CHEM_101	101	1	4.31	7.26
EW_23B1_CHEM_101	101	1	3.35	7.26
EW_23B1_CHEM_101	101	1	4.29	7.26
EW_23B1_CHEM_101	101	1	2.07	7.26
EW_23B1_CHEM_101	101	1	2.85	7.26
EW_23B1_CHEM_101	101	1	4.68	7.26
EW_23B1_CHEM_101	101	1	4.01	7.26
EW_23B1_CHEM_101	101	1	0.265	1.09
EW_23B1_CHEM_101	101	1	5.2	14.1
EW_23B1_CHEM_101	101	1	6.98	14.1
EW_23B1_CHEM_101	101	1	6.68	14.1
EW_23B1_CHEM_101	101	1	4.79	14.1
EW_23B1_CHEM_101	101	1	6	14.1
EW_23B1_CHEM_101	101	1	5.96	14.1
EW_23B1_CHEM_101	101	1	6	14.1
EW_23B1_CHEM_101	101	1	5.47	14.1
EW_23B1_CHEM_101	101	1	4.72	14.1
EW_23B1_CHEM_101	101	1	4.72	14.1
EW_23B1_CHEM_101	101	1	0.943	0.943
EW_23B1_CHEM_101	101	1	0.943	0.943
EW_23B1_CHEM_101	101	1	0.943	0.943
EW_23B1_CHEM_101	101	1	0.943	0.943
EW_23B1_CHEM_101	101	1	0.943	0.943

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_101	101	1	0.943	0.943
EW_23B1_CHEM_101	101	1	47.3	47.3
EW_23B1_CHEM_101	101	1	0.943	0.943
EW_23B1_CHEM_101	101	1	0.943	0.943
EW_23B1_CHEM_101	101	1	0.943	0.943
EW_23B1_CHEM_101	101	1	1.89	1.89
EW_23B1_CHEM_101	101	1	0.943	0.943
EW_23B1_CHEM_101	101	1	0.1	0.1
EW_23B1_CHEM_102	102	1	0.13	0.985
EW_23B1_CHEM_102	102	1	0.052	0.394
EW_23B1_CHEM_102	102	1	0.382	3.94
EW_23B1_CHEM_102	102	1	0.004	0.03
EW_23B1_CHEM_102	102	1	2.83	7.75
EW_23B1_CHEM_102	102	1	3.37	7.75
EW_23B1_CHEM_102	102	1	3.01	7.75
EW_23B1_CHEM_102	102	1	3.04	7.75
EW_23B1_CHEM_102	102	1	5.3	7.75
EW_23B1_CHEM_102	102	1	3.81	7.75
EW_23B1_CHEM_102	102	1	2.25	7.75
EW_23B1_CHEM_102	102	1	3.71	7.75
EW_23B1_CHEM_102	102	1	3.71	7.75
EW_23B1_CHEM_102	102	1	4.99	7.75
EW_23B1_CHEM_102	102	1	2.22	7.75
EW_23B1_CHEM_102	102	1	2.81	7.75
EW_23B1_CHEM_102	102	1	4.6	7.75
EW_23B1_CHEM_102	102	1	3.57	7.75
EW_23B1_CHEM_102	102	1	4.58	7.75
EW_23B1_CHEM_102	102	1	2.21	7.75
EW_23B1_CHEM_102	102	1	3.04	7.75
EW_23B1_CHEM_102	102	1	4.99	7.75
EW_23B1_CHEM_102	102	1	4.28	7.75
EW_23B1_CHEM_102	102	1	0.288	1.18
EW_23B1_CHEM_102	102	1	5.46	14.8
EW_23B1_CHEM_102	102	1	7.31	14.8
EW_23B1_CHEM_102	102	1	7	14.8
EW_23B1_CHEM_102	102	1	5.02	14.8
EW_23B1_CHEM_102	102	1	6.28	14.8
EW_23B1_CHEM_102	102	1	6.24	14.8
EW_23B1_CHEM_102	102	1	6.28	14.8
EW_23B1_CHEM_102	102	1	5.73	14.8
EW_23B1_CHEM_102	102	1	4.94	14.8
EW_23B1_CHEM_102	102	1	4.94	14.8
EW_23B1_CHEM_102	102	1	0.988	0.988
EW_23B1_CHEM_102	102	1	0.988	0.988
EW_23B1_CHEM_102	102	1	0.988	0.988
EW_23B1_CHEM_102	102	1	0.988	0.988
EW_23B1_CHEM_102	102	1	0.988	0.988
EW_23B1_CHEM_102	102	1	0.988	0.988
EW_23B1_CHEM_102	102	1	49.6	49.6
EW_23B1_CHEM_102	102	1	0.988	0.988
EW_23B1_CHEM_102	102	1	0.988	0.988
EW_23B1_CHEM_102	102	1	0.988	0.988
EW_23B1_CHEM_102	102	1	1.98	1.98
EW_23B1_CHEM_102	102	1	0.988	0.988
EW_23B1_CHEM_102	102	1	0.1	0.1
EW_23B1_CHEM_103	103	1	0.11	0.832
EW_23B1_CHEM_103	103	1	0.044	0.333
EW_23B1_CHEM_103	103	1	0.323	3.33
EW_23B1_CHEM_103	103	1	0.003	0.025
EW_23B1_CHEM_103	103	1	2.49	6.83
EW_23B1_CHEM_103	103	1	2.97	6.83
EW_23B1_CHEM_103	103	1	2.66	6.83
EW_23B1_CHEM_103	103	1	2.68	6.83
EW_23B1_CHEM_103	103	1	4.67	6.83
EW_23B1_CHEM_103	103	1	3.36	6.83
EW_23B1_CHEM_103	103	1	1.98	6.83
EW_23B1_CHEM_103	103	1	3.27	6.83
EW_23B1_CHEM_103	103	1	4.4	6.83
EW_23B1_CHEM_103	103	1	1.96	6.83
EW_23B1_CHEM_103	103	1	2.48	6.83
EW_23B1_CHEM_103	103	1	4.05	6.83

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_103	103	1	3.15	6.83
EW_23B1_CHEM_103	103	1	4.04	6.83
EW_23B1_CHEM_103	103	1	1.95	6.83
EW_23B1_CHEM_103	103	1	2.68	6.83
EW_23B1_CHEM_103	103	1	4.4	6.83
EW_23B1_CHEM_103	103	1	3.77	6.83
EW_23B1_CHEM_103	103	1	0.243	0.998
EW_23B1_CHEM_103	103	1	4.49	12.2
EW_23B1_CHEM_103	103	1	6.02	12.2
EW_23B1_CHEM_103	103	1	5.76	12.2
EW_23B1_CHEM_103	103	1	4.13	12.2
EW_23B1_CHEM_103	103	1	5.17	12.2
EW_23B1_CHEM_103	103	1	5.14	12.2
EW_23B1_CHEM_103	103	1	5.17	12.2
EW_23B1_CHEM_103	103	1	4.72	12.2
EW_23B1_CHEM_103	103	1	4.07	12.2
EW_23B1_CHEM_103	103	1	4.07	12.2
EW_23B1_CHEM_103	103	1	0.813	0.813
EW_23B1_CHEM_103	103	1	0.813	0.813
EW_23B1_CHEM_103	103	1	0.813	0.813
EW_23B1_CHEM_103	103	1	0.813	0.813
EW_23B1_CHEM_103	103	1	0.813	0.813
EW_23B1_CHEM_103	103	1	40.8	40.8
EW_23B1_CHEM_103	103	1	0.813	0.813
EW_23B1_CHEM_103	103	1	0.813	0.813
EW_23B1_CHEM_103	103	1	0.813	0.813
EW_23B1_CHEM_103	103	1	1.63	1.63
EW_23B1_CHEM_103	103	1	0.813	0.813
EW_23B1_CHEM_103	103	1	0.1	0.1
EW_23B1_CHEM_104	104	1	0.083	0.628
EW_23B1_CHEM_104	104	1	0.033	0.251
EW_23B1_CHEM_104	104	1	0.244	2.51
EW_23B1_CHEM_104	104	1	0.002	0.016
EW_23B1_CHEM_104	104	1	1.79	4.92
EW_23B1_CHEM_104	104	1	2.14	4.92
EW_23B1_CHEM_104	104	1	1.91	4.92
EW_23B1_CHEM_104	104	1	1.93	4.92
EW_23B1_CHEM_104	104	1	3.36	4.92
EW_23B1_CHEM_104	104	1	2.42	4.92
EW_23B1_CHEM_104	104	1	1.42	4.92
EW_23B1_CHEM_104	104	1	2.35	4.92
EW_23B1_CHEM_104	104	1	3.16	4.92
EW_23B1_CHEM_104	104	1	1.41	4.92
EW_23B1_CHEM_104	104	1	1.78	4.92
EW_23B1_CHEM_104	104	1	2.92	4.92
EW_23B1_CHEM_104	104	1	2.27	4.92
EW_23B1_CHEM_104	104	1	2.9	4.92
EW_23B1_CHEM_104	104	1	1.4	4.92
EW_23B1_CHEM_104	104	1	1.93	4.92
EW_23B1_CHEM_104	104	1	3.16	4.92
EW_23B1_CHEM_104	104	1	2.71	4.92
EW_23B1_CHEM_104	104	1	0.183	0.753
EW_23B1_CHEM_104	104	1	3.35	9.11
EW_23B1_CHEM_104	104	1	4.49	9.11
EW_23B1_CHEM_104	104	1	4.3	9.11
EW_23B1_CHEM_104	104	1	3.08	9.11
EW_23B1_CHEM_104	104	1	3.86	9.11
EW_23B1_CHEM_104	104	1	3.84	9.11
EW_23B1_CHEM_104	104	1	3.86	9.11
EW_23B1_CHEM_104	104	1	3.52	9.11
EW_23B1_CHEM_104	104	1	3.04	9.11
EW_23B1_CHEM_104	104	1	3.04	9.11
EW_23B1_CHEM_104	104	1	0.121	0.121
EW_23B1_CHEM_104	104	1	0.121	0.121
EW_23B1_CHEM_104	104	1	0.121	0.121
EW_23B1_CHEM_104	104	1	0.121	0.121
EW_23B1_CHEM_104	104	1	0.121	0.121
EW_23B1_CHEM_104	104	1	0.121	0.121
EW_23B1_CHEM_104	104	1	6.1	6.1

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_104	104	1	0.121	0.121
EW_23B1_CHEM_104	104	1	0.121	0.121
EW_23B1_CHEM_104	104	1	0.121	0.121
EW_23B1_CHEM_104	104	1	0.243	0.243
EW_23B1_CHEM_104	104	1	0.121	0.121
EW_23B1_CHEM_104	104	1	0.1	0.1
EW_23B1_CHEM_105	105	1	0.124	0.942
EW_23B1_CHEM_105	105	1	0.05	0.377
EW_23B1_CHEM_105	105	1	0.366	3.77
EW_23B1_CHEM_105	105	1	0.004	0.029
EW_23B1_CHEM_105	105	1	2.74	7.51
EW_23B1_CHEM_105	105	1	3.27	7.51
EW_23B1_CHEM_105	105	1	2.92	7.51
EW_23B1_CHEM_105	105	1	2.94	7.51
EW_23B1_CHEM_105	105	1	5.14	7.51
EW_23B1_CHEM_105	105	1	3.7	7.51
EW_23B1_CHEM_105	105	1	2.18	7.51
EW_23B1_CHEM_105	105	1	3.6	7.51
EW_23B1_CHEM_105	105	1	4.84	7.51
EW_23B1_CHEM_105	105	1	2.16	7.51
EW_23B1_CHEM_105	105	1	2.73	7.51
EW_23B1_CHEM_105	105	1	4.45	7.51
EW_23B1_CHEM_105	105	1	3.46	7.51
EW_23B1_CHEM_105	105	1	4.44	7.51
EW_23B1_CHEM_105	105	1	2.14	7.51
EW_23B1_CHEM_105	105	1	2.94	7.51
EW_23B1_CHEM_105	105	1	4.84	7.51
EW_23B1_CHEM_105	105	1	4.15	7.51
EW_23B1_CHEM_105	105	1	0.275	1.13
EW_23B1_CHEM_105	105	1	5.18	14.1
EW_23B1_CHEM_105	105	1	6.94	14.1
EW_23B1_CHEM_105	105	1	6.64	14.1
EW_23B1_CHEM_105	105	1	4.76	14.1
EW_23B1_CHEM_105	105	1	5.96	14.1
EW_23B1_CHEM_105	105	1	5.93	14.1
EW_23B1_CHEM_105	105	1	5.96	14.1
EW_23B1_CHEM_105	105	1	5.44	14.1
EW_23B1_CHEM_105	105	1	4.69	14.1
EW_23B1_CHEM_105	105	1	4.69	14.1
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	47.1	47.1
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	1.88	1.88
EW_23B1_CHEM_105	105	1	0.938	0.938
EW_23B1_CHEM_105	105	1	0.1	0.1
EW_23B1_CHEM_106	106	1	0.096	0.727
EW_23B1_CHEM_106	106	1	0.038	0.291
EW_23B1_CHEM_106	106	1	0.282	2.91
EW_23B1_CHEM_106	106	1	0.002	0.016
EW_23B1_CHEM_106	106	1	41.8	115
EW_23B1_CHEM_106	106	1	49.8	115
EW_23B1_CHEM_106	106	1	44.6	115
EW_23B1_CHEM_106	106	1	44.9	115
EW_23B1_CHEM_106	106	1	78.4	115
EW_23B1_CHEM_106	106	1	56.4	115
EW_23B1_CHEM_106	106	1	33.2	115
EW_23B1_CHEM_106	106	1	54.9	115
EW_23B1_CHEM_106	106	1	73.8	115
EW_23B1_CHEM_106	106	1	32.9	115
EW_23B1_CHEM_106	106	1	41.6	115
EW_23B1_CHEM_106	106	1	68	115
EW_23B1_CHEM_106	106	1	52.8	115
EW_23B1_CHEM_106	106	1	67.7	115

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_106	106	1	32.7	115
EW_23B1_CHEM_106	106	1	44.9	115
EW_23B1_CHEM_106	106	1	73.8	115
EW_23B1_CHEM_106	106	1	63.3	115
EW_23B1_CHEM_106	106	1	0.212	0.872
EW_23B1_CHEM_106	106	1	3.82	10.4
EW_23B1_CHEM_106	106	1	5.12	10.4
EW_23B1_CHEM_106	106	1	4.9	10.4
EW_23B1_CHEM_106	106	1	3.52	10.4
EW_23B1_CHEM_106	106	1	4.4	10.4
EW_23B1_CHEM_106	106	1	4.38	10.4
EW_23B1_CHEM_106	106	1	4.4	10.4
EW_23B1_CHEM_106	106	1	4.02	10.4
EW_23B1_CHEM_106	106	1	3.46	10.4
EW_23B1_CHEM_106	106	1	3.46	10.4
EW_23B1_CHEM_106	106	1	0.692	0.692
EW_23B1_CHEM_106	106	1	0.692	0.692
EW_23B1_CHEM_106	106	1	0.692	0.692
EW_23B1_CHEM_106	106	1	0.692	0.692
EW_23B1_CHEM_106	106	1	0.692	0.692
EW_23B1_CHEM_106	106	1	0.692	0.692
EW_23B1_CHEM_106	106	1	0.692	0.692
EW_23B1_CHEM_106	106	1	0.692	0.692
EW_23B1_CHEM_106	106	1	1.38	1.38
EW_23B1_CHEM_106	106	1	0.692	0.692
EW_23B1_CHEM_106	106	1	0.1	0.1
EW_23B1_CHEM_107	107	1	0.086	0.647
EW_23B1_CHEM_107	107	1	0.034	0.259
EW_23B1_CHEM_107	107	1	0.251	2.59
EW_23B1_CHEM_107	107	1	0.002	0.016
EW_23B1_CHEM_107	107	1	1.93	5.3
EW_23B1_CHEM_107	107	1	2.3	5.3
EW_23B1_CHEM_107	107	1	2.06	5.3
EW_23B1_CHEM_107	107	1	2.08	5.3
EW_23B1_CHEM_107	107	1	3.62	5.3
EW_23B1_CHEM_107	107	1	2.61	5.3
EW_23B1_CHEM_107	107	1	1.54	5.3
EW_23B1_CHEM_107	107	1	2.54	5.3
EW_23B1_CHEM_107	107	1	3.41	5.3
EW_23B1_CHEM_107	107	1	1.52	5.3
EW_23B1_CHEM_107	107	1	1.92	5.3
EW_23B1_CHEM_107	107	1	3.14	5.3
EW_23B1_CHEM_107	107	1	2.44	5.3
EW_23B1_CHEM_107	107	1	3.13	5.3
EW_23B1_CHEM_107	107	1	1.51	5.3
EW_23B1_CHEM_107	107	1	2.08	5.3
EW_23B1_CHEM_107	107	1	3.41	5.3
EW_23B1_CHEM_107	107	1	2.92	5.3
EW_23B1_CHEM_107	107	1	0.189	0.777
EW_23B1_CHEM_107	107	1	3.5	9.52
EW_23B1_CHEM_107	107	1	4.7	9.52
EW_23B1_CHEM_107	107	1	4.5	9.52
EW_23B1_CHEM_107	107	1	3.22	9.52
EW_23B1_CHEM_107	107	1	4.04	9.52
EW_23B1_CHEM_107	107	1	4.01	9.52
EW_23B1_CHEM_107	107	1	4.04	9.52
EW_23B1_CHEM_107	107	1	3.68	9.52
EW_23B1_CHEM_107	107	1	3.17	9.52
EW_23B1_CHEM_107	107	1	3.17	9.52
EW_23B1_CHEM_107	107	1	0.635	0.635
EW_23B1_CHEM_107	107	1	0.635	0.635
EW_23B1_CHEM_107	107	1	0.635	0.635
EW_23B1_CHEM_107	107	1	0.635	0.635
EW_23B1_CHEM_107	107	1	0.635	0.635
EW_23B1_CHEM_107	107	1	0.635	0.635
EW_23B1_CHEM_107	107	1	31.9	31.9
EW_23B1_CHEM_107	107	1	0.635	0.635
EW_23B1_CHEM_107	107	1	0.635	0.635

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_107	107	1	0.635	0.635
EW_23B1_CHEM_107	107	1	1.27	1.27
EW_23B1_CHEM_107	107	1	0.635	0.635
EW_23B1_CHEM_107	107	1	0.1	0.1
EW_23B1_CHEM_108	108	1	0.103	0.783
EW_23B1_CHEM_108	108	1	0.041	0.313
EW_23B1_CHEM_108	108	1	0.304	3.13
EW_23B1_CHEM_108	108	1	0.03	0.234
EW_23B1_CHEM_108	108	1	2.22	6.09
EW_23B1_CHEM_108	108	1	2.65	6.09
EW_23B1_CHEM_108	108	1	2.37	6.09
EW_23B1_CHEM_108	108	1	2.39	6.09
EW_23B1_CHEM_108	108	1	4.16	6.09
EW_23B1_CHEM_108	108	1	3	6.09
EW_23B1_CHEM_108	108	1	1.76	6.09
EW_23B1_CHEM_108	108	1	2.92	6.09
EW_23B1_CHEM_108	108	1	3.92	6.09
EW_23B1_CHEM_108	108	1	1.75	6.09
EW_23B1_CHEM_108	108	1	2.21	6.09
EW_23B1_CHEM_108	108	1	3.61	6.09
EW_23B1_CHEM_108	108	2	14	30.4
EW_23B1_CHEM_108	108	1	3.6	6.09
EW_23B1_CHEM_108	108	1	1.74	6.09
EW_23B1_CHEM_108	108	1	2.39	6.09
EW_23B1_CHEM_108	108	1	3.92	6.09
EW_23B1_CHEM_108	108	2	16.8	30.4
EW_23B1_CHEM_108	108	1	0.229	0.94
EW_23B1_CHEM_108	108	1	4.3	11.7
EW_23B1_CHEM_108	108	1	5.77	11.7
EW_23B1_CHEM_108	108	1	5.52	11.7
EW_23B1_CHEM_108	108	1	3.96	11.7
EW_23B1_CHEM_108	108	1	4.96	11.7
EW_23B1_CHEM_108	108	1	4.93	11.7
EW_23B1_CHEM_108	108	1	4.96	11.7
EW_23B1_CHEM_108	108	1	4.52	11.7
EW_23B1_CHEM_108	108	1	3.9	11.7
EW_23B1_CHEM_108	108	1	3.9	11.7
EW_23B1_CHEM_108	108	1	0.779	0.779
EW_23B1_CHEM_108	108	1	0.779	0.779
EW_23B1_CHEM_108	108	1	0.779	0.779
EW_23B1_CHEM_108	108	1	0.779	0.779
EW_23B1_CHEM_108	108	1	0.779	0.779
EW_23B1_CHEM_108	108	1	0.779	0.779
EW_23B1_CHEM_108	108	1	39.1	39.1
EW_23B1_CHEM_108	108	1	0.779	0.779
EW_23B1_CHEM_108	108	1	0.779	0.779
EW_23B1_CHEM_108	108	1	0.779	0.779
EW_23B1_CHEM_108	108	1	1.56	1.56
EW_23B1_CHEM_108	108	1	0.779	0.779
EW_23B1_CHEM_108	108	1	0.1	0.1
EW_23B1_CHEM_109	109	1	0.112	0.848
EW_23B1_CHEM_109	109	1	0.045	0.339
EW_23B1_CHEM_109	109	1	0.329	3.39
EW_23B1_CHEM_109	109	1	0.003	0.023
EW_23B1_CHEM_109	109	1	2.4	6.57
EW_23B1_CHEM_109	109	1	2.86	6.57
EW_23B1_CHEM_109	109	1	2.56	6.57
EW_23B1_CHEM_109	109	1	2.58	6.57
EW_23B1_CHEM_109	109	1	4.5	6.57
EW_23B1_CHEM_109	109	1	3.23	6.57
EW_23B1_CHEM_109	109	1	1.91	6.57
EW_23B1_CHEM_109	109	1	3.15	6.57
EW_23B1_CHEM_109	109	1	4.23	6.57
EW_23B1_CHEM_109	109	1	1.89	6.57
EW_23B1_CHEM_109	109	1	2.39	6.57
EW_23B1_CHEM_109	109	1	3.9	6.57
EW_23B1_CHEM_109	109	1	3.03	6.57
EW_23B1_CHEM_109	109	1	3.88	6.57
EW_23B1_CHEM_109	109	1	1.87	6.57
EW_23B1_CHEM_109	109	1	2.58	6.57

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_109	109	1	4.23	6.57
EW_23B1_CHEM_109	109	1	3.63	6.57
EW_23B1_CHEM_109	109	1	0.248	1.02
EW_23B1_CHEM_109	109	1	4.65	12.6
EW_23B1_CHEM_109	109	1	6.23	12.6
EW_23B1_CHEM_109	109	1	5.96	12.6
EW_23B1_CHEM_109	109	1	4.28	12.6
EW_23B1_CHEM_109	109	1	5.36	12.6
EW_23B1_CHEM_109	109	1	5.32	12.6
EW_23B1_CHEM_109	109	1	5.36	12.6
EW_23B1_CHEM_109	109	1	4.88	12.6
EW_23B1_CHEM_109	109	1	4.21	12.6
EW_23B1_CHEM_109	109	1	4.21	12.6
EW_23B1_CHEM_109	109	1	0.842	0.842
EW_23B1_CHEM_109	109	1	0.842	0.842
EW_23B1_CHEM_109	109	1	0.842	0.842
EW_23B1_CHEM_109	109	1	0.842	0.842
EW_23B1_CHEM_109	109	1	0.842	0.842
EW_23B1_CHEM_109	109	1	0.842	0.842
EW_23B1_CHEM_109	109	1	42.3	42.3
EW_23B1_CHEM_109	109	1	0.842	0.842
EW_23B1_CHEM_109	109	1	0.842	0.842
EW_23B1_CHEM_109	109	1	0.842	0.842
EW_23B1_CHEM_109	109	1	1.68	1.68
EW_23B1_CHEM_109	109	1	0.842	0.842
EW_23B1_CHEM_109	109	1	0.1	0.1
EW_23B1_CHEM_110	110	1	0.163	1.23
EW_23B1_CHEM_110	110	1	0.065	0.493
EW_23B1_CHEM_110	110	1	0.478	4.93
EW_23B1_CHEM_110	110	1	0.004	0.035
EW_23B1_CHEM_110	110	1	3.72	10.2
EW_23B1_CHEM_110	110	1	4.43	10.2
EW_23B1_CHEM_110	110	1	3.96	10.2
EW_23B1_CHEM_110	110	1	4	10.2
EW_23B1_CHEM_110	110	1	6.97	10.2
EW_23B1_CHEM_110	110	1	5.02	10.2
EW_23B1_CHEM_110	110	1	2.96	10.2
EW_23B1_CHEM_110	110	1	4.88	10.2
EW_23B1_CHEM_110	110	1	6.56	10.2
EW_23B1_CHEM_110	110	1	2.92	10.2
EW_23B1_CHEM_110	110	1	3.7	10.2
EW_23B1_CHEM_110	110	1	6.04	10.2
EW_23B1_CHEM_110	110	1	4.7	10.2
EW_23B1_CHEM_110	110	1	6.02	10.2
EW_23B1_CHEM_110	110	1	2.9	10.2
EW_23B1_CHEM_110	110	1	4	10.2
EW_23B1_CHEM_110	110	1	6.56	10.2
EW_23B1_CHEM_110	110	1	5.63	10.2
EW_23B1_CHEM_110	110	1	0.36	1.48
EW_23B1_CHEM_110	110	1	6.65	18.1
EW_23B1_CHEM_110	110	1	8.92	18.1
EW_23B1_CHEM_110	110	1	8.53	18.1
EW_23B1_CHEM_110	110	1	6.12	18.1
EW_23B1_CHEM_110	110	1	7.66	18.1
EW_23B1_CHEM_110	110	1	7.62	18.1
EW_23B1_CHEM_110	110	1	7.66	18.1
EW_23B1_CHEM_110	110	1	6.99	18.1
EW_23B1_CHEM_110	110	1	6.03	18.1
EW_23B1_CHEM_110	110	1	6.03	18.1
EW_23B1_CHEM_110	110	1	1.2	1.2
EW_23B1_CHEM_110	110	1	1.2	1.2
EW_23B1_CHEM_110	110	1	1.2	1.2
EW_23B1_CHEM_110	110	1	1.2	1.2
EW_23B1_CHEM_110	110	1	1.2	1.2
EW_23B1_CHEM_110	110	1	1.2	1.2
EW_23B1_CHEM_110	110	1	60.5	60.5
EW_23B1_CHEM_110	110	1	1.2	1.2
EW_23B1_CHEM_110	110	1	1.2	1.2
EW_23B1_CHEM_110	110	1	1.2	1.2
EW_23B1_CHEM_110	110	1	2.41	2.41

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_110	110	1	1.2	1.2
EW_23B1_CHEM_110	110	1	0.1	0.1
EW_23B1_CHEM_111	111	1	0.113	0.853
EW_23B1_CHEM_111	111	1	0.045	0.341
EW_23B1_CHEM_111	111	1	0.331	3.41
EW_23B1_CHEM_111	111	1	0.002	0.018
EW_23B1_CHEM_111	111	1	2.52	6.9
EW_23B1_CHEM_111	111	1	3	6.9
EW_23B1_CHEM_111	111	1	2.68	6.9
EW_23B1_CHEM_111	111	1	2.7	6.9
EW_23B1_CHEM_111	111	1	4.72	6.9
EW_23B1_CHEM_111	111	1	3.39	6.9
EW_23B1_CHEM_111	111	1	2	6.9
EW_23B1_CHEM_111	111	1	3.3	6.9
EW_23B1_CHEM_111	111	1	4.44	6.9
EW_23B1_CHEM_111	111	1	1.98	6.9
EW_23B1_CHEM_111	111	1	2.5	6.9
EW_23B1_CHEM_111	111	1	4.09	6.9
EW_23B1_CHEM_111	111	1	3.18	6.9
EW_23B1_CHEM_111	111	1	4.08	6.9
EW_23B1_CHEM_111	111	1	1.96	6.9
EW_23B1_CHEM_111	111	1	2.7	6.9
EW_23B1_CHEM_111	111	1	4.44	6.9
EW_23B1_CHEM_111	111	1	3.81	6.9
EW_23B1_CHEM_111	111	1	0.249	1.02
EW_23B1_CHEM_111	111	1	4.43	12
EW_23B1_CHEM_111	111	1	5.94	12
EW_23B1_CHEM_111	111	1	5.68	12
EW_23B1_CHEM_111	111	1	4.08	12
EW_23B1_CHEM_111	111	1	5.1	12
EW_23B1_CHEM_111	111	1	5.07	12
EW_23B1_CHEM_111	111	1	5.1	12
EW_23B1_CHEM_111	111	1	4.66	12
EW_23B1_CHEM_111	111	1	4.01	12
EW_23B1_CHEM_111	111	1	4.01	12
EW_23B1_CHEM_111	111	1	0.803	0.803
EW_23B1_CHEM_111	111	1	0.803	0.803
EW_23B1_CHEM_111	111	1	0.803	0.803
EW_23B1_CHEM_111	111	1	0.803	0.803
EW_23B1_CHEM_111	111	1	0.803	0.803
EW_23B1_CHEM_111	111	1	0.803	0.803
EW_23B1_CHEM_111	111	1	40.3	40.3
EW_23B1_CHEM_111	111	1	0.803	0.803
EW_23B1_CHEM_111	111	1	0.803	0.803
EW_23B1_CHEM_111	111	1	0.803	0.803
EW_23B1_CHEM_111	111	1	1.6	1.6
EW_23B1_CHEM_111	111	1	0.803	0.803
EW_23B1_CHEM_111	111	1	0.1	0.1
EW_23B1_CHEM_112	112	1	0.154	1.17
EW_23B1_CHEM_112	112	1	0.062	0.467
EW_23B1_CHEM_112	112	1	0.453	4.67
EW_23B1_CHEM_112	112	1	0.005	0.038
EW_23B1_CHEM_112	112	1	3.43	9.41
EW_23B1_CHEM_112	112	1	4.09	9.41
EW_23B1_CHEM_112	112	1	3.66	9.41
EW_23B1_CHEM_112	112	1	3.69	9.41
EW_23B1_CHEM_112	112	1	6.44	9.41
EW_23B1_CHEM_112	112	1	4.63	9.41
EW_23B1_CHEM_112	112	1	2.73	9.41
EW_23B1_CHEM_112	112	1	4.51	9.41
EW_23B1_CHEM_112	112	1	6.06	9.41
EW_23B1_CHEM_112	112	1	2.7	9.41
EW_23B1_CHEM_112	112	1	3.42	9.41
EW_23B1_CHEM_112	112	1	5.58	9.41
EW_23B1_CHEM_112	112	1	4.34	9.41
EW_23B1_CHEM_112	112	1	5.56	9.41
EW_23B1_CHEM_112	112	1	2.68	9.41
EW_23B1_CHEM_112	112	1	3.69	9.41
EW_23B1_CHEM_112	112	1	6.06	9.41
EW_23B1_CHEM_112	112	1	5.19	9.41

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_112	112	1	0.341	1.4
EW_23B1_CHEM_112	112	1	6.23	16.9
EW_23B1_CHEM_112	112	1	8.36	16.9
EW_23B1_CHEM_112	112	1	8	16.9
EW_23B1_CHEM_112	112	1	5.74	16.9
EW_23B1_CHEM_112	112	1	7.18	16.9
EW_23B1_CHEM_112	112	1	7.14	16.9
EW_23B1_CHEM_112	112	1	7.18	16.9
EW_23B1_CHEM_112	112	1	6.55	16.9
EW_23B1_CHEM_112	112	1	5.65	16.9
EW_23B1_CHEM_112	112	1	5.65	16.9
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	56.7	56.7
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	2.26	2.26
EW_23B1_CHEM_112	112	1	1.13	1.13
EW_23B1_CHEM_112	112	1	0.1	0.1
EW_23B1_CHEM_113	113	1	0.145	1.1
EW_23B1_CHEM_113	113	1	0.058	0.44
EW_23B1_CHEM_113	113	1	0.427	4.4
EW_23B1_CHEM_113	113	1	0.004	0.03
EW_23B1_CHEM_113	113	1	3.24	8.87
EW_23B1_CHEM_113	113	1	3.86	8.87
EW_23B1_CHEM_113	113	1	3.45	8.87
EW_23B1_CHEM_113	113	1	3.48	8.87
EW_23B1_CHEM_113	113	1	6.07	8.87
EW_23B1_CHEM_113	113	1	4.37	8.87
EW_23B1_CHEM_113	113	1	2.57	8.87
EW_23B1_CHEM_113	113	1	4.25	8.87
EW_23B1_CHEM_113	113	1	5.71	8.87
EW_23B1_CHEM_113	113	1	2.55	8.87
EW_23B1_CHEM_113	113	1	3.22	8.87
EW_23B1_CHEM_113	113	1	5.26	8.87
EW_23B1_CHEM_113	113	1	4.09	8.87
EW_23B1_CHEM_113	113	1	5.24	8.87
EW_23B1_CHEM_113	113	1	2.53	8.87
EW_23B1_CHEM_113	113	1	3.48	8.87
EW_23B1_CHEM_113	113	1	5.71	8.87
EW_23B1_CHEM_113	113	1	4.9	8.87
EW_23B1_CHEM_113	113	1	0.321	1.32
EW_23B1_CHEM_113	113	1	6.08	16.5
EW_23B1_CHEM_113	113	1	8.15	16.5
EW_23B1_CHEM_113	113	1	7.8	16.5
EW_23B1_CHEM_113	113	1	5.6	16.5
EW_23B1_CHEM_113	113	1	7.01	16.5
EW_23B1_CHEM_113	113	1	6.96	16.5
EW_23B1_CHEM_113	113	1	7.01	16.5
EW_23B1_CHEM_113	113	1	6.39	16.5
EW_23B1_CHEM_113	113	1	5.51	16.5
EW_23B1_CHEM_113	113	1	5.51	16.5
EW_23B1_CHEM_113	113	1	1.1	1.1
EW_23B1_CHEM_113	113	1	1.1	1.1
EW_23B1_CHEM_113	113	1	1.1	1.1
EW_23B1_CHEM_113	113	1	1.1	1.1
EW_23B1_CHEM_113	113	1	1.1	1.1
EW_23B1_CHEM_113	113	1	1.1	1.1
EW_23B1_CHEM_113	113	1	55.3	55.3
EW_23B1_CHEM_113	113	1	1.1	1.1
EW_23B1_CHEM_113	113	1	1.1	1.1
EW_23B1_CHEM_113	113	1	1.1	1.1
EW_23B1_CHEM_113	113	1	2.2	2.2
EW_23B1_CHEM_113	113	1	1.1	1.1
EW_23B1_CHEM_113	113	1	0.1	0.1

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_114	114	1	0.17	1.29
EW_23B1_CHEM_114	114	1	0.068	0.515
EW_23B1_CHEM_114	114	1	0.499	5.15
EW_23B1_CHEM_114	114	1	0.004	0.033
EW_23B1_CHEM_114	114	1	3.78	10.4
EW_23B1_CHEM_114	114	1	4.51	10.4
EW_23B1_CHEM_114	114	1	4.03	10.4
EW_23B1_CHEM_114	114	1	4.06	10.4
EW_23B1_CHEM_114	114	1	7.09	10.4
EW_23B1_CHEM_114	114	1	5.1	10.4
EW_23B1_CHEM_114	114	1	3.01	10.4
EW_23B1_CHEM_114	114	1	4.96	10.4
EW_23B1_CHEM_114	114	1	6.68	10.4
EW_23B1_CHEM_114	114	1	2.98	10.4
EW_23B1_CHEM_114	114	1	3.76	10.4
EW_23B1_CHEM_114	114	1	6.15	10.4
EW_23B1_CHEM_114	114	1	4.78	10.4
EW_23B1_CHEM_114	114	1	6.13	10.4
EW_23B1_CHEM_114	114	1	2.95	10.4
EW_23B1_CHEM_114	114	1	4.06	10.4
EW_23B1_CHEM_114	114	1	6.68	10.4
EW_23B1_CHEM_114	114	1	5.72	10.4
EW_23B1_CHEM_114	114	1	0.376	1.54
EW_23B1_CHEM_114	114	1	7.17	19.5
EW_23B1_CHEM_114	114	1	9.61	19.5
EW_23B1_CHEM_114	114	1	9.19	19.5
EW_23B1_CHEM_114	114	1	6.6	19.5
EW_23B1_CHEM_114	114	1	8.26	19.5
EW_23B1_CHEM_114	114	1	8.2	19.5
EW_23B1_CHEM_114	114	1	8.26	19.5
EW_23B1_CHEM_114	114	1	7.53	19.5
EW_23B1_CHEM_114	114	1	6.49	19.5
EW_23B1_CHEM_114	114	1	6.49	19.5
EW_23B1_CHEM_114	114	1	1.3	1.3
EW_23B1_CHEM_114	114	1	1.3	1.3
EW_23B1_CHEM_114	114	1	1.3	1.3
EW_23B1_CHEM_114	114	1	1.3	1.3
EW_23B1_CHEM_114	114	1	1.3	1.3
EW_23B1_CHEM_114	114	1	1.3	1.3
EW_23B1_CHEM_114	114	1	65.2	65.2
EW_23B1_CHEM_114	114	1	1.3	1.3
EW_23B1_CHEM_114	114	1	1.3	1.3
EW_23B1_CHEM_114	114	1	1.3	1.3
EW_23B1_CHEM_114	114	1	2.6	2.6
EW_23B1_CHEM_114	114	1	1.3	1.3
EW_23B1_CHEM_114	114	1	0.1	0.1
EW_23B1_CHEM_115	115	1	0.182	1.38
EW_23B1_CHEM_115	115	1	0.073	0.553
EW_23B1_CHEM_115	115	1	0.536	5.53
EW_23B1_CHEM_115	115	1	0.005	0.042
EW_23B1_CHEM_115	115	1	4.15	11.4
EW_23B1_CHEM_115	115	1	4.94	11.4
EW_23B1_CHEM_115	115	1	4.42	11.4
EW_23B1_CHEM_115	115	1	4.46	11.4
EW_23B1_CHEM_115	115	1	7.77	11.4
EW_23B1_CHEM_115	115	1	5.59	11.4
EW_23B1_CHEM_115	115	1	3.3	11.4
EW_23B1_CHEM_115	115	1	5.44	11.4
EW_23B1_CHEM_115	115	1	7.32	11.4
EW_23B1_CHEM_115	115	1	3.26	11.4
EW_23B1_CHEM_115	115	1	4.13	11.4
EW_23B1_CHEM_115	115	1	6.74	11.4
EW_23B1_CHEM_115	115	1	5.24	11.4
EW_23B1_CHEM_115	115	1	6.72	11.4
EW_23B1_CHEM_115	115	1	3.24	11.4
EW_23B1_CHEM_115	115	1	4.46	11.4
EW_23B1_CHEM_115	115	1	7.32	11.4
EW_23B1_CHEM_115	115	1	6.27	11.4
EW_23B1_CHEM_115	115	1	0.404	1.66
EW_23B1_CHEM_115	115	1	7.68	20.9

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_115	115	1	10.3	20.9
EW_23B1_CHEM_115	115	1	9.85	20.9
EW_23B1_CHEM_115	115	1	7.06	20.9
EW_23B1_CHEM_115	115	1	8.84	20.9
EW_23B1_CHEM_115	115	1	8.79	20.9
EW_23B1_CHEM_115	115	1	8.84	20.9
EW_23B1_CHEM_115	115	1	8.07	20.9
EW_23B1_CHEM_115	115	1	6.95	20.9
EW_23B1_CHEM_115	115	1	6.95	20.9
EW_23B1_CHEM_115	115	1	1.39	1.39
EW_23B1_CHEM_115	115	1	1.39	1.39
EW_23B1_CHEM_115	115	1	1.39	1.39
EW_23B1_CHEM_115	115	1	1.39	1.39
EW_23B1_CHEM_115	115	1	1.39	1.39
EW_23B1_CHEM_115	115	1	1.39	1.39
EW_23B1_CHEM_115	115	1	69.8	69.8
EW_23B1_CHEM_115	115	1	1.39	1.39
EW_23B1_CHEM_115	115	1	1.39	1.39
EW_23B1_CHEM_115	115	1	1.39	1.39
EW_23B1_CHEM_115	115	1	2.78	2.78
EW_23B1_CHEM_115	115	1	2.78	2.78
EW_23B1_CHEM_115	115	1	1.39	1.39
EW_23B1_CHEM_115	115	1	0.1	0.1
EW_23B1_CHEM_116	116	1	0.243	1.84
EW_23B1_CHEM_116	116	1	0.097	0.737
EW_23B1_CHEM_116	116	1	0.715	7.37
EW_23B1_CHEM_116	116	1	0.007	0.052
EW_23B1_CHEM_116	116	1	5.59	15.3
EW_23B1_CHEM_116	116	1	6.66	15.3
EW_23B1_CHEM_116	116	1	5.96	15.3
EW_23B1_CHEM_116	116	1	6.01	15.3
EW_23B1_CHEM_116	116	1	10.5	15.3
EW_23B1_CHEM_116	116	1	7.54	15.3
EW_23B1_CHEM_116	116	1	4.44	15.3
EW_23B1_CHEM_116	116	1	7.34	15.3
EW_23B1_CHEM_116	116	1	9.87	15.3
EW_23B1_CHEM_116	116	1	4.4	15.3
EW_23B1_CHEM_116	116	1	5.56	15.3
EW_23B1_CHEM_116	116	1	9.08	15.3
EW_23B1_CHEM_116	116	1	7.06	15.3
EW_23B1_CHEM_116	116	1	9.05	15.3
EW_23B1_CHEM_116	116	1	4.37	15.3
EW_23B1_CHEM_116	116	1	6.01	15.3
EW_23B1_CHEM_116	116	1	9.87	15.3
EW_23B1_CHEM_116	116	1	8.46	15.3
EW_23B1_CHEM_116	116	1	0.538	2.21
EW_23B1_CHEM_116	116	1	10.5	28.5
EW_23B1_CHEM_116	116	1	14.1	28.5
EW_23B1_CHEM_116	116	1	13.5	28.5
EW_23B1_CHEM_116	116	1	9.66	28.5
EW_23B1_CHEM_116	116	1	12.1	28.5
EW_23B1_CHEM_116	116	1	12	28.5
EW_23B1_CHEM_116	116	1	12.1	28.5
EW_23B1_CHEM_116	116	1	11	28.5
EW_23B1_CHEM_116	116	1	9.51	28.5
EW_23B1_CHEM_116	116	1	9.51	28.5
EW_23B1_CHEM_116	116	1	1.9	1.9
EW_23B1_CHEM_116	116	1	1.9	1.9
EW_23B1_CHEM_116	116	1	1.9	1.9
EW_23B1_CHEM_116	116	1	1.9	1.9
EW_23B1_CHEM_116	116	1	1.9	1.9
EW_23B1_CHEM_116	116	1	1.9	1.9
EW_23B1_CHEM_116	116	1	95.5	95.5
EW_23B1_CHEM_116	116	1	1.9	1.9
EW_23B1_CHEM_116	116	1	1.9	1.9
EW_23B1_CHEM_116	116	1	1.9	1.9
EW_23B1_CHEM_116	116	1	3.8	3.8
EW_23B1_CHEM_116	116	1	1.9	1.9
EW_23B1_CHEM_116	116	1	0.1	0.1
EW_23B1_CHEM_117	117	1	0.262	1.98
EW_23B1_CHEM_117	117	1	0.105	0.794

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_117	117	1	0.77	7.94
EW_23B1_CHEM_117	117	1	0.008	0.059
EW_23B1_CHEM_117	117	1	5.78	15.8
EW_23B1_CHEM_117	117	1	6.9	15.8
EW_23B1_CHEM_117	117	1	6.17	15.8
EW_23B1_CHEM_117	117	1	6.21	15.8
EW_23B1_CHEM_117	117	1	10.8	15.8
EW_23B1_CHEM_117	117	1	7.8	15.8
EW_23B1_CHEM_117	117	1	4.6	15.8
EW_23B1_CHEM_117	117	1	7.59	15.8
EW_23B1_CHEM_117	117	1	10.2	15.8
EW_23B1_CHEM_117	117	1	4.55	15.8
EW_23B1_CHEM_117	117	1	5.75	15.8
EW_23B1_CHEM_117	117	1	9.4	15.8
EW_23B1_CHEM_117	117	1	7.31	15.8
EW_23B1_CHEM_117	117	1	9.37	15.8
EW_23B1_CHEM_117	117	1	4.52	15.8
EW_23B1_CHEM_117	117	1	6.21	15.8
EW_23B1_CHEM_117	117	1	10.2	15.8
EW_23B1_CHEM_117	117	1	8.75	15.8
EW_23B1_CHEM_117	117	1	0.58	2.38
EW_23B1_CHEM_117	117	1	11.3	30.6
EW_23B1_CHEM_117	117	1	15.1	30.6
EW_23B1_CHEM_117	117	1	14.4	30.6
EW_23B1_CHEM_117	117	1	10.4	30.6
EW_23B1_CHEM_117	117	1	13	30.6
EW_23B1_CHEM_117	117	1	12.9	30.6
EW_23B1_CHEM_117	117	1	13	30.6
EW_23B1_CHEM_117	117	1	11.8	30.6
EW_23B1_CHEM_117	117	1	10.2	30.6
EW_23B1_CHEM_117	117	1	10.2	30.6
EW_23B1_CHEM_117	117	1	2.04	2.04
EW_23B1_CHEM_117	117	1	2.04	2.04
EW_23B1_CHEM_117	117	1	2.04	2.04
EW_23B1_CHEM_117	117	1	2.04	2.04
EW_23B1_CHEM_117	117	1	2.04	2.04
EW_23B1_CHEM_117	117	1	2.04	2.04
EW_23B1_CHEM_117	117	1	102	102
EW_23B1_CHEM_117	117	1	2.04	2.04
EW_23B1_CHEM_117	117	1	2.04	2.04
EW_23B1_CHEM_117	117	1	2.04	2.04
EW_23B1_CHEM_117	117	1	4.08	4.08
EW_23B1_CHEM_117	117	1	2.04	2.04
EW_23B1_CHEM_117	117	1	0.1	0.1
EW_23B1_CHEM_DUP01	100	1	0.116	0.88
EW_23B1_CHEM_DUP01	100	1	0.047	0.352
EW_23B1_CHEM_DUP01	100	1	0.342	3.52
EW_23B1_CHEM_DUP01	100	1	0.003	0.025
EW_23B1_CHEM_DUP01	100	1	2.59	7.1
EW_23B1_CHEM_DUP01	100	1	3.09	7.1
EW_23B1_CHEM_DUP01	100	1	2.76	7.1
EW_23B1_CHEM_DUP01	100	1	2.78	7.1
EW_23B1_CHEM_DUP01	100	1	4.86	7.1
EW_23B1_CHEM_DUP01	100	1	3.49	7.1
EW_23B1_CHEM_DUP01	100	1	2.06	7.1
EW_23B1_CHEM_DUP01	100	1	3.4	7.1
EW_23B1_CHEM_DUP01	100	1	4.57	7.1
EW_23B1_CHEM_DUP01	100	1	2.04	7.1
EW_23B1_CHEM_DUP01	100	1	2.58	7.1
EW_23B1_CHEM_DUP01	100	1	4.21	7.1
EW_23B1_CHEM_DUP01	100	1	3.27	7.1
EW_23B1_CHEM_DUP01	100	1	4.2	7.1
EW_23B1_CHEM_DUP01	100	1	2.02	7.1
EW_23B1_CHEM_DUP01	100	1	2.78	7.1
EW_23B1_CHEM_DUP01	100	1	4.57	7.1
EW_23B1_CHEM_DUP01	100	1	3.92	7.1
EW_23B1_CHEM_DUP01	100	1	0.257	1.06
EW_23B1_CHEM_DUP01	100	1	4.93	13.4
EW_23B1_CHEM_DUP01	100	1	6.61	13.4
EW_23B1_CHEM_DUP01	100	1	6.32	13.4

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_DUP01	100	1	4.54	13.4
EW_23B1_CHEM_DUP01	100	1	5.68	13.4
EW_23B1_CHEM_DUP01	100	1	5.64	13.4
EW_23B1_CHEM_DUP01	100	1	5.68	13.4
EW_23B1_CHEM_DUP01	100	1	5.18	13.4
EW_23B1_CHEM_DUP01	100	1	4.46	13.4
EW_23B1_CHEM_DUP01	100	1	4.46	13.4
EW_23B1_CHEM_DUP01	100	1	0.893	0.893
EW_23B1_CHEM_DUP01	100	1	0.893	0.893
EW_23B1_CHEM_DUP01	100	1	0.893	0.893
EW_23B1_CHEM_DUP01	100	1	0.893	0.893
EW_23B1_CHEM_DUP01	100	1	0.893	0.893
EW_23B1_CHEM_DUP01	100	1	0.893	0.893
EW_23B1_CHEM_DUP01	100	1	44.8	44.8
EW_23B1_CHEM_DUP01	100	1	0.893	0.893
EW_23B1_CHEM_DUP01	100	1	0.893	0.893
EW_23B1_CHEM_DUP01	100	1	0.893	0.893
EW_23B1_CHEM_DUP01	100	1	1.79	1.79
EW_23B1_CHEM_DUP01	100	1	0.893	0.893
EW_23B1_CHEM_DUP01	100	1	0.1	0.1
EW_23B1_CHEM_DUP02	110	1	0.159	1.2
EW_23B1_CHEM_DUP02	110	1	0.064	0.481
EW_23B1_CHEM_DUP02	110	1	0.467	4.81
EW_23B1_CHEM_DUP02	110	1	0.004	0.031
EW_23B1_CHEM_DUP02	110	1	3.5	9.58
EW_23B1_CHEM_DUP02	110	1	4.17	9.58
EW_23B1_CHEM_DUP02	110	1	3.72	9.58
EW_23B1_CHEM_DUP02	110	1	3.75	9.58
EW_23B1_CHEM_DUP02	110	1	6.55	9.58
EW_23B1_CHEM_DUP02	110	1	4.71	9.58
EW_23B1_CHEM_DUP02	110	1	2.78	9.58
EW_23B1_CHEM_DUP02	110	1	4.59	9.58
EW_23B1_CHEM_DUP02	110	1	6.17	9.58
EW_23B1_CHEM_DUP02	110	1	2.75	9.58
EW_23B1_CHEM_DUP02	110	1	3.48	9.58
EW_23B1_CHEM_DUP02	110	1	5.68	9.58
EW_23B1_CHEM_DUP02	110	1	4.42	9.58
EW_23B1_CHEM_DUP02	110	1	5.66	9.58
EW_23B1_CHEM_DUP02	110	1	2.73	9.58
EW_23B1_CHEM_DUP02	110	1	3.75	9.58
EW_23B1_CHEM_DUP02	110	1	6.17	9.58
EW_23B1_CHEM_DUP02	110	1	5.29	9.58
EW_23B1_CHEM_DUP02	110	1	0.351	1.44
EW_23B1_CHEM_DUP02	110	1	6.44	17.5
EW_23B1_CHEM_DUP02	110	1	8.64	17.5
EW_23B1_CHEM_DUP02	110	1	8.26	17.5
EW_23B1_CHEM_DUP02	110	1	5.93	17.5
EW_23B1_CHEM_DUP02	110	1	7.42	17.5
EW_23B1_CHEM_DUP02	110	1	7.38	17.5
EW_23B1_CHEM_DUP02	110	1	7.42	17.5
EW_23B1_CHEM_DUP02	110	1	6.77	17.5
EW_23B1_CHEM_DUP02	110	1	5.84	17.5
EW_23B1_CHEM_DUP02	110	1	5.84	17.5
EW_23B1_CHEM_DUP02	110	1	1.17	1.17
EW_23B1_CHEM_DUP02	110	1	1.17	1.17
EW_23B1_CHEM_DUP02	110	1	1.17	1.17
EW_23B1_CHEM_DUP02	110	1	1.17	1.17
EW_23B1_CHEM_DUP02	110	1	1.17	1.17
EW_23B1_CHEM_DUP02	110	1	1.17	1.17
EW_23B1_CHEM_DUP02	110	1	58.6	58.6
EW_23B1_CHEM_DUP02	110	1	1.17	1.17
EW_23B1_CHEM_DUP02	110	1	1.17	1.17
EW_23B1_CHEM_DUP02	110	1	1.17	1.17
EW_23B1_CHEM_DUP02	110	1	2.33	2.33
EW_23B1_CHEM_DUP02	110	1	1.17	1.17
EW_23B1_CHEM_DUP02	110	1	0.1	0.1
EW_23B1_CHEM_DUP03	103	1	0.109	0.823
EW_23B1_CHEM_DUP03	103	1	0.044	0.329
EW_23B1_CHEM_DUP03	103	1	0.319	3.29
EW_23B1_CHEM_DUP03	103	1	0.003	0.02

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_DUP03	103	1	2.33	6.39
EW_23B1_CHEM_DUP03	103	1	2.78	6.39
EW_23B1_CHEM_DUP03	103	1	2.49	6.39
EW_23B1_CHEM_DUP03	103	1	2.51	6.39
EW_23B1_CHEM_DUP03	103	1	4.37	6.39
EW_23B1_CHEM_DUP03	103	1	3.15	6.39
EW_23B1_CHEM_DUP03	103	1	1.85	6.39
EW_23B1_CHEM_DUP03	103	1	3.06	6.39
EW_23B1_CHEM_DUP03	103	1	4.12	6.39
EW_23B1_CHEM_DUP03	103	1	1.84	6.39
EW_23B1_CHEM_DUP03	103	1	2.32	6.39
EW_23B1_CHEM_DUP03	103	1	3.79	6.39
EW_23B1_CHEM_DUP03	103	1	2.95	6.39
EW_23B1_CHEM_DUP03	103	1	3.78	6.39
EW_23B1_CHEM_DUP03	103	1	1.82	6.39
EW_23B1_CHEM_DUP03	103	1	2.51	6.39
EW_23B1_CHEM_DUP03	103	1	4.12	6.39
EW_23B1_CHEM_DUP03	103	1	3.53	6.39
EW_23B1_CHEM_DUP03	103	1	0.24	0.988
EW_23B1_CHEM_DUP03	103	1	4.35	11.8
EW_23B1_CHEM_DUP03	103	1	5.84	11.8
EW_23B1_CHEM_DUP03	103	1	5.58	11.8
EW_23B1_CHEM_DUP03	103	1	4.01	11.8
EW_23B1_CHEM_DUP03	103	1	5.02	11.8
EW_23B1_CHEM_DUP03	103	1	4.99	11.8
EW_23B1_CHEM_DUP03	103	1	5.02	11.8
EW_23B1_CHEM_DUP03	103	1	4.58	11.8
EW_23B1_CHEM_DUP03	103	1	3.94	11.8
EW_23B1_CHEM_DUP03	103	1	3.94	11.8
EW_23B1_CHEM_DUP03	103	1	0.789	0.789
EW_23B1_CHEM_DUP03	103	1	0.789	0.789
EW_23B1_CHEM_DUP03	103	1	0.789	0.789
EW_23B1_CHEM_DUP03	103	1	0.789	0.789
EW_23B1_CHEM_DUP03	103	1	0.789	0.789
EW_23B1_CHEM_DUP03	103	1	0.789	0.789
EW_23B1_CHEM_DUP03	103	1	39.6	39.6
EW_23B1_CHEM_DUP03	103	1	0.789	0.789
EW_23B1_CHEM_DUP03	103	1	0.789	0.789
EW_23B1_CHEM_DUP03	103	1	0.789	0.789
EW_23B1_CHEM_DUP03	103	1	1.58	1.58
EW_23B1_CHEM_DUP03	103	1	0.789	0.789
EW_23B1_CHEM_DUP03	103	1	0.1	0.1
EW_23B1_CHEM_DUP04	116	1	0.26	1.97
EW_23B1_CHEM_DUP04	116	1	0.104	0.788
EW_23B1_CHEM_DUP04	116	1	0.764	7.88
EW_23B1_CHEM_DUP04	116	1	0.006	0.047
EW_23B1_CHEM_DUP04	116	1	5.46	15
EW_23B1_CHEM_DUP04	116	1	6.51	15
EW_23B1_CHEM_DUP04	116	1	5.82	15
EW_23B1_CHEM_DUP04	116	1	5.86	15
EW_23B1_CHEM_DUP04	116	1	10.2	15
EW_23B1_CHEM_DUP04	116	1	7.36	15
EW_23B1_CHEM_DUP04	116	1	4.34	15
EW_23B1_CHEM_DUP04	116	1	7.17	15
EW_23B1_CHEM_DUP04	116	1	9.64	15
EW_23B1_CHEM_DUP04	116	1	4.29	15
EW_23B1_CHEM_DUP04	116	1	5.43	15
EW_23B1_CHEM_DUP04	116	1	8.87	15
EW_23B1_CHEM_DUP04	116	1	6.9	15
EW_23B1_CHEM_DUP04	116	1	8.84	15
EW_23B1_CHEM_DUP04	116	1	4.26	15
EW_23B1_CHEM_DUP04	116	1	5.86	15
EW_23B1_CHEM_DUP04	116	1	9.64	15
EW_23B1_CHEM_DUP04	116	1	8.26	15
EW_23B1_CHEM_DUP04	116	1	0.575	2.36
EW_23B1_CHEM_DUP04	116	1	11	29.8
EW_23B1_CHEM_DUP04	116	1	14.7	29.8
EW_23B1_CHEM_DUP04	116	1	14.1	29.8
EW_23B1_CHEM_DUP04	116	1	10.1	29.8
EW_23B1_CHEM_DUP04	116	1	12.6	29.8

Sample ID[2]	Station ID	Laboratory Replicate[3]	Method Detection Limit (Result Units)	Reporting Limit (Result Units)
EW_23B1_CHEM_DUP04	116	1	12.6	29.8
EW_23B1_CHEM_DUP04	116	1	12.6	29.8
EW_23B1_CHEM_DUP04	116	1	11.5	29.8
EW_23B1_CHEM_DUP04	116	1	9.93	29.8
EW_23B1_CHEM_DUP04	116	1	9.93	29.8
EW_23B1_CHEM_DUP04	116	1	1.99	1.99
EW_23B1_CHEM_DUP04	116	1	1.99	1.99
EW_23B1_CHEM_DUP04	116	1	1.99	1.99
EW_23B1_CHEM_DUP04	116	1	1.99	1.99
EW_23B1_CHEM_DUP04	116	1	1.99	1.99
EW_23B1_CHEM_DUP04	116	1	1.99	1.99
EW_23B1_CHEM_DUP04	116	1	99.7	99.7
EW_23B1_CHEM_DUP04	116	1	1.99	1.99
EW_23B1_CHEM_DUP04	116	1	1.99	1.99
EW_23B1_CHEM_DUP04	116	1	1.99	1.99
EW_23B1_CHEM_DUP04	116	1	3.97	3.97
EW_23B1_CHEM_DUP04	116	1	1.99	1.99
EW_23B1_CHEM_DUP04	116	1	0.1	0.1

Appendix G – Water Column Conductivity and Temperature Depth Profile, and Sediment Temperature Results

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	001	A	0.15	22.72	22.28
CTD	001	A	0.45	22.70	22.28
CTD	001	A	0.75	22.70	22.28
CTD	001	A	1.06	22.69	22.27
CTD	001	A	1.36	22.69	22.29
CTD	001	A	1.66	22.71	22.30
CTD	001	A	1.96	22.70	22.31
CTD	001	A	2.26	22.70	22.33
CTD	001	A	2.57	22.70	22.34
CTD	001	A	2.87	22.69	22.34
CTD	001	A	3.17	22.70	22.35
CTD	001	A	3.47	22.70	22.35
CTD	001	A	3.77	22.70	22.35
CTD	001	A	4.08	22.70	22.35
CTD	001	A	4.38	22.70	22.34
CTD	001	A	4.68	22.71	22.34
CTD	001	A	4.98	22.70	22.34
CTD	001	A	5.28	22.70	22.34
CTD	001	A	5.59	22.70	22.37
CTD	001	A	5.89	22.71	22.48
CTD	001	A	6.19	22.72	22.59
CTD	001	A	6.49	22.73	22.82
CTD	001	A	6.79	22.72	23.28
CTD	001	A	7.09	22.72	23.46
CTD	001	A	7.46	22.74	23.87
CTD	002	A	0.15	22.50	22.40
CTD	002	A	0.45	22.48	22.41
CTD	002	A	0.75	22.50	22.40
CTD	002	A	1.06	22.51	22.41
CTD	002	A	1.36	22.51	22.42

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	002	A	1.66	22.51	22.45
CTD	002	A	1.96	22.53	22.46
CTD	002	A	2.26	22.54	22.47
CTD	002	A	2.57	22.57	22.47
CTD	002	A	2.87	22.60	22.47
CTD	002	A	3.17	22.62	22.50
CTD	002	A	3.47	22.64	22.53
CTD	002	A	3.77	22.64	22.53
CTD	002	A	4.08	22.65	22.52
CTD	002	A	4.38	22.66	22.52
CTD	002	A	4.68	22.66	22.54
CTD	002	A	4.98	22.67	22.54
CTD	002	A	5.28	22.68	22.62
CTD	002	A	5.58	22.68	22.65
CTD	002	A	5.89	22.69	22.69
CTD	002	A	6.19	22.69	22.74
CTD	002	A	6.49	22.69	22.83
CTD	002	A	6.79	22.69	23.09
CTD	002	A	7.09	22.70	23.15
CTD	002	A	7.40	22.70	23.18
CTD	002	A	7.70	22.71	23.28
CTD	002	A	8.00	22.72	23.38
CTD	002	A	8.30	22.72	23.49
CTD	002	A	8.60	22.74	23.59
CTD	002	A	8.90	22.74	23.97
CTD	002	A	9.21	22.73	24.11
CTD	002	A	9.51	22.73	24.25
CTD	002	A	9.81	22.74	24.38
CTD	002	A	10.11	22.72	24.47
CTD	002	A	10.30	22.74	24.42

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	003	A	0.15	22.76	22.39
CTD	003	A	0.45	22.72	22.40
CTD	003	A	0.75	22.72	22.37
CTD	003	A	1.06	22.74	22.36
CTD	003	A	1.36	22.75	22.36
CTD	003	A	1.66	22.74	22.36
CTD	003	A	1.96	22.75	22.35
CTD	003	A	2.26	22.75	22.34
CTD	003	A	2.56	22.76	22.34
CTD	003	A	2.87	22.77	22.33
CTD	003	A	3.17	22.77	22.33
CTD	003	A	3.47	22.77	22.35
CTD	003	A	3.77	22.77	22.34
CTD	003	A	4.07	22.77	22.34
CTD	003	A	4.37	22.77	22.35
CTD	003	A	4.68	22.77	22.34
CTD	003	A	4.98	22.77	22.37
CTD	003	A	5.28	22.77	22.50
CTD	003	A	5.58	22.77	22.54
CTD	003	A	5.88	22.77	22.56
CTD	003	A	6.18	22.77	22.56
CTD	003	A	6.49	22.76	22.67
CTD	003	A	6.79	22.76	23.06
CTD	003	A	7.09	22.75	23.14
CTD	003	A	7.39	22.75	23.28
CTD	003	A	7.69	22.75	23.32
CTD	003	A	7.99	22.75	23.43
CTD	003	A	8.30	22.75	23.53
CTD	003	A	8.60	22.75	23.66
CTD	003	A	8.90	22.76	24.21

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	003	A	9.20	22.76	24.37
CTD	003	A	9.50	22.75	24.52
CTD	003	A	9.80	22.75	24.46
CTD	003	A	10.10	22.75	24.21
CTD	003	A	10.40	22.75	24.14
CTD	003	A	10.71	22.75	24.44
CTD	003	A	11.01	22.74	24.77
CTD	003	A	11.18	22.75	24.82
CTD	004	A	0.15	22.74	22.44
CTD	004	A	0.45	22.74	22.46
CTD	004	A	0.75	22.74	22.33
CTD	004	A	1.06	22.74	22.46
CTD	004	A	1.36	22.74	22.45
CTD	004	A	1.66	22.75	22.28
CTD	004	A	1.96	22.74	22.50
CTD	004	A	2.26	22.75	22.79
CTD	004	A	2.56	22.76	22.84
CTD	004	A	2.87	22.76	22.89
CTD	004	A	3.17	22.76	22.89
CTD	004	A	3.47	22.77	22.90
CTD	004	A	3.77	22.77	22.91
CTD	004	A	4.07	22.77	22.91
CTD	004	A	4.37	22.77	22.90
CTD	004	A	4.68	22.77	22.91
CTD	004	A	4.98	22.77	22.91
CTD	004	A	5.28	22.78	22.91
CTD	004	A	5.58	22.78	22.91
CTD	004	A	5.88	22.78	22.91
CTD	004	A	6.18	22.78	22.90
CTD	004	A	6.48	22.78	22.90

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	004	A	6.79	22.78	22.90
CTD	004	A	7.09	22.78	22.89
CTD	004	A	7.39	22.78	22.89
CTD	004	A	7.69	22.78	22.89
CTD	004	A	7.99	22.77	22.88
CTD	004	A	8.29	22.77	22.89
CTD	004	A	8.60	22.77	22.88
CTD	004	A	8.90	22.77	22.88
CTD	004	A	9.20	22.77	22.87
CTD	004	A	9.50	22.76	22.89
CTD	004	A	9.80	22.76	22.91
CTD	004	A	10.10	22.77	22.89
CTD	004	A	10.40	22.77	22.91
CTD	004	A	10.71	22.74	23.08
CTD	004	A	11.07	22.77	23.02
CTD	005	A	0.15	22.79	22.00
CTD	005	A	0.45	22.78	22.01
CTD	005	A	0.75	22.80	22.02
CTD	005	A	1.06	22.80	22.03
CTD	005	A	1.36	22.81	22.05
CTD	005	A	1.66	22.83	22.08
CTD	005	A	1.96	22.85	22.17
CTD	005	A	2.26	22.84	22.27
CTD	005	A	2.56	22.84	22.25
CTD	005	A	2.87	22.84	22.22
CTD	005	A	3.17	22.84	22.23
CTD	005	A	3.47	22.83	22.27
CTD	005	A	3.77	22.83	22.32
CTD	005	A	4.07	22.83	22.35
CTD	005	A	4.38	22.83	22.49

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	005	A	4.68	22.83	22.49
CTD	005	A	4.98	22.83	22.52
CTD	005	A	5.28	22.83	22.52
CTD	005	A	5.58	22.83	22.51
CTD	005	A	5.88	22.82	22.52
CTD	005	A	6.19	22.82	22.54
CTD	005	A	6.49	22.82	22.56
CTD	005	A	6.79	22.82	22.58
CTD	005	A	7.09	22.82	22.62
CTD	005	A	7.39	22.82	22.63
CTD	005	A	7.69	22.81	22.63
CTD	005	A	7.99	22.81	22.67
CTD	005	A	8.30	22.81	22.74
CTD	005	A	8.60	22.81	22.78
CTD	005	A	8.90	22.80	22.90
CTD	005	A	9.20	22.78	23.26
CTD	005	A	9.50	22.77	23.86
CTD	005	A	9.80	22.77	23.86
CTD	005	A	10.11	22.78	23.88
CTD	005	A	10.41	22.78	24.04
CTD	005	A	10.71	22.75	24.26
CTD	005	A	11.00	22.76	24.32
CTD	006	A	0.15	22.81	22.64
CTD	006	A	0.45	22.80	22.64
CTD	006	A	0.75	22.80	22.66
CTD	006	A	1.06	22.80	22.68
CTD	006	A	1.36	22.80	22.65
CTD	006	A	1.66	22.80	22.65
CTD	006	A	1.96	22.79	22.64
CTD	006	A	2.26	22.79	22.64

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	006	A	2.56	22.79	22.64
CTD	006	A	2.87	22.79	22.64
CTD	006	A	3.17	22.80	22.65
CTD	006	A	3.47	22.80	22.69
CTD	006	A	3.77	22.80	22.73
CTD	006	A	4.07	22.79	22.74
CTD	006	A	4.37	22.78	22.77
CTD	006	A	4.68	22.77	22.92
CTD	006	A	4.98	22.76	23.12
CTD	006	A	5.28	22.76	23.27
CTD	006	A	5.58	22.77	23.40
CTD	006	A	5.88	22.77	23.45
CTD	006	A	6.18	22.78	23.56
CTD	006	A	6.48	22.77	23.64
CTD	006	A	6.79	22.77	23.70
CTD	006	A	7.09	22.77	23.79
CTD	006	A	7.39	22.76	23.90
CTD	006	A	7.69	22.76	23.98
CTD	006	A	7.99	22.76	24.03
CTD	006	A	8.29	22.76	24.07
CTD	006	A	8.59	22.76	24.17
CTD	006	A	8.89	22.76	24.21
CTD	006	A	9.20	22.76	24.24
CTD	006	A	9.50	22.76	24.29
CTD	006	A	9.80	22.76	24.31
CTD	006	A	10.10	22.76	24.35
CTD	006	A	10.40	22.76	24.38
CTD	006	A	10.70	22.76	24.43
CTD	006	A	11.00	22.76	24.46
CTD	006	A	11.30	22.76	24.63
CTD	006	A	11.61	22.76	24.67
CTD	006	A	11.91	22.74	24.79
CTD	006	A	12.21	22.75	24.84
CTD	007	A	0.15	22.66	23.53
CTD	007	A	0.45	22.63	23.51
CTD	007	A	0.75	22.62	23.54
CTD	007	A	1.05	22.63	23.55
CTD	007	A	1.36	22.66	23.58
CTD	007	A	1.66	22.67	23.61
CTD	007	A	1.96	22.67	23.61
CTD	007	A	2.26	22.68	23.61
CTD	007	A	2.56	22.68	23.65
CTD	007	A	2.86	22.68	23.64
CTD	007	A	3.16	22.69	23.66
CTD	007	A	3.47	22.69	23.68
CTD	007	A	3.77	22.69	23.68
CTD	007	A	4.07	22.70	23.69
CTD	007	A	4.37	22.71	23.71
CTD	007	A	4.67	22.72	23.78
CTD	007	A	4.97	22.72	23.84
CTD	007	A	5.27	22.73	23.89
CTD	007	A	5.58	22.73	23.93
CTD	007	A	5.88	22.73	23.94
CTD	007	A	6.18	22.74	24.02
CTD	007	A	6.48	22.74	24.06
CTD	007	A	6.78	22.75	24.10
CTD	007	A	7.08	22.76	24.20
CTD	007	A	7.38	22.76	24.28
CTD	007	A	7.68	22.76	24.39
CTD	007	A	7.99	22.76	24.51
CTD	007	A	8.29	22.76	24.61
CTD	007	A	8.59	22.76	24.72
CTD	007	A	8.89	22.76	24.82
CTD	007	A	9.19	22.76	24.89
CTD	007	A	9.49	22.76	24.94
CTD	007	A	9.79	22.76	24.99
CTD	007	A	10.09	22.76	25.05
CTD	007	A	10.40	22.76	25.07
CTD	007	A	10.70	22.76	25.08
CTD	007	A	11.00	22.76	25.09
CTD	007	A	11.30	22.77	25.08
CTD	007	A	11.60	22.77	25.08
CTD	007	A	11.90	22.77	25.12
CTD	007	A	12.20	22.76	25.12
CTD	007	A	12.40	22.77	25.13
CTD	008	A	0.15	22.65	23.55
CTD	008	A	0.45	22.64	23.54
CTD	008	A	0.75	22.67	23.56
CTD	008	A	1.05	22.68	23.59
CTD	008	A	1.36	22.68	23.61
CTD	008	A	1.66	22.68	23.61
CTD	008	A	1.96	22.68	23.62
CTD	008	A	2.26	22.69	23.66
CTD	008	A	2.56	22.72	23.80
CTD	008	A	2.86	22.72	23.85
CTD	008	A	3.16	22.73	23.89
CTD	008	A	3.47	22.73	23.99
CTD	008	A	3.77	22.74	24.07
CTD	008	A	4.07	22.74	24.09
CTD	008	A	4.37	22.75	24.11
CTD	008	A	4.67	22.76	24.14

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	008	A	4.97	22.76	24.16
CTD	008	A	5.27	22.77	24.19
CTD	008	A	5.58	22.77	24.24
CTD	008	A	5.88	22.77	24.36
CTD	008	A	6.18	22.78	24.53
CTD	008	A	6.48	22.78	24.63
CTD	008	A	6.78	22.78	24.72
CTD	008	A	7.08	22.78	24.87
CTD	008	A	7.38	22.78	24.99
CTD	008	A	7.68	22.78	25.09
CTD	008	A	7.98	22.78	25.12
CTD	008	A	8.29	22.78	25.14
CTD	008	A	8.59	22.78	25.15
CTD	008	A	8.89	22.78	25.16
CTD	008	A	9.19	22.78	25.18
CTD	008	A	9.49	22.78	25.21
CTD	008	A	9.79	22.78	25.21
CTD	008	A	10.09	22.78	25.23
CTD	008	A	10.39	22.78	25.23
CTD	008	A	10.69	22.78	25.23
CTD	008	A	10.99	22.78	25.26
CTD	008	A	11.30	22.76	25.29
CTD	008	A	11.74	22.78	25.27
CTD	009	A	0.15	22.69	23.57
CTD	009	A	0.45	22.69	23.56
CTD	009	A	0.75	22.70	23.59
CTD	009	A	1.05	22.70	23.61
CTD	009	A	1.36	22.70	23.60
CTD	009	A	1.66	22.71	23.59
CTD	009	A	1.96	22.71	23.61

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	009	A	2.26	22.70	23.61
CTD	009	A	2.56	22.70	23.63
CTD	009	A	2.86	22.70	23.64
CTD	009	A	3.16	22.71	23.63
CTD	009	A	3.47	22.71	23.63
CTD	009	A	3.77	22.71	23.64
CTD	009	A	4.07	22.70	23.63
CTD	009	A	4.37	22.71	23.62
CTD	009	A	4.67	22.71	23.64
CTD	009	A	4.97	22.71	23.66
CTD	009	A	5.27	22.72	23.80
CTD	009	A	5.58	22.73	23.87
CTD	009	A	5.88	22.73	23.91
CTD	009	A	6.18	22.73	24.00
CTD	009	A	6.48	22.74	24.11
CTD	009	A	6.78	22.76	24.32
CTD	009	A	7.08	22.77	24.57
CTD	009	A	7.38	22.77	25.01
CTD	009	A	7.68	22.77	25.23
CTD	009	A	7.99	22.77	25.36
CTD	009	A	8.29	22.77	25.50
CTD	009	A	8.59	22.77	25.61
CTD	009	A	8.89	22.77	25.68
CTD	009	A	9.19	22.77	25.77
CTD	009	A	9.49	22.77	25.80
CTD	009	A	9.79	22.77	25.80
CTD	009	A	10.09	22.78	25.79
CTD	009	A	10.39	22.78	25.82
CTD	009	A	10.69	22.76	25.92
CTD	009	A	11.13	22.76	25.89

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	010	A	0.15	22.66	23.37
CTD	010	A	0.45	22.71	23.36
CTD	010	A	0.75	22.76	23.54
CTD	010	A	1.06	22.81	23.72
CTD	010	A	1.36	22.80	23.80
CTD	010	A	1.66	22.80	23.77
CTD	010	A	1.96	22.80	23.79
CTD	010	A	2.26	22.78	23.80
CTD	010	A	2.56	22.76	23.74
CTD	010	A	2.86	22.76	23.61
CTD	010	A	3.16	22.77	23.65
CTD	010	A	3.47	22.79	23.74
CTD	010	A	3.77	22.79	23.82
CTD	010	A	4.07	22.79	23.82
CTD	010	A	4.37	22.79	23.87
CTD	010	A	4.67	22.79	23.94
CTD	010	A	4.97	22.80	23.98
CTD	010	A	5.27	22.80	24.04
CTD	010	A	5.58	22.80	24.25
CTD	010	A	5.88	22.80	24.37
CTD	010	A	6.18	22.81	24.48
CTD	010	A	6.48	22.81	24.56
CTD	010	A	6.78	22.81	24.61
CTD	010	A	7.08	22.81	24.68
CTD	010	A	7.38	22.81	24.76
CTD	010	A	7.68	22.80	24.91
CTD	010	A	7.98	22.80	25.03
CTD	010	A	8.29	22.80	25.11
CTD	010	A	8.59	22.80	25.18
CTD	010	A	8.89	22.79	25.28

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	010	A	9.19	22.77	25.48
CTD	010	A	9.49	22.76	25.67
CTD	010	A	9.79	22.74	25.92
CTD	010	A	10.09	22.73	26.06
CTD	010	A	10.39	22.73	26.11
CTD	010	A	10.69	22.74	26.12
CTD	010	A	10.99	22.73	26.16
CTD	010	A	11.30	22.72	26.23
CTD	010	A	11.60	22.69	26.22
CTD	010	A	11.81	22.70	26.21
CTD	011	A	0.15	22.83	23.89
CTD	011	A	0.45	22.84	24.00
CTD	011	A	0.75	22.84	24.16
CTD	011	A	1.05	22.84	24.20
CTD	011	A	1.36	22.84	24.13
CTD	011	A	1.66	22.83	24.22
CTD	011	A	1.96	22.83	24.22
CTD	011	A	2.26	22.83	24.26
CTD	011	A	2.56	22.83	24.30
CTD	011	A	2.86	22.83	24.32
CTD	011	A	3.16	22.83	24.33
CTD	011	A	3.46	22.83	24.34
CTD	011	A	3.77	22.82	24.37
CTD	011	A	4.07	22.81	24.58
CTD	011	A	4.37	22.81	24.56
CTD	011	A	4.67	22.80	24.95
CTD	011	A	4.97	22.79	25.04
CTD	011	A	5.27	22.79	25.15
CTD	011	A	5.57	22.78	25.21
CTD	011	A	5.87	22.78	25.25

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	011	A	6.17	22.78	25.31
CTD	011	A	6.48	22.78	25.38
CTD	011	A	6.78	22.78	25.43
CTD	011	A	7.08	22.78	25.47
CTD	011	A	7.38	22.77	25.51
CTD	011	A	7.68	22.77	25.56
CTD	011	A	7.98	22.77	25.61
CTD	011	A	8.28	22.76	25.67
CTD	011	A	8.58	22.76	25.70
CTD	011	A	8.88	22.76	25.73
CTD	011	A	9.18	22.76	25.74
CTD	011	A	9.49	22.76	25.76
CTD	011	A	9.79	22.75	25.76
CTD	011	A	10.09	22.75	25.79
CTD	011	A	10.39	22.74	25.90
CTD	011	A	10.69	22.74	25.96
CTD	011	A	10.99	22.74	25.97
CTD	011	A	11.29	22.74	26.04
CTD	011	A	11.59	22.73	26.07
CTD	011	A	11.89	22.74	26.07
CTD	011	A	12.19	22.74	26.16
CTD	011	A	12.49	22.73	26.21
CTD	011	A	12.80	22.70	26.24
CTD	011	A	12.99	22.69	26.28
CTD	012	A	0.15	22.74	22.85
CTD	012	A	0.45	22.74	22.98
CTD	012	A	0.75	22.74	22.82
CTD	012	A	1.06	22.73	22.82
CTD	012	A	1.36	22.74	22.85
CTD	012	A	1.66	22.74	22.83

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	012	A	1.96	22.72	22.71
CTD	012	A	2.26	22.72	22.89
CTD	012	A	2.57	22.71	23.15
CTD	012	A	2.87	22.72	23.13
CTD	012	A	3.17	22.74	23.23
CTD	012	A	3.47	22.75	23.24
CTD	012	A	3.77	22.77	23.31
CTD	012	A	4.07	22.79	23.57
CTD	012	A	4.38	22.80	23.68
CTD	012	A	4.68	22.80	24.40
CTD	012	A	4.98	22.80	24.65
CTD	012	A	5.28	22.79	24.77
CTD	012	A	5.58	22.79	24.87
CTD	012	A	5.88	22.79	24.99
CTD	012	A	6.18	22.79	25.04
CTD	012	A	6.49	22.79	25.06
CTD	012	A	6.79	22.79	25.28
CTD	012	A	7.09	22.78	25.40
CTD	012	A	7.39	22.78	25.51
CTD	012	A	7.69	22.77	25.67
CTD	012	A	7.99	22.76	25.74
CTD	012	A	8.29	22.76	25.85
CTD	012	A	8.59	22.75	25.97
CTD	012	A	8.89	22.74	26.09
CTD	012	A	9.20	22.74	26.15
CTD	012	A	9.50	22.73	26.21
CTD	012	A	9.80	22.72	26.24
CTD	012	A	10.10	22.71	26.27
CTD	012	A	10.40	22.69	26.30
CTD	012	A	10.70	22.68	26.35
CTD	012	A	11.00	22.67	26.37

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	012	A	11.30	22.66	26.37
CTD	012	A	11.60	22.65	26.38
CTD	012	A	11.90	22.64	26.42
CTD	012	A	12.21	22.62	26.44
CTD	012	A	12.51	22.61	26.45
CTD	012	A	12.81	22.60	26.49
CTD	012	A	13.11	22.59	26.52
CTD	012	A	13.41	22.59	26.53
CTD	012	A	13.71	22.60	26.53
CTD	012	A	14.01	22.60	26.53
CTD	012	A	14.31	22.59	26.54
CTD	012	A	14.61	22.58	26.55
CTD	012	A	14.94	22.58	26.55
CTD	013	A	0.15	22.59	22.30
CTD	013	A	0.45	22.58	22.30
CTD	013	A	0.75	22.59	22.30
CTD	013	A	1.06	22.58	22.31
CTD	013	A	1.36	22.58	22.31
CTD	013	A	1.66	22.58	22.32
CTD	013	A	1.96	22.57	22.31
CTD	013	A	2.26	22.57	22.30
CTD	013	A	2.57	22.58	22.27
CTD	013	A	2.87	22.57	22.27
CTD	013	A	3.17	22.57	22.26
CTD	013	A	3.47	22.57	22.27
CTD	013	A	3.77	22.58	22.28
CTD	013	A	4.08	22.59	22.30
CTD	013	A	4.38	22.60	22.34
CTD	013	A	4.68	22.60	22.36
CTD	013	A	4.98	22.61	22.39

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	013	A	5.28	22.63	22.39
CTD	013	A	5.59	22.66	22.51
CTD	013	A	5.89	22.68	22.69
CTD	013	A	6.19	22.68	22.80
CTD	013	A	6.49	22.70	22.86
CTD	013	A	6.79	22.72	23.04
CTD	013	A	7.09	22.74	23.36
CTD	013	A	7.40	22.74	23.47
CTD	013	A	7.70	22.74	23.57
CTD	013	A	8.00	22.75	23.64
CTD	013	A	8.30	22.75	23.77
CTD	013	A	8.60	22.75	23.92
CTD	013	A	8.90	22.74	24.10
CTD	013	A	9.21	22.75	24.34
CTD	013	A	9.51	22.75	24.41
CTD	013	A	9.81	22.74	24.46
CTD	013	A	10.11	22.74	24.52
CTD	013	A	10.41	22.74	24.53
CTD	013	A	10.71	22.74	24.54
CTD	013	A	11.01	22.74	24.56
CTD	013	A	11.32	22.74	24.56
CTD	013	A	11.62	22.74	24.56
CTD	013	A	11.92	22.74	24.58
CTD	013	A	12.22	22.74	24.58
CTD	013	A	12.52	22.74	24.58
CTD	013	A	12.82	22.74	24.58
CTD	013	A	13.12	22.74	24.59
CTD	013	A	13.43	22.74	24.59
CTD	013	A	13.73	22.73	24.60
CTD	013	A	14.15	22.73	24.60

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	014	A	0.15	22.57	22.69
CTD	014	A	0.45	22.56	22.69
CTD	014	A	0.75	22.56	22.69
CTD	014	A	1.06	22.56	22.67
CTD	014	A	1.36	22.56	22.67
CTD	014	A	1.66	22.56	22.66
CTD	014	A	1.96	22.55	22.66
CTD	014	A	2.26	22.55	22.66
CTD	014	A	2.56	22.55	22.66
CTD	014	A	2.87	22.55	22.65
CTD	014	A	3.17	22.56	22.64
CTD	014	A	3.47	22.57	22.64
CTD	014	A	3.77	22.58	22.64
CTD	014	A	4.07	22.60	22.63
CTD	014	A	4.37	22.65	22.74
CTD	014	A	4.67	22.68	23.13
CTD	014	A	4.98	22.70	23.28
CTD	014	A	5.28	22.71	23.38
CTD	014	A	5.58	22.73	23.49
CTD	014	A	5.88	22.75	23.52
CTD	014	A	6.18	22.76	23.55
CTD	014	A	6.48	22.77	23.58
CTD	014	A	6.78	22.78	23.65
CTD	014	A	7.09	22.78	23.69
CTD	014	A	7.39	22.79	23.70
CTD	014	A	7.69	22.79	23.70
CTD	014	A	7.99	22.79	23.71
CTD	014	A	8.29	22.79	23.74
CTD	014	A	8.59	22.79	23.74
CTD	014	A	8.89	22.79	23.75

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	014	A	9.20	22.79	23.78
CTD	014	A	9.50	22.79	23.80
CTD	014	A	9.80	22.79	23.80
CTD	014	A	10.10	22.79	23.82
CTD	014	A	10.40	22.79	23.83
CTD	014	A	10.70	22.79	23.84
CTD	014	A	11.00	22.79	23.86
CTD	014	A	11.31	22.79	23.88
CTD	014	A	11.61	22.79	23.91
CTD	014	A	11.91	22.79	23.95
CTD	014	A	12.21	22.79	23.96
CTD	014	A	12.51	22.79	23.97
CTD	014	A	12.81	22.79	23.98
CTD	014	A	13.11	22.79	23.99
CTD	014	A	13.41	22.78	24.00
CTD	014	A	13.75	22.78	23.99
CTD	015	A	0.15	22.64	21.89
CTD	015	A	0.45	22.63	21.90
CTD	015	A	0.75	22.63	21.90
CTD	015	A	1.06	22.63	21.90
CTD	015	A	1.36	22.63	21.90
CTD	015	A	1.66	22.62	21.90
CTD	015	A	1.96	22.62	21.90
CTD	015	A	2.26	22.61	21.90
CTD	015	A	2.57	22.62	21.90
CTD	015	A	2.87	22.62	21.90
CTD	015	A	3.17	22.62	21.90
CTD	015	A	3.47	22.62	21.90
CTD	015	A	3.77	22.62	21.90
CTD	015	A	4.07	22.62	21.90

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	015	A	4.38	22.62	21.90
CTD	015	A	4.68	22.63	21.90
CTD	015	A	4.98	22.63	21.90
CTD	015	A	5.28	22.63	21.91
CTD	015	A	5.58	22.64	21.91
CTD	015	A	5.88	22.64	21.91
CTD	015	A	6.19	22.64	21.91
CTD	015	A	6.49	22.65	21.91
CTD	015	A	6.79	22.66	21.91
CTD	015	A	7.09	22.67	21.97
CTD	015	A	7.39	22.67	21.96
CTD	015	A	7.70	22.67	21.96
CTD	015	A	8.00	22.67	21.97
CTD	015	A	8.30	22.67	21.96
CTD	015	A	8.60	22.68	22.04
CTD	015	A	8.90	22.68	22.07
CTD	015	A	9.20	22.68	22.09
CTD	015	A	9.51	22.69	22.13
CTD	015	A	9.81	22.69	22.13
CTD	015	A	10.11	22.69	22.13
CTD	015	A	10.41	22.69	22.15
CTD	015	A	10.71	22.69	22.16
CTD	015	A	11.01	22.69	22.16
CTD	015	A	11.32	22.69	22.18
CTD	015	A	11.62	22.69	22.19
CTD	015	A	11.92	22.69	22.20
CTD	015	A	12.22	22.69	22.21
CTD	015	A	12.52	22.70	22.20
CTD	015	A	12.82	22.69	22.21
CTD	015	A	13.11	22.69	22.21

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	016	A	0.15	22.56	22.01
CTD	016	A	0.45	22.50	21.95
CTD	016	A	0.75	22.48	21.99
CTD	016	A	1.06	22.46	21.96
CTD	016	A	1.36	22.51	21.97
CTD	016	A	1.66	22.57	22.02
CTD	016	A	1.96	22.57	22.01
CTD	016	A	2.26	22.57	22.02
CTD	016	A	2.56	22.59	22.05
CTD	016	A	2.87	22.60	22.09
CTD	016	A	3.17	22.60	22.10
CTD	016	A	3.47	22.61	22.13
CTD	016	A	3.77	22.62	22.13
CTD	016	A	4.07	22.62	22.14
CTD	016	A	4.38	22.62	22.14
CTD	016	A	4.68	22.62	22.13
CTD	016	A	4.98	22.63	22.14
CTD	016	A	5.28	22.63	22.14
CTD	016	A	5.58	22.63	22.13
CTD	016	A	5.88	22.63	22.11
CTD	016	A	6.19	22.63	22.12
CTD	016	A	6.49	22.63	22.12
CTD	016	A	6.79	22.64	22.12
CTD	016	A	7.09	22.64	22.10
CTD	016	A	7.39	22.64	22.10
CTD	016	A	7.69	22.64	22.10
CTD	016	A	8.00	22.64	22.11
CTD	016	A	8.30	22.64	22.11
CTD	016	A	8.60	22.64	22.11
CTD	016	A	8.90	22.64	22.10

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	016	A	9.20	22.64	22.11
CTD	016	A	9.50	22.64	22.11
CTD	016	A	9.81	22.64	22.09
CTD	016	A	10.11	22.64	22.10
CTD	016	A	10.41	22.64	22.11
CTD	016	A	10.71	22.64	22.10
CTD	016	A	11.01	22.64	22.08
CTD	016	A	11.32	22.64	22.07
CTD	016	A	11.62	22.65	22.06
CTD	016	A	11.92	22.64	22.06
CTD	016	A	12.15	22.64	22.06
CTD	017	A	0.15	22.49	21.70
CTD	017	A	0.45	22.46	21.70
CTD	017	A	0.75	22.48	21.70
CTD	017	A	1.06	22.48	21.70
CTD	017	A	1.36	22.48	21.71
CTD	017	A	1.66	22.47	21.71
CTD	017	A	1.96	22.47	21.72
CTD	017	A	2.26	22.47	21.72
CTD	017	A	2.57	22.47	21.72
CTD	017	A	2.87	22.48	21.71
CTD	017	A	3.17	22.49	21.71
CTD	017	A	3.47	22.50	21.71
CTD	017	A	3.77	22.51	21.72
CTD	017	A	4.07	22.52	21.74
CTD	017	A	4.38	22.54	21.76
CTD	017	A	4.68	22.55	21.81
CTD	017	A	4.98	22.56	21.88
CTD	017	A	5.28	22.57	21.92
CTD	017	A	5.58	22.57	21.96

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	017	A	5.89	22.58	22.00
CTD	017	A	6.19	22.58	22.02
CTD	017	A	6.49	22.58	22.04
CTD	017	A	6.79	22.58	22.06
CTD	017	A	7.09	22.58	22.07
CTD	017	A	7.39	22.58	22.08
CTD	017	A	7.70	22.58	22.09
CTD	017	A	8.00	22.58	22.10
CTD	017	A	8.30	22.58	22.10
CTD	017	A	8.60	22.58	22.13
CTD	017	A	8.90	22.59	22.15
CTD	017	A	9.20	22.59	22.16
CTD	017	A	9.51	22.59	22.19
CTD	017	A	9.81	22.59	22.23
CTD	017	A	10.11	22.59	22.33
CTD	017	A	10.41	22.59	22.56
CTD	017	A	10.71	22.58	23.26
CTD	017	A	11.01	22.57	24.08
CTD	017	A	11.32	22.57	24.75
CTD	017	A	11.62	22.57	25.25
CTD	017	A	11.92	22.57	25.63
CTD	017	A	12.22	22.57	25.65
CTD	017	A	12.52	22.57	25.64
CTD	017	A	12.82	22.56	25.73
CTD	017	A	13.12	22.56	25.74
CTD	017	A	13.42	22.54	25.84
CTD	017	A	13.66	22.54	25.84
CTD	018	A	0.15	22.45	21.98
CTD	018	A	0.45	22.44	21.98
CTD	018	A	0.75	22.44	21.98

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	018	A	1.06	22.44	21.97
CTD	018	A	1.36	22.45	21.96
CTD	018	A	1.66	22.45	22.05
CTD	018	A	1.96	22.44	22.00
CTD	018	A	2.26	22.46	22.04
CTD	018	A	2.56	22.47	22.13
CTD	018	A	2.87	22.47	22.14
CTD	018	A	3.17	22.47	22.18
CTD	018	A	3.47	22.47	22.12
CTD	018	A	3.77	22.48	22.14
CTD	018	A	4.07	22.48	22.15
CTD	018	A	4.38	22.48	22.16
CTD	018	A	4.68	22.50	22.23
CTD	018	A	4.98	22.51	22.33
CTD	018	A	5.28	22.52	22.36
CTD	018	A	5.58	22.53	22.48
CTD	018	A	5.88	22.55	22.61
CTD	018	A	6.19	22.55	22.72
CTD	018	A	6.49	22.55	22.72
CTD	018	A	6.79	22.55	22.73
CTD	018	A	7.09	22.56	22.74
CTD	018	A	7.39	22.55	22.77
CTD	018	A	7.69	22.55	22.79
CTD	018	A	7.99	22.55	22.86
CTD	018	A	8.30	22.55	22.99
CTD	018	A	8.60	22.56	23.05
CTD	018	A	8.90	22.57	23.12
CTD	018	A	9.20	22.58	23.40
CTD	018	A	9.50	22.59	23.56
CTD	018	A	9.80	22.58	23.84
CTD	018	A	10.10	22.58	24.04

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	018	A	10.41	22.57	24.17
CTD	018	A	10.71	22.57	24.37
CTD	018	A	11.01	22.58	24.58
CTD	018	A	11.31	22.58	24.66
CTD	018	A	11.61	22.59	24.74
CTD	018	A	11.91	22.59	24.82
CTD	018	A	12.21	22.59	24.91
CTD	018	A	12.51	22.59	25.01
CTD	018	A	12.82	22.59	25.07
CTD	018	A	13.12	22.59	25.16
CTD	018	A	13.42	22.57	25.26
CTD	018	A	13.78	22.57	25.34
CTD	019	A	0.15	22.74	24.42
CTD	019	A	0.45	22.75	24.62
CTD	019	A	0.75	22.76	25.01
CTD	019	A	1.05	22.76	25.15
CTD	019	A	1.36	22.76	25.15
CTD	019	A	1.66	22.75	24.98
CTD	019	A	1.96	22.75	24.99
CTD	019	A	2.26	22.75	25.19
CTD	019	A	2.56	22.75	25.25
CTD	019	A	2.86	22.76	25.29
CTD	019	A	3.16	22.76	25.31
CTD	019	A	3.47	22.76	25.33
CTD	019	A	3.77	22.76	25.37
CTD	019	A	4.07	22.76	25.44
CTD	019	A	4.37	22.76	25.45
CTD	019	A	4.67	22.76	25.46
CTD	019	A	4.97	22.76	25.50
CTD	019	A	5.27	22.75	25.56

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	019	A	5.57	22.75	25.59
CTD	019	A	5.87	22.74	25.65
CTD	019	A	6.18	22.74	25.70
CTD	019	A	6.48	22.74	25.73
CTD	019	A	6.78	22.73	25.75
CTD	019	A	7.08	22.72	25.83
CTD	019	A	7.38	22.70	25.96
CTD	019	A	7.68	22.69	26.03
CTD	019	A	7.98	22.68	26.07
CTD	019	A	8.28	22.68	26.20
CTD	019	A	8.58	22.67	26.48
CTD	019	A	8.89	22.66	26.58
CTD	019	A	9.19	22.65	26.75
CTD	019	A	9.49	22.63	26.97
CTD	019	A	9.79	22.63	27.13
CTD	019	A	10.09	22.62	27.24
CTD	019	A	10.39	22.60	27.27
CTD	019	A	10.69	22.60	27.31
CTD	019	A	10.99	22.60	27.30
CTD	019	A	11.29	22.60	27.31
CTD	019	A	11.59	22.60	27.31
CTD	019	A	11.89	22.60	27.31
CTD	019	A	12.19	22.59	27.33
CTD	019	A	12.50	22.59	27.34
CTD	019	A	12.74	22.59	27.34
CTD	020	A	0.15	22.36	22.25
CTD	020	A	0.45	22.37	22.24
CTD	020	A	0.75	22.39	22.26
CTD	020	A	1.06	22.40	22.34
CTD	020	A	1.36	22.42	22.37

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	020	A	1.66	22.44	22.46
CTD	020	A	1.96	22.45	22.66
CTD	020	A	2.26	22.46	22.81
CTD	020	A	2.56	22.48	23.02
CTD	020	A	2.87	22.50	23.35
CTD	020	A	3.17	22.50	23.65
CTD	020	A	3.47	22.52	24.08
CTD	020	A	3.77	22.53	24.20
CTD	020	A	4.07	22.53	24.35
CTD	020	A	4.37	22.54	24.43
CTD	020	A	4.67	22.55	24.44
CTD	020	A	4.97	22.55	24.58
CTD	020	A	5.28	22.55	24.65
CTD	020	A	5.58	22.55	24.62
CTD	020	A	5.88	22.55	24.69
CTD	020	A	6.18	22.56	24.76
CTD	020	A	6.48	22.56	24.83
CTD	020	A	6.78	22.56	24.87
CTD	020	A	7.08	22.56	24.90
CTD	020	A	7.38	22.56	24.94
CTD	020	A	7.68	22.56	25.02
CTD	020	A	7.99	22.56	25.05
CTD	020	A	8.29	22.56	25.08
CTD	020	A	8.59	22.56	25.12
CTD	020	A	8.89	22.56	25.18
CTD	020	A	9.19	22.56	25.20
CTD	020	A	9.49	22.56	25.32
CTD	020	A	9.79	22.56	25.38
CTD	020	A	10.09	22.56	25.40
CTD	020	A	10.39	22.56	25.52
CTD	020	A	10.69	22.56	25.63

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	020	A	11.00	22.56	25.65
CTD	020	A	11.30	22.56	25.63
CTD	020	A	11.60	22.56	25.64
CTD	020	A	11.90	22.56	25.64
CTD	020	A	12.20	22.55	25.67
CTD	020	A	12.37	22.55	25.67
CTD	021	A	0.15	22.78	23.73
CTD	021	A	0.45	22.76	23.90
CTD	021	A	0.75	22.72	23.78
CTD	021	A	1.06	22.70	24.11
CTD	021	A	1.36	22.70	24.18
CTD	021	A	1.66	22.70	24.13
CTD	021	A	1.96	22.70	24.12
CTD	021	A	2.26	22.68	24.15
CTD	021	A	2.56	22.66	24.37
CTD	021	A	2.86	22.65	24.41
CTD	021	A	3.17	22.65	24.48
CTD	021	A	3.47	22.65	24.52
CTD	021	A	3.77	22.63	24.76
CTD	021	A	4.07	22.61	24.77
CTD	021	A	4.37	22.59	24.78
CTD	021	A	4.67	22.57	24.82
CTD	021	A	4.97	22.55	24.88
CTD	021	A	5.28	22.52	24.90
CTD	021	A	5.58	22.51	24.98
CTD	021	A	5.88	22.50	25.00
CTD	021	A	6.18	22.49	25.07
CTD	021	A	6.48	22.48	25.11
CTD	021	A	6.78	22.47	25.17
CTD	021	A	7.08	22.47	25.19

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	021	A	7.38	22.46	25.20
CTD	021	A	7.69	22.45	25.22
CTD	021	A	7.99	22.45	25.23
CTD	021	A	8.29	22.45	25.24
CTD	021	A	8.59	22.44	25.24
CTD	021	A	8.89	22.44	25.23
CTD	021	A	9.19	22.45	25.23
CTD	021	A	9.49	22.44	25.24
CTD	021	A	9.67	22.44	25.23
CTD	022	A	0.15	22.85	23.91
CTD	022	A	0.45	22.82	23.69
CTD	022	A	0.75	22.77	23.76
CTD	022	A	1.06	22.76	24.07
CTD	022	A	1.36	22.76	24.08
CTD	022	A	1.66	22.79	24.01
CTD	022	A	1.96	22.80	24.01
CTD	022	A	2.26	22.77	24.15
CTD	022	A	2.56	22.76	24.31
CTD	022	A	2.86	22.75	24.37
CTD	022	A	3.17	22.73	24.45
CTD	022	A	3.47	22.67	24.50
CTD	022	A	3.77	22.63	24.70
CTD	022	A	4.07	22.62	24.75
CTD	022	A	4.37	22.61	24.70
CTD	022	A	4.67	22.59	24.78
CTD	022	A	4.97	22.57	24.82
CTD	022	A	5.28	22.57	24.82
CTD	022	A	5.58	22.56	24.82
CTD	022	A	5.88	22.54	24.88
CTD	022	A	6.18	22.53	24.96

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	022	A	6.48	22.52	25.04
CTD	022	A	6.78	22.51	25.08
CTD	022	A	7.08	22.51	25.11
CTD	022	A	7.39	22.50	25.13
CTD	022	A	7.69	22.49	25.15
CTD	022	A	7.99	22.48	25.17
CTD	022	A	8.29	22.48	25.17
CTD	022	A	8.59	22.49	25.17
CTD	022	A	8.89	22.48	25.17
CTD	022	A	9.19	22.47	25.18
CTD	022	A	9.41	22.47	25.20
CTD	023	A	0.15	22.72	24.45
CTD	023	A	0.45	22.71	24.45
CTD	023	A	0.75	22.71	24.46
CTD	023	A	1.06	22.70	24.47
CTD	023	A	1.36	22.69	24.48
CTD	023	A	1.66	22.68	24.51
CTD	023	A	1.96	22.67	24.55
CTD	023	A	2.26	22.67	24.57
CTD	023	A	2.56	22.66	24.57
CTD	023	A	2.86	22.66	24.59
CTD	023	A	3.17	22.65	24.63
CTD	023	A	3.47	22.64	24.68
CTD	023	A	3.77	22.64	24.69
CTD	023	A	4.07	22.65	24.68
CTD	023	A	4.37	22.65	24.66
CTD	023	A	4.67	22.65	24.70
CTD	023	A	4.97	22.65	24.71
CTD	023	A	5.27	22.66	24.65
CTD	023	A	5.58	22.66	24.69

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	023	A	5.88	22.65	24.70
CTD	023	A	6.18	22.65	24.74
CTD	023	A	6.48	22.63	24.79
CTD	023	A	6.78	22.62	24.84
CTD	023	A	7.08	22.60	24.92
CTD	023	A	7.38	22.59	25.02
CTD	023	A	7.69	22.58	25.07
CTD	023	A	7.99	22.58	25.11
CTD	023	A	8.29	22.56	25.14
CTD	023	A	8.59	22.56	25.16
CTD	023	A	8.89	22.55	25.17
CTD	023	A	9.19	22.55	25.18
CTD	023	A	9.49	22.55	25.19
CTD	023	A	9.79	22.54	25.19
CTD	023	A	10.10	22.54	25.19
CTD	023	A	10.40	22.53	25.21
CTD	023	A	10.70	22.53	25.21
CTD	023	A	11.00	22.53	25.21
CTD	023	A	11.30	22.53	25.21
CTD	023	A	11.60	22.52	25.22
CTD	023	A	11.90	22.53	25.22
CTD	023	A	12.20	22.54	25.21
CTD	023	A	12.51	22.55	25.21
CTD	023	A	12.81	22.54	25.21
CTD	023	A	13.11	22.50	25.23
CTD	023	A	13.48	22.47	25.24
CTD	024	A	0.15	22.28	26.77
CTD	024	A	0.45	22.29	26.77
CTD	024	A	0.75	22.23	26.85
CTD	024	A	1.05	22.20	26.97
CTD	024	A	1.35	22.19	27.04
CTD	024	A	1.65	22.20	27.05
CTD	024	A	1.96	22.20	27.09
CTD	024	A	2.26	22.21	27.11
CTD	024	A	2.56	22.20	27.11
CTD	024	A	2.86	22.19	27.13
CTD	024	A	3.16	22.18	27.18
CTD	024	A	3.46	22.15	27.23
CTD	024	A	3.76	22.14	27.32
CTD	024	A	4.06	22.14	27.36
CTD	024	A	4.36	22.13	27.38
CTD	024	A	4.66	22.13	27.39
CTD	024	A	4.96	22.12	27.41
CTD	024	A	5.26	22.11	27.42
CTD	024	A	5.56	22.11	27.44
CTD	024	A	5.87	22.10	27.46
CTD	024	A	6.17	22.10	27.47
CTD	024	A	6.47	22.10	27.48
CTD	024	A	6.77	22.09	27.49
CTD	024	A	7.07	22.09	27.50
CTD	024	A	7.37	22.08	27.50
CTD	024	A	7.67	22.08	27.51
CTD	024	A	7.97	22.08	27.51
CTD	024	A	8.27	22.08	27.52
CTD	024	A	8.57	22.07	27.53
CTD	024	A	8.87	22.07	27.55
CTD	024	A	9.17	22.06	27.57
CTD	024	A	9.47	22.06	27.63
CTD	024	A	9.77	22.04	27.68
CTD	024	A	10.08	22.03	27.74
CTD	024	A	10.38	22.02	27.79
CTD	024	A	10.68	22.01	27.83
CTD	024	A	10.98	22.01	27.86
CTD	024	A	11.28	22.00	27.89
CTD	024	A	11.58	21.99	27.92
CTD	024	A	11.88	21.99	27.93
CTD	024	A	12.18	21.99	27.96
CTD	024	A	12.48	21.99	27.97
CTD	024	A	12.78	21.99	27.98
CTD	024	A	13.08	21.99	27.98
CTD	024	A	13.38	21.98	28.00
CTD	024	A	13.68	21.98	28.00
CTD	024	A	13.98	21.98	28.01
CTD	024	A	14.28	21.97	28.01
CTD	024	A	14.58	21.97	28.02
CTD	024	A	14.88	21.97	28.02
CTD	024	A	15.19	21.97	28.03
CTD	024	A	15.49	21.97	28.05
CTD	024	A	15.79	21.97	28.06
CTD	024	A	16.09	21.97	28.06
CTD	024	A	16.39	21.97	28.06
CTD	024	A	16.69	21.97	28.06
CTD	024	A	16.99	21.97	28.07
CTD	024	A	17.30	21.97	28.07
CTD	025	A	0.15	22.48	25.93
CTD	025	A	0.45	22.44	25.96
CTD	025	A	0.75	22.43	26.02
CTD	025	A	1.05	22.44	26.02
CTD	025	A	1.35	22.45	26.02
CTD	025	A	1.66	22.40	26.10
CTD	025	A	1.96	22.38	26.21

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	025	A	2.26	22.35	26.28
CTD	025	A	2.56	22.33	26.27
CTD	025	A	2.86	22.31	26.23
CTD	025	A	3.16	22.30	26.38
CTD	025	A	3.46	22.29	26.49
CTD	025	A	3.76	22.29	26.52
CTD	025	A	4.06	22.28	26.53
CTD	025	A	4.36	22.27	26.56
CTD	025	A	4.67	22.26	26.64
CTD	025	A	4.97	22.24	26.72
CTD	025	A	5.27	22.23	26.80
CTD	025	A	5.57	22.22	26.91
CTD	025	A	5.87	22.21	26.90
CTD	025	A	6.17	22.21	26.92
CTD	025	A	6.47	22.20	26.99
CTD	025	A	6.77	22.19	27.04
CTD	025	A	7.07	22.18	27.10
CTD	025	A	7.37	22.17	27.13
CTD	025	A	7.67	22.16	27.15
CTD	025	A	7.97	22.15	27.17
CTD	025	A	8.28	22.13	27.32
CTD	025	A	8.58	22.13	27.34
CTD	025	A	8.88	22.11	27.39
CTD	025	A	9.18	22.09	27.40
CTD	025	A	9.48	22.07	27.54
CTD	025	A	9.78	22.07	27.58
CTD	025	A	10.08	22.05	27.62
CTD	025	A	10.38	22.03	27.76
CTD	025	A	10.68	22.03	27.81
CTD	025	A	10.98	22.03	27.85
CTD	025	A	11.28	22.03	27.87
CTD	025	A	11.58	22.03	27.88
CTD	025	A	11.88	22.02	27.88
CTD	025	A	12.18	22.02	27.89
CTD	025	A	12.49	22.02	27.90
CTD	025	A	12.79	22.01	27.93
CTD	025	A	13.09	22.01	27.99
CTD	025	A	13.39	22.01	28.02
CTD	025	A	13.69	22.01	28.08
CTD	025	A	13.99	22.00	28.11
CTD	025	A	14.29	22.00	28.13
CTD	025	A	14.59	22.00	28.16
CTD	025	A	14.89	21.99	28.17
CTD	025	A	15.19	21.99	28.19
CTD	025	A	15.49	21.98	28.21
CTD	025	A	15.79	21.98	28.22
CTD	025	A	16.09	21.98	28.23
CTD	025	A	16.39	21.98	28.24
CTD	025	A	16.69	21.98	28.26
CTD	025	A	16.99	21.97	28.27
CTD	025	A	17.29	21.97	28.27
CTD	025	A	17.59	21.97	28.28
CTD	025	A	17.89	21.97	28.29
CTD	025	A	18.20	21.97	28.30
CTD	025	A	18.50	21.97	28.31
CTD	025	A	18.80	21.97	28.31
CTD	025	A	19.10	21.96	28.31
CTD	025	A	19.40	21.96	28.32
CTD	025	A	19.70	21.96	28.32
CTD	025	A	20.00	21.96	28.32
CTD	025	A	20.30	21.96	28.33
CTD	025	A	20.60	21.96	28.33
CTD	025	A	20.90	21.96	28.33
CTD	025	A	21.20	21.96	28.33
CTD	025	A	21.50	21.96	28.33
CTD	025	A	21.80	21.96	28.34
CTD	025	A	22.10	21.96	28.33
CTD	025	A	22.40	21.96	28.33
CTD	025	A	22.70	21.96	28.33
CTD	025	A	23.00	21.96	28.33
CTD	025	A	23.30	21.96	28.34
CTD	025	A	23.60	21.96	28.34
CTD	025	A	23.90	21.96	28.35
CTD	025	A	24.21	21.96	28.35
CTD	025	A	24.36	21.96	28.35
CTD	026	A	0.15	22.49	25.13
CTD	026	A	0.45	22.49	25.12
CTD	026	A	0.75	22.48	25.15
CTD	026	A	1.05	22.48	25.19
CTD	026	A	1.36	22.49	25.16
CTD	026	A	1.66	22.49	25.13
CTD	026	A	1.96	22.49	25.09
CTD	026	A	2.26	22.48	25.09
CTD	026	A	2.56	22.47	25.12
CTD	026	A	2.86	22.47	25.18
CTD	026	A	3.16	22.47	25.18
CTD	026	A	3.46	22.47	25.41
CTD	026	A	3.77	22.45	25.49
CTD	026	A	4.07	22.42	25.56
CTD	026	A	4.37	22.37	25.85
CTD	026	A	4.67	22.33	26.12
CTD	026	A	4.97	22.30	26.19

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	026	A	5.27	22.27	26.55
CTD	026	A	5.57	22.26	26.63
CTD	026	A	5.87	22.25	26.75
CTD	026	A	6.17	22.23	26.90
CTD	026	A	6.47	22.22	27.07
CTD	026	A	6.78	22.20	27.17
CTD	026	A	7.08	22.18	27.32
CTD	026	A	7.38	22.14	27.57
CTD	026	A	7.68	22.12	27.68
CTD	026	A	7.98	22.11	27.75
CTD	026	A	8.28	22.08	27.83
CTD	026	A	8.58	22.07	27.90
CTD	026	A	8.88	22.05	27.98
CTD	026	A	9.18	22.03	28.06
CTD	026	A	9.48	22.01	28.12
CTD	026	A	9.78	22.00	28.16
CTD	026	A	10.08	21.99	28.23
CTD	026	A	10.38	21.98	28.25
CTD	026	A	10.68	21.97	28.29
CTD	026	A	10.98	21.96	28.38
CTD	026	A	11.28	21.95	28.40
CTD	026	A	11.59	21.95	28.42
CTD	026	A	11.89	21.94	28.45
CTD	026	A	12.19	21.93	28.47
CTD	026	A	12.49	21.93	28.50
CTD	026	A	12.79	21.91	28.52
CTD	026	A	13.09	21.91	28.53
CTD	026	A	13.39	21.90	28.54
CTD	026	A	13.69	21.90	28.55
CTD	026	A	13.99	21.89	28.56
CTD	026	A	14.29	21.89	28.58
CTD	026	A	14.59	21.88	28.60
CTD	026	A	14.89	21.87	28.63
CTD	026	A	15.19	21.87	28.64
CTD	026	A	15.49	21.87	28.64
CTD	026	A	15.79	21.87	28.65
CTD	026	A	16.09	21.87	28.66
CTD	026	A	16.39	21.86	28.67
CTD	026	A	16.69	21.86	28.70
CTD	026	A	16.99	21.86	28.71
CTD	026	A	17.29	21.86	28.72
CTD	026	A	17.59	21.86	28.72
CTD	026	A	17.89	21.85	28.74
CTD	026	A	18.19	21.85	28.76
CTD	026	A	18.50	21.85	28.76
CTD	026	A	18.80	21.85	28.76
CTD	026	A	19.10	21.85	28.77
CTD	026	A	19.40	21.85	28.77
CTD	026	A	19.70	21.85	28.77
CTD	026	A	20.00	21.85	28.77
CTD	026	A	20.30	21.85	28.77
CTD	026	A	20.60	21.85	28.79
CTD	026	A	20.90	21.85	28.79
CTD	026	A	21.20	21.85	28.79
CTD	026	A	21.50	21.85	28.80
CTD	026	A	21.80	21.85	28.80
CTD	026	A	22.10	21.85	28.80
CTD	026	A	22.40	21.85	28.81
CTD	026	A	22.70	21.85	28.81
CTD	026	A	23.00	21.85	28.81
CTD	026	A	23.30	21.85	28.81
CTD	026	A	23.60	21.85	28.81
CTD	026	A	23.90	21.85	28.81
CTD	026	A	24.20	21.85	28.81
CTD	026	A	24.50	21.85	28.81
CTD	026	A	24.80	21.85	28.81
CTD	026	A	25.10	21.85	28.81
CTD	026	A	25.40	21.85	28.81
CTD	026	A	25.70	21.85	28.82
CTD	026	A	26.00	21.84	28.82
CTD	026	A	26.31	21.85	28.82
CTD	026	A	26.61	21.85	28.82
CTD	026	A	26.91	21.85	28.82
CTD	026	A	27.21	21.85	28.81
CTD	026	A	27.51	21.85	28.81
CTD	026	A	27.81	21.85	28.81
CTD	026	A	28.11	21.85	28.81
CTD	026	A	28.41	21.85	28.81
CTD	026	A	28.71	21.85	28.81
CTD	026	A	29.01	21.85	28.81
CTD	026	A	29.38	21.85	28.81
CTD	027	A	0.15	22.44	25.44
CTD	027	A	0.45	22.43	25.44
CTD	027	A	0.75	22.42	25.50
CTD	027	A	1.05	22.41	25.61
CTD	027	A	1.35	22.41	25.71
CTD	027	A	1.66	22.40	25.79
CTD	027	A	1.96	22.40	25.87
CTD	027	A	2.26	22.39	25.90
CTD	027	A	2.56	22.39	25.88
CTD	027	A	2.86	22.37	25.90
CTD	027	A	3.16	22.35	26.11

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	027	A	3.46	22.34	26.22
CTD	027	A	3.76	22.33	26.27
CTD	027	A	4.06	22.33	26.32
CTD	027	A	4.36	22.32	26.36
CTD	027	A	4.66	22.31	26.42
CTD	027	A	4.96	22.31	26.46
CTD	027	A	5.26	22.30	26.52
CTD	027	A	5.57	22.30	26.53
CTD	027	A	5.87	22.29	26.54
CTD	027	A	6.17	22.28	26.60
CTD	027	A	6.47	22.27	26.69
CTD	027	A	6.77	22.26	26.75
CTD	027	A	7.07	22.25	26.82
CTD	027	A	7.37	22.25	26.89
CTD	027	A	7.67	22.24	27.01
CTD	027	A	7.97	22.23	27.13
CTD	027	A	8.27	22.23	27.23
CTD	027	A	8.57	22.21	27.28
CTD	027	A	8.87	22.20	27.33
CTD	027	A	9.17	22.19	27.37
CTD	027	A	9.47	22.17	27.55
CTD	027	A	9.77	22.16	27.64
CTD	027	A	10.07	22.15	27.68
CTD	027	A	10.37	22.14	27.77
CTD	027	A	10.68	22.14	27.81
CTD	027	A	10.98	22.13	27.85
CTD	027	A	11.28	22.13	27.86
CTD	027	A	11.58	22.12	27.89
CTD	027	A	11.88	22.11	27.96
CTD	027	A	12.18	22.09	28.05
CTD	027	A	12.48	22.08	28.09
CTD	027	A	12.78	22.07	28.12
CTD	027	A	13.08	22.07	28.13
CTD	027	A	13.38	22.06	28.21
CTD	027	A	13.68	22.06	28.27
CTD	027	A	13.98	22.05	28.31
CTD	027	A	14.28	22.04	28.39
CTD	027	A	14.58	22.03	28.42
CTD	027	A	14.88	22.02	28.47
CTD	027	A	15.18	22.01	28.50
CTD	027	A	15.48	22.00	28.53
CTD	027	A	15.78	21.99	28.54
CTD	027	A	16.08	21.98	28.56
CTD	027	A	16.38	21.97	28.59
CTD	027	A	16.68	21.96	28.61
CTD	027	A	16.98	21.96	28.62
CTD	027	A	17.28	21.96	28.63
CTD	027	A	17.58	21.95	28.64
CTD	027	A	17.88	21.95	28.65
CTD	027	A	18.18	21.94	28.68
CTD	027	A	18.48	21.93	28.70
CTD	027	A	18.78	21.93	28.71
CTD	027	A	19.08	21.92	28.73
CTD	027	A	19.38	21.91	28.75
CTD	027	A	19.68	21.91	28.78
CTD	027	A	19.98	21.90	28.78
CTD	027	A	20.28	21.90	28.78
CTD	027	A	20.58	21.90	28.78
CTD	027	A	20.88	21.90	28.79
CTD	027	A	21.18	21.89	28.79
CTD	027	A	21.48	21.89	28.78
CTD	027	A	21.78	21.89	28.79
CTD	027	A	22.08	21.89	28.80
CTD	027	A	22.38	21.89	28.80
CTD	027	A	22.68	21.89	28.82
CTD	027	A	22.98	21.88	28.84
CTD	027	A	23.28	21.88	28.86
CTD	027	A	23.59	21.88	28.88
CTD	027	A	23.89	21.88	28.88
CTD	027	A	24.19	21.87	28.89
CTD	027	A	24.49	21.87	28.91
CTD	027	A	24.79	21.87	28.91
CTD	027	A	25.09	21.87	28.91
CTD	027	A	25.39	21.87	28.92
CTD	027	A	25.69	21.87	28.92
CTD	027	A	25.99	21.87	28.92
CTD	027	A	26.29	21.87	28.92
CTD	027	A	26.59	21.86	28.93
CTD	027	A	26.89	21.86	28.94
CTD	027	A	27.19	21.86	28.94
CTD	027	A	27.49	21.86	28.94
CTD	027	A	27.79	21.86	28.95
CTD	027	A	28.09	21.86	28.94
CTD	027	A	28.39	21.86	28.95
CTD	027	A	28.69	21.86	28.95
CTD	027	A	28.99	21.86	28.96
CTD	027	A	29.29	21.86	28.97
CTD	027	A	29.59	21.86	28.96
CTD	027	A	29.89	21.86	28.96
CTD	027	A	30.19	21.86	28.96
CTD	027	A	30.49	21.86	28.96
CTD	027	A	30.84	21.86	28.96

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	028	A	0.15	22.37	25.96
CTD	028	A	0.45	22.37	25.92
CTD	028	A	0.75	22.37	25.91
CTD	028	A	1.05	22.37	25.89
CTD	028	A	1.35	22.37	25.82
CTD	028	A	1.65	22.36	25.88
CTD	028	A	1.96	22.36	26.06
CTD	028	A	2.26	22.36	26.10
CTD	028	A	2.56	22.36	26.15
CTD	028	A	2.86	22.35	26.19
CTD	028	A	3.16	22.35	26.25
CTD	028	A	3.46	22.34	26.34
CTD	028	A	3.76	22.34	26.40
CTD	028	A	4.06	22.33	26.45
CTD	028	A	4.36	22.33	26.47
CTD	028	A	4.66	22.33	26.47
CTD	028	A	4.96	22.33	26.51
CTD	028	A	5.26	22.33	26.53
CTD	028	A	5.56	22.32	26.56
CTD	028	A	5.87	22.31	26.56
CTD	028	A	6.17	22.29	26.73
CTD	028	A	6.47	22.28	26.84
CTD	028	A	6.77	22.27	26.87
CTD	028	A	7.07	22.27	26.92
CTD	028	A	7.37	22.26	26.97
CTD	028	A	7.67	22.26	27.01
CTD	028	A	7.97	22.25	27.07
CTD	028	A	8.27	22.24	27.08
CTD	028	A	8.57	22.23	27.16
CTD	028	A	8.87	22.23	27.17
CTD	028	A	9.17	22.23	27.19
CTD	028	A	9.47	22.22	27.21
CTD	028	A	9.77	22.22	27.25
CTD	028	A	10.07	22.22	27.30
CTD	028	A	10.37	22.20	27.34
CTD	028	A	10.67	22.20	27.34
CTD	028	A	10.98	22.18	27.37
CTD	028	A	11.28	22.17	27.45
CTD	028	A	11.58	22.17	27.41
CTD	028	A	11.88	22.15	27.41
CTD	028	A	12.18	22.15	27.53
CTD	028	A	12.48	22.15	27.54
CTD	028	A	12.78	22.14	27.56
CTD	028	A	13.08	22.14	27.59
CTD	028	A	13.38	22.14	27.61
CTD	028	A	13.68	22.13	27.61
CTD	028	A	13.98	22.12	27.63
CTD	028	A	14.28	22.12	27.67
CTD	028	A	14.58	22.11	27.73
CTD	028	A	14.88	22.11	27.77
CTD	028	A	15.18	22.11	27.80
CTD	028	A	15.48	22.10	27.84
CTD	028	A	15.78	22.08	27.97
CTD	028	A	16.08	22.07	28.04
CTD	028	A	16.38	22.07	28.05
CTD	028	A	16.68	22.06	28.16
CTD	028	A	16.98	22.05	28.20
CTD	028	A	17.28	22.04	28.25
CTD	028	A	17.58	22.03	28.27
CTD	028	A	17.89	22.02	28.32
CTD	028	A	18.19	22.01	28.37
CTD	028	A	18.49	22.01	28.39
CTD	028	A	18.79	22.00	28.40
CTD	028	A	19.09	21.99	28.45
CTD	028	A	19.39	21.98	28.48
CTD	028	A	19.69	21.97	28.51
CTD	028	A	19.99	21.97	28.55
CTD	028	A	20.29	21.96	28.58
CTD	028	A	20.59	21.95	28.59
CTD	028	A	20.89	21.95	28.61
CTD	028	A	21.19	21.94	28.63
CTD	028	A	21.49	21.93	28.65
CTD	028	A	21.79	21.93	28.66
CTD	028	A	22.09	21.92	28.68
CTD	028	A	22.39	21.92	28.69
CTD	028	A	22.69	21.92	28.71
CTD	028	A	22.99	21.91	28.71
CTD	028	A	23.29	21.91	28.73
CTD	028	A	23.59	21.91	28.73
CTD	028	A	23.89	21.91	28.74
CTD	028	A	24.19	21.91	28.73
CTD	028	A	24.49	21.91	28.74
CTD	028	A	24.79	21.91	28.74
CTD	028	A	25.09	21.91	28.74
CTD	028	A	25.39	21.91	28.76
CTD	028	A	25.69	21.90	28.78
CTD	028	A	25.99	21.90	28.81
CTD	028	A	26.29	21.88	28.85
CTD	028	A	26.73	21.88	28.84
CTD	029	A	0.15	22.38	24.69
CTD	029	A	0.45	22.33	24.70

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	029	A	0.75	22.35	24.75
CTD	029	A	1.05	22.36	24.74
CTD	029	A	1.36	22.34	24.91
CTD	029	A	1.66	22.33	25.15
CTD	029	A	1.96	22.33	25.16
CTD	029	A	2.26	22.33	25.16
CTD	029	A	2.56	22.32	25.40
CTD	029	A	2.86	22.31	25.42
CTD	029	A	3.16	22.31	25.55
CTD	029	A	3.46	22.30	25.56
CTD	029	A	3.76	22.29	25.73
CTD	029	A	4.06	22.28	25.97
CTD	029	A	4.36	22.28	26.05
CTD	029	A	4.67	22.28	26.14
CTD	029	A	4.97	22.27	26.25
CTD	029	A	5.27	22.26	26.44
CTD	029	A	5.57	22.25	26.60
CTD	029	A	5.87	22.24	26.71
CTD	029	A	6.17	22.23	26.88
CTD	029	A	6.47	22.23	26.88
CTD	029	A	6.77	22.22	26.93
CTD	029	A	7.07	22.20	26.95
CTD	029	A	7.37	22.19	27.01
CTD	029	A	7.67	22.18	27.06
CTD	029	A	7.97	22.17	27.09
CTD	029	A	8.27	22.16	27.15
CTD	029	A	8.57	22.16	27.16
CTD	029	A	8.87	22.16	27.16
CTD	029	A	9.18	22.16	27.17
CTD	029	A	9.48	22.15	27.16
CTD	029	A	9.78	22.15	27.17
CTD	029	A	10.08	22.15	27.17
CTD	029	A	10.38	22.15	27.17
CTD	029	A	10.68	22.15	27.17
CTD	029	A	10.98	22.15	27.17
CTD	029	A	11.28	22.15	27.17
CTD	029	A	11.58	22.15	27.17
CTD	029	A	11.88	22.15	27.17
CTD	029	A	12.18	22.15	27.17
CTD	029	A	12.48	22.15	27.17
CTD	029	A	12.78	22.15	27.17
CTD	029	A	13.08	22.15	27.17
CTD	029	A	13.38	22.15	27.17
CTD	029	A	13.68	22.15	27.17
CTD	029	A	13.98	22.15	27.17
CTD	029	A	14.28	22.15	27.17
CTD	029	A	14.59	22.15	27.17
CTD	029	A	14.89	22.15	27.17
CTD	029	A	15.19	22.15	27.17
CTD	029	A	15.49	22.15	27.17
CTD	029	A	15.79	22.15	27.17
CTD	029	A	16.09	22.16	27.16
CTD	029	A	16.39	22.16	27.15
CTD	029	A	16.69	22.16	27.15
CTD	029	A	16.99	22.16	27.15
CTD	029	A	17.29	22.15	27.14
CTD	029	A	17.58	22.15	27.15
CTD	030	A	0.15	22.42	24.63
CTD	030	A	0.45	22.38	24.65
CTD	030	A	0.75	22.37	24.61
CTD	030	A	1.05	22.36	24.81
CTD	030	A	1.36	22.32	25.04
CTD	030	A	1.66	22.31	25.19
CTD	030	A	1.96	22.32	25.19
CTD	030	A	2.26	22.32	25.20
CTD	030	A	2.56	22.32	25.22
CTD	030	A	2.86	22.33	25.32
CTD	030	A	3.16	22.33	25.30
CTD	030	A	3.46	22.32	25.37
CTD	030	A	3.76	22.30	25.48
CTD	030	A	4.06	22.30	25.72
CTD	030	A	4.37	22.30	25.84
CTD	030	A	4.67	22.29	25.77
CTD	030	A	4.97	22.27	26.16
CTD	030	A	5.27	22.25	26.30
CTD	030	A	5.57	22.22	26.58
CTD	030	A	5.87	22.21	26.83
CTD	030	A	6.17	22.20	26.93
CTD	030	A	6.47	22.19	27.00
CTD	030	A	6.77	22.18	27.07
CTD	030	A	7.07	22.16	27.15
CTD	030	A	7.37	22.15	27.17
CTD	030	A	7.67	22.15	27.21
CTD	030	A	7.97	22.14	27.24
CTD	030	A	8.27	22.13	27.26
CTD	030	A	8.57	22.12	27.34
CTD	030	A	8.87	22.12	27.40
CTD	030	A	9.18	22.11	27.40
CTD	030	A	9.48	22.11	27.42
CTD	030	A	9.78	22.10	27.41
CTD	030	A	10.08	22.11	27.42
CTD	030	A	10.38	22.11	27.51

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	030	A	10.68	22.11	27.55
CTD	030	A	10.98	22.11	27.58
CTD	030	A	11.28	22.11	27.58
CTD	030	A	11.58	22.11	27.58
CTD	030	A	11.88	22.11	27.57
CTD	030	A	12.18	22.11	27.58
CTD	030	A	12.62	22.11	27.57
CTD	031	A	0.15	22.45	24.84
CTD	031	A	0.45	22.43	24.78
CTD	031	A	0.75	22.44	24.66
CTD	031	A	1.05	22.45	24.66
CTD	031	A	1.36	22.42	24.71
CTD	031	A	1.66	22.40	24.85
CTD	031	A	1.96	22.39	24.87
CTD	031	A	2.26	22.38	24.97
CTD	031	A	2.56	22.37	25.05
CTD	031	A	2.86	22.36	25.14
CTD	031	A	3.16	22.36	25.26
CTD	031	A	3.46	22.35	25.43
CTD	031	A	3.76	22.33	25.56
CTD	031	A	4.06	22.33	25.62
CTD	031	A	4.37	22.32	25.66
CTD	031	A	4.67	22.30	25.95
CTD	031	A	4.97	22.29	26.02
CTD	031	A	5.27	22.29	26.07
CTD	031	A	5.57	22.28	26.16
CTD	031	A	5.87	22.27	26.76
CTD	031	A	6.17	22.25	26.94
CTD	031	A	6.47	22.23	27.08
CTD	031	A	6.77	22.22	27.10

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	031	A	7.07	22.20	27.13
CTD	031	A	7.37	22.19	27.19
CTD	031	A	7.67	22.17	27.26
CTD	031	A	7.97	22.15	27.33
CTD	031	A	8.27	22.14	27.34
CTD	031	A	8.57	22.14	27.35
CTD	031	A	8.88	22.13	27.37
CTD	031	A	9.18	22.13	27.40
CTD	031	A	9.48	22.12	27.41
CTD	031	A	9.78	22.12	27.43
CTD	031	A	10.08	22.12	27.45
CTD	031	A	10.38	22.12	27.44
CTD	031	A	10.68	22.12	27.46
CTD	031	A	10.98	22.10	27.49
CTD	031	A	11.20	22.11	27.48
CTD	032	A	0.15	22.29	25.66
CTD	032	A	0.45	22.27	25.67
CTD	032	A	0.75	22.26	25.69
CTD	032	A	1.05	22.26	25.70
CTD	032	A	1.36	22.25	25.71
CTD	032	A	1.66	22.23	25.78
CTD	032	A	1.96	22.21	25.88
CTD	032	A	2.26	22.19	25.92
CTD	032	A	2.56	22.16	26.02
CTD	032	A	2.86	22.17	26.02
CTD	032	A	3.16	22.14	26.37
CTD	032	A	3.46	22.12	26.56
CTD	032	A	3.76	22.12	26.68
CTD	032	A	4.06	22.11	26.76
CTD	032	A	4.37	22.11	26.81

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	032	A	4.67	22.11	26.85
CTD	032	A	4.97	22.11	26.98
CTD	032	A	5.27	22.11	27.04
CTD	032	A	5.57	22.11	27.13
CTD	032	A	5.87	22.10	27.22
CTD	032	A	6.17	22.10	27.28
CTD	032	A	6.47	22.11	27.38
CTD	032	A	6.77	22.11	27.45
CTD	032	A	7.07	22.11	27.52
CTD	032	A	7.37	22.11	27.60
CTD	032	A	7.67	22.11	27.62
CTD	032	A	7.97	22.11	27.65
CTD	032	A	8.27	22.10	27.67
CTD	032	A	8.58	22.10	27.69
CTD	032	A	8.88	22.10	27.73
CTD	032	A	9.18	22.10	27.75
CTD	032	A	9.48	22.10	27.77
CTD	032	A	9.78	22.10	27.78
CTD	032	A	10.08	22.09	27.79
CTD	032	A	10.27	22.10	27.78
CTD	033	A	0.15	22.30	25.86
CTD	033	A	0.45	22.26	25.85
CTD	033	A	0.75	22.28	25.86
CTD	033	A	1.05	22.28	25.89
CTD	033	A	1.35	22.27	25.90
CTD	033	A	1.65	22.27	25.92
CTD	033	A	1.96	22.26	25.93
CTD	033	A	2.26	22.24	25.99
CTD	033	A	2.56	22.22	26.20
CTD	033	A	2.86	22.21	26.32

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	033	A	3.16	22.21	26.36
CTD	033	A	3.46	22.20	26.40
CTD	033	A	3.76	22.19	26.50
CTD	033	A	4.06	22.18	26.63
CTD	033	A	4.36	22.17	26.64
CTD	033	A	4.66	22.16	26.73
CTD	033	A	4.96	22.15	26.80
CTD	033	A	5.26	22.15	26.93
CTD	033	A	5.56	22.14	27.13
CTD	033	A	5.86	22.14	27.20
CTD	033	A	6.17	22.13	27.12
CTD	033	A	6.47	22.13	27.20
CTD	033	A	6.77	22.13	27.21
CTD	033	A	7.07	22.13	27.25
CTD	033	A	7.37	22.13	27.35
CTD	033	A	7.67	22.13	27.44
CTD	033	A	7.97	22.13	27.50
CTD	033	A	8.27	22.13	27.55
CTD	033	A	8.57	22.13	27.54
CTD	033	A	8.87	22.13	27.54
CTD	033	A	9.17	22.12	27.60
CTD	033	A	9.51	22.11	27.59
CTD	034	A	0.15	22.64	24.20
CTD	034	A	0.45	22.63	24.29
CTD	034	A	0.75	22.64	24.39
CTD	034	A	1.06	22.64	24.39
CTD	034	A	1.36	22.63	24.41
CTD	034	A	1.66	22.63	24.45
CTD	034	A	1.96	22.62	24.54
CTD	034	A	2.26	22.62	24.61

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	034	A	2.56	22.62	24.73
CTD	034	A	2.86	22.62	24.75
CTD	034	A	3.17	22.62	24.78
CTD	034	A	3.47	22.61	24.87
CTD	034	A	3.77	22.61	24.91
CTD	034	A	4.07	22.61	24.93
CTD	034	A	4.37	22.61	24.95
CTD	034	A	4.67	22.60	25.20
CTD	034	A	4.97	22.58	25.52
CTD	034	A	5.27	22.57	25.82
CTD	034	A	5.58	22.57	25.97
CTD	034	A	5.88	22.56	26.04
CTD	034	A	6.18	22.55	26.10
CTD	034	A	6.48	22.55	26.13
CTD	034	A	6.78	22.55	26.14
CTD	034	A	7.08	22.55	26.17
CTD	034	A	7.38	22.54	26.18
CTD	034	A	7.68	22.54	26.19
CTD	034	A	7.98	22.54	26.19
CTD	034	A	8.28	22.54	26.17
CTD	034	A	8.59	22.53	26.13
CTD	034	A	8.77	22.54	26.19
CTD	035	A	0.15	22.59	24.74
CTD	035	A	0.45	22.57	24.77
CTD	035	A	0.75	22.58	24.79
CTD	035	A	1.05	22.59	24.88
CTD	035	A	1.36	22.59	24.96
CTD	035	A	1.66	22.59	25.02
CTD	035	A	1.96	22.59	25.08
CTD	035	A	2.26	22.60	25.17

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	035	A	2.56	22.60	25.09
CTD	035	A	2.86	22.60	25.07
CTD	035	A	3.16	22.60	25.14
CTD	035	A	3.46	22.60	25.28
CTD	035	A	3.76	22.60	25.09
CTD	035	A	4.06	22.59	25.10
CTD	035	A	4.37	22.59	25.20
CTD	035	A	4.67	22.59	25.60
CTD	035	A	4.97	22.59	26.08
CTD	035	A	5.27	22.59	26.16
CTD	035	A	5.57	22.59	26.21
CTD	035	A	5.87	22.59	26.26
CTD	035	A	6.17	22.59	26.28
CTD	035	A	6.47	22.59	26.29
CTD	035	A	6.77	22.58	26.31
CTD	035	A	7.07	22.58	26.28
CTD	035	A	7.37	22.58	26.33
CTD	035	A	7.67	22.58	26.36
CTD	035	A	7.98	22.58	26.36
CTD	035	A	8.28	22.58	26.36
CTD	035	A	8.58	22.57	26.37
CTD	035	A	8.96	22.58	26.36
CTD	036	A	0.15	22.65	24.01
CTD	036	A	0.45	22.64	24.05
CTD	036	A	0.75	22.64	24.12
CTD	036	A	1.05	22.63	24.15
CTD	036	A	1.36	22.63	24.09
CTD	036	A	1.66	22.62	24.09
CTD	036	A	1.96	22.62	24.11
CTD	036	A	2.26	22.62	24.20

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	036	A	2.56	22.62	24.29
CTD	036	A	2.86	22.62	24.32
CTD	036	A	3.16	22.63	24.35
CTD	036	A	3.46	22.63	24.47
CTD	036	A	3.77	22.62	24.69
CTD	036	A	4.07	22.63	25.01
CTD	036	A	4.37	22.63	25.00
CTD	036	A	4.67	22.63	24.89
CTD	036	A	4.97	22.62	24.90
CTD	036	A	5.27	22.61	25.15
CTD	036	A	5.57	22.59	25.81
CTD	036	A	5.87	22.58	26.02
CTD	036	A	6.17	22.58	26.13
CTD	036	A	6.47	22.57	26.21
CTD	036	A	6.78	22.57	26.30
CTD	036	A	7.08	22.57	26.37
CTD	036	A	7.38	22.56	26.40
CTD	036	A	7.68	22.56	26.41
CTD	036	A	7.98	22.56	26.44
CTD	036	A	8.28	22.55	26.49
CTD	036	A	8.58	22.55	26.52
CTD	036	A	8.88	22.56	26.51
CTD	036	A	9.18	22.56	26.52
CTD	036	A	9.48	22.54	26.53
CTD	036	A	9.85	22.54	26.54
CTD	037	A	0.15	22.65	23.93
CTD	037	A	0.45	22.63	23.98
CTD	037	A	0.75	22.63	24.16
CTD	037	A	1.06	22.62	24.46
CTD	037	A	1.36	22.62	24.59

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	037	A	1.66	22.62	24.49
CTD	037	A	1.96	22.62	24.42
CTD	037	A	2.26	22.62	24.40
CTD	037	A	2.56	22.62	24.60
CTD	037	A	2.86	22.62	24.62
CTD	037	A	3.17	22.62	24.65
CTD	037	A	3.47	22.62	24.67
CTD	037	A	3.77	22.61	24.70
CTD	037	A	4.07	22.61	24.75
CTD	037	A	4.37	22.61	24.80
CTD	037	A	4.67	22.60	24.86
CTD	037	A	4.97	22.60	24.90
CTD	037	A	5.27	22.60	24.94
CTD	037	A	5.58	22.60	24.98
CTD	037	A	5.88	22.59	25.02
CTD	037	A	6.18	22.58	25.13
CTD	037	A	6.48	22.57	25.38
CTD	037	A	6.78	22.57	25.68
CTD	037	A	7.08	22.56	26.12
CTD	037	A	7.38	22.57	26.27
CTD	037	A	7.68	22.56	26.44
CTD	037	A	7.99	22.56	26.55
CTD	037	A	8.29	22.56	26.62
CTD	037	A	8.59	22.55	26.69
CTD	037	A	8.89	22.55	26.71
CTD	037	A	9.19	22.55	26.72
CTD	037	A	9.49	22.55	26.74
CTD	037	A	9.79	22.55	26.73
CTD	037	A	10.09	22.51	26.78
CTD	037	A	10.27	22.48	26.82

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	038	A	0.15	22.57	24.45
CTD	038	A	0.45	22.56	24.43
CTD	038	A	0.75	22.58	24.46
CTD	038	A	1.06	22.60	24.45
CTD	038	A	1.36	22.61	24.40
CTD	038	A	1.66	22.62	24.34
CTD	038	A	1.96	22.60	24.38
CTD	038	A	2.26	22.58	24.42
CTD	038	A	2.56	22.58	24.63
CTD	038	A	2.86	22.58	24.64
CTD	038	A	3.17	22.58	24.62
CTD	038	A	3.47	22.58	24.60
CTD	038	A	3.77	22.58	24.76
CTD	038	A	4.07	22.59	24.90
CTD	038	A	4.37	22.59	25.10
CTD	038	A	4.67	22.58	25.26
CTD	038	A	4.97	22.58	25.25
CTD	038	A	5.27	22.58	25.31
CTD	038	A	5.58	22.58	25.40
CTD	038	A	5.88	22.58	25.55
CTD	038	A	6.18	22.57	25.74
CTD	038	A	6.48	22.57	25.98
CTD	038	A	6.78	22.57	26.17
CTD	038	A	7.08	22.56	26.26
CTD	038	A	7.38	22.56	26.51
CTD	038	A	7.68	22.55	26.70
CTD	038	A	7.98	22.55	26.92
CTD	038	A	8.28	22.54	27.22
CTD	038	A	8.59	22.53	27.30
CTD	038	A	8.89	22.53	27.38

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	038	A	9.19	22.51	27.55
CTD	038	A	9.49	22.51	27.68
CTD	038	A	9.79	22.52	27.83
CTD	038	A	10.09	22.51	27.92
CTD	038	A	10.39	22.48	28.06
CTD	038	A	10.75	22.47	28.03
CTD	039	A	0.15	22.52	24.25
CTD	039	A	0.45	22.50	24.30
CTD	039	A	0.75	22.50	24.32
CTD	039	A	1.05	22.50	24.34
CTD	039	A	1.36	22.50	24.38
CTD	039	A	1.66	22.49	24.39
CTD	039	A	1.96	22.49	24.44
CTD	039	A	2.26	22.49	24.53
CTD	039	A	2.56	22.49	24.54
CTD	039	A	2.86	22.50	24.93
CTD	039	A	3.16	22.50	25.41
CTD	039	A	3.46	22.50	26.38
CTD	039	A	3.76	22.50	27.24
CTD	039	A	4.06	22.50	27.39
CTD	039	A	4.37	22.50	27.57
CTD	039	A	4.67	22.50	27.63
CTD	039	A	4.97	22.49	27.67
CTD	039	A	5.27	22.49	27.79
CTD	039	A	5.57	22.49	27.85
CTD	039	A	5.87	22.48	27.98
CTD	039	A	6.17	22.47	28.18
CTD	039	A	6.47	22.47	28.27
CTD	039	A	6.77	22.46	28.32
CTD	039	A	7.07	22.46	28.33

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	039	A	7.37	22.45	28.33
CTD	039	A	7.67	22.45	28.33
CTD	039	A	7.97	22.45	28.33
CTD	039	A	8.27	22.44	28.34
CTD	039	A	8.43	22.42	28.36
CTD	040	A	0.15	22.39	23.99
CTD	040	A	0.45	22.38	24.15
CTD	040	A	0.75	22.37	24.27
CTD	040	A	1.05	22.37	24.55
CTD	040	A	1.36	22.39	24.66
CTD	040	A	1.66	22.40	25.06
CTD	040	A	1.96	22.39	25.49
CTD	040	A	2.26	22.39	25.91
CTD	040	A	2.56	22.39	26.58
CTD	040	A	2.86	22.40	26.55
CTD	040	A	3.16	22.40	27.30
CTD	040	A	3.46	22.39	27.54
CTD	040	A	3.76	22.38	27.78
CTD	040	A	4.06	22.37	28.10
CTD	040	A	4.36	22.37	28.28
CTD	040	A	4.66	22.37	28.61
CTD	040	A	4.96	22.36	28.64
CTD	040	A	5.26	22.35	28.66
CTD	040	A	5.56	22.35	28.67
CTD	040	A	5.86	22.34	28.69
CTD	040	A	6.16	22.34	28.70
CTD	040	A	6.46	22.34	28.70
CTD	040	A	6.76	22.33	28.71
CTD	040	A	7.06	22.33	28.71
CTD	040	A	7.37	22.33	28.71

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	040	A	7.67	22.33	28.71
CTD	040	A	7.97	22.33	28.71
CTD	040	A	8.27	22.32	28.71
CTD	040	A	8.68	22.32	28.70
CTD	041	A	0.15	22.36	25.26
CTD	041	A	0.45	22.32	25.27
CTD	041	A	0.75	22.29	25.35
CTD	041	A	1.05	22.28	25.42
CTD	041	A	1.35	22.31	25.43
CTD	041	A	1.66	22.35	25.46
CTD	041	A	1.96	22.35	25.51
CTD	041	A	2.26	22.35	25.71
CTD	041	A	2.56	22.35	25.92
CTD	041	A	2.86	22.33	26.40
CTD	041	A	3.16	22.32	26.95
CTD	041	A	3.46	22.32	27.38
CTD	041	A	3.76	22.31	27.99
CTD	041	A	4.06	22.29	28.32
CTD	041	A	4.36	22.29	28.48
CTD	041	A	4.66	22.28	28.54
CTD	041	A	4.96	22.26	28.79
CTD	041	A	5.26	22.25	28.97
CTD	041	A	5.56	22.24	28.98
CTD	041	A	5.86	22.24	29.02
CTD	041	A	6.16	22.23	29.06
CTD	041	A	6.46	22.23	29.05
CTD	041	A	6.76	22.22	29.06
CTD	041	A	7.06	22.21	29.10
CTD	041	A	7.36	22.21	29.11
CTD	041	A	7.66	22.21	29.10

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	041	A	7.96	22.20	29.10
CTD	041	A	8.38	22.19	28.97
CTD	042	A	0.15	22.15	28.17
CTD	042	A	0.45	22.16	28.19
CTD	042	A	0.75	22.16	28.29
CTD	042	A	1.05	22.16	28.29
CTD	042	A	1.35	22.16	28.29
CTD	042	A	1.65	22.15	28.29
CTD	042	A	1.95	22.14	28.27
CTD	042	A	2.25	22.14	28.27
CTD	042	A	2.55	22.15	28.29
CTD	042	A	2.85	22.16	28.38
CTD	042	A	3.15	22.17	28.39
CTD	042	A	3.45	22.17	28.40
CTD	042	A	3.75	22.17	28.40
CTD	042	A	4.05	22.17	28.42
CTD	042	A	4.35	22.16	28.45
CTD	042	A	4.65	22.16	28.48
CTD	042	A	4.96	22.15	28.52
CTD	042	A	5.26	22.15	28.55
CTD	042	A	5.56	22.15	28.57
CTD	042	A	5.86	22.15	28.59
CTD	042	A	6.16	22.15	28.65
CTD	042	A	6.46	22.15	28.72
CTD	042	A	6.76	22.15	28.79
CTD	042	A	7.06	22.15	28.89
CTD	042	A	7.36	22.15	28.94
CTD	042	A	7.66	22.15	29.02
CTD	042	A	7.96	22.15	29.02
CTD	042	A	8.26	22.15	29.03
CTD	042	A	8.56	22.15	29.05
CTD	042	A	8.86	22.15	29.05
CTD	042	A	9.16	22.14	29.05
CTD	042	A	9.55	22.12	29.07
CTD	043	A	0.15	22.20	28.47
CTD	043	A	0.45	22.20	28.48
CTD	043	A	0.75	22.21	28.52
CTD	043	A	1.05	22.21	28.54
CTD	043	A	1.35	22.21	28.59
CTD	043	A	1.65	22.20	28.62
CTD	043	A	1.95	22.20	28.63
CTD	043	A	2.25	22.19	28.65
CTD	043	A	2.55	22.18	28.69
CTD	043	A	2.85	22.18	28.72
CTD	043	A	3.15	22.18	28.78
CTD	043	A	3.45	22.18	28.83
CTD	043	A	3.75	22.17	28.88
CTD	043	A	4.05	22.17	28.94
CTD	043	A	4.35	22.17	28.97
CTD	043	A	4.65	22.16	28.99
CTD	043	A	4.95	22.16	29.01
CTD	043	A	5.25	22.16	29.02
CTD	043	A	5.55	22.16	29.05
CTD	043	A	5.85	22.16	29.05
CTD	043	A	6.15	22.16	29.07
CTD	043	A	6.45	22.16	29.09
CTD	043	A	6.75	22.15	29.10
CTD	043	A	7.05	22.15	29.12
CTD	043	A	7.35	22.15	29.12
CTD	043	A	7.66	22.15	29.13
CTD	043	A	7.96	22.15	29.14
CTD	043	A	8.26	22.15	29.14
CTD	043	A	8.56	22.15	29.14
CTD	043	A	8.86	22.15	29.14
CTD	043	A	9.16	22.15	29.14
CTD	043	A	9.46	22.15	29.14
CTD	043	A	9.76	22.15	29.14
CTD	043	A	10.06	22.15	29.14
CTD	043	A	10.36	22.14	29.13
CTD	043	A	10.74	22.15	29.14
CTD	044	A	0.15	22.13	28.21
CTD	044	A	0.45	22.12	28.22
CTD	044	A	0.75	22.12	28.16
CTD	044	A	1.05	22.13	28.17
CTD	044	A	1.35	22.14	28.31
CTD	044	A	1.65	22.14	28.44
CTD	044	A	1.95	22.13	28.37
CTD	044	A	2.25	22.14	28.31
CTD	044	A	2.55	22.14	28.36
CTD	044	A	2.85	22.14	28.44
CTD	044	A	3.15	22.13	28.44
CTD	044	A	3.45	22.14	28.42
CTD	044	A	3.75	22.14	28.43
CTD	044	A	4.05	22.15	28.50
CTD	044	A	4.35	22.15	28.52
CTD	044	A	4.65	22.16	28.60
CTD	044	A	4.96	22.16	28.62
CTD	044	A	5.26	22.16	28.63
CTD	044	A	5.56	22.17	28.64
CTD	044	A	5.86	22.17	28.69

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	044	A	6.16	22.17	28.79
CTD	044	A	6.46	22.18	28.82
CTD	044	A	6.76	22.18	28.99
CTD	044	A	7.06	22.18	29.11
CTD	044	A	7.36	22.18	29.12
CTD	044	A	7.66	22.17	29.13
CTD	044	A	7.96	22.17	29.13
CTD	044	A	8.26	22.17	29.13
CTD	044	A	8.56	22.17	29.13
CTD	044	A	8.86	22.17	29.13
CTD	044	A	9.16	22.17	29.13
CTD	044	A	9.46	22.17	29.13
CTD	044	A	9.76	22.17	29.13
CTD	044	A	10.06	22.16	29.11
CTD	044	A	10.44	22.17	29.12
CTD	045	A	0.15	22.04	29.08
CTD	045	A	0.45	22.03	29.08
CTD	045	A	0.75	22.03	29.07
CTD	045	A	1.05	22.03	29.07
CTD	045	A	1.35	22.05	29.06
CTD	045	A	1.65	22.07	29.04
CTD	045	A	1.95	22.07	29.05
CTD	045	A	2.25	22.07	29.05
CTD	045	A	2.55	22.08	29.05
CTD	045	A	2.85	22.09	29.04
CTD	045	A	3.15	22.09	29.04
CTD	045	A	3.45	22.08	29.04
CTD	045	A	3.75	22.07	29.05
CTD	045	A	4.05	22.06	29.04
CTD	045	A	4.35	22.04	29.05

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	045	A	4.65	22.01	29.06
CTD	045	A	4.95	21.93	29.13
CTD	045	A	5.25	21.85	29.18
CTD	045	A	5.55	21.81	29.22
CTD	045	A	5.85	21.75	29.25
CTD	045	A	6.15	21.74	29.25
CTD	045	A	6.45	21.74	29.26
CTD	045	A	6.75	21.74	29.27
CTD	045	A	7.05	21.74	29.28
CTD	045	A	7.35	21.74	29.28
CTD	045	A	7.65	21.75	29.28
CTD	045	A	7.95	21.76	29.26
CTD	045	A	8.25	21.76	29.26
CTD	045	A	8.55	21.76	29.26
CTD	045	A	8.85	21.75	29.26
CTD	045	A	9.15	21.76	29.26
CTD	045	A	9.45	21.76	29.26
CTD	045	A	9.75	21.73	29.27
CTD	045	A	10.13	21.74	29.27
CTD	046	A	0.15	22.06	28.14
CTD	046	A	0.45	22.04	28.19
CTD	046	A	0.75	22.07	28.29
CTD	046	A	1.05	22.07	28.30
CTD	046	A	1.35	22.06	28.33
CTD	046	A	1.65	22.06	28.33
CTD	046	A	1.95	22.06	28.34
CTD	046	A	2.25	22.06	28.33
CTD	046	A	2.55	22.07	28.35
CTD	046	A	2.86	22.07	28.38
CTD	046	A	3.16	22.08	28.50

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	046	A	3.46	22.09	28.52
CTD	046	A	3.76	22.09	28.56
CTD	046	A	4.06	22.10	28.56
CTD	046	A	4.36	22.10	28.58
CTD	046	A	4.66	22.11	28.59
CTD	046	A	4.96	22.12	28.62
CTD	046	A	5.26	22.12	28.65
CTD	046	A	5.56	22.13	28.80
CTD	046	A	5.86	22.13	28.89
CTD	046	A	6.16	22.11	28.96
CTD	046	A	6.46	22.10	29.01
CTD	046	A	6.76	22.08	29.06
CTD	046	A	7.06	22.04	29.09
CTD	046	A	7.36	21.99	29.11
CTD	046	A	7.66	21.96	29.12
CTD	046	A	7.96	21.95	29.12
CTD	046	A	8.26	21.95	29.13
CTD	046	A	8.56	21.90	29.16
CTD	046	A	8.86	21.86	29.20
CTD	046	A	9.16	21.83	29.24
CTD	046	A	9.46	21.82	29.27
CTD	046	A	9.76	21.85	29.25
CTD	046	A	10.06	21.84	29.25
CTD	046	A	10.36	21.72	29.31
CTD	046	A	10.54	21.70	29.38
CTD	047	A	0.15	22.01	26.31
CTD	047	A	0.45	21.99	26.32
CTD	047	A	0.75	22.00	26.33
CTD	047	A	1.05	22.00	26.36
CTD	047	A	1.35	21.99	26.50

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	047	A	1.66	21.99	26.69
CTD	047	A	1.96	22.00	26.86
CTD	047	A	2.26	22.01	27.17
CTD	047	A	2.56	22.02	27.23
CTD	047	A	2.86	22.03	27.26
CTD	047	A	3.16	22.05	27.37
CTD	047	A	3.46	22.08	27.76
CTD	047	A	3.76	22.09	28.19
CTD	047	A	4.06	22.10	28.32
CTD	047	A	4.36	22.10	28.45
CTD	047	A	4.66	22.10	28.35
CTD	047	A	4.96	22.10	28.22
CTD	047	A	5.26	22.10	28.17
CTD	047	A	5.56	22.10	28.29
CTD	047	A	5.86	22.10	28.42
CTD	047	A	6.16	22.10	28.56
CTD	047	A	6.47	22.10	28.70
CTD	047	A	6.77	22.10	28.83
CTD	047	A	7.07	22.10	28.89
CTD	047	A	7.37	22.09	28.97
CTD	047	A	7.67	22.08	29.05
CTD	047	A	7.97	22.02	29.09
CTD	047	A	8.27	21.96	29.11
CTD	047	A	8.57	21.91	29.16
CTD	047	A	8.87	21.87	29.19
CTD	047	A	9.17	21.83	29.24
CTD	047	A	9.47	21.82	29.28
CTD	047	A	9.77	21.82	29.29
CTD	047	A	10.07	21.82	29.29
CTD	047	A	10.37	21.73	29.33
CTD	047	A	10.75	21.74	29.35
CTD	048	A	0.15	22.07	28.22
CTD	048	A	0.45	22.04	28.22
CTD	048	A	0.75	22.04	28.10
CTD	048	A	1.05	22.03	28.03
CTD	048	A	1.35	22.02	27.87
CTD	048	A	1.65	22.02	27.75
CTD	048	A	1.95	22.01	27.56
CTD	048	A	2.25	22.01	27.50
CTD	048	A	2.56	22.00	27.68
CTD	048	A	2.86	22.00	27.76
CTD	048	A	3.16	21.99	27.81
CTD	048	A	3.46	21.99	27.73
CTD	048	A	3.76	22.00	27.75
CTD	048	A	4.06	22.01	27.70
CTD	048	A	4.36	22.02	27.81
CTD	048	A	4.66	22.03	27.94
CTD	048	A	4.96	22.05	27.91
CTD	048	A	5.26	22.06	28.08
CTD	048	A	5.56	22.07	28.23
CTD	048	A	5.86	22.06	28.45
CTD	048	A	6.16	22.06	28.68
CTD	048	A	6.46	22.06	28.92
CTD	048	A	6.76	22.05	28.98
CTD	048	A	7.06	22.03	29.05
CTD	048	A	7.36	22.00	29.11
CTD	048	A	7.66	21.97	29.13
CTD	048	A	7.96	21.96	29.14
CTD	048	A	8.27	21.94	29.16
CTD	048	A	8.57	21.91	29.18
CTD	048	A	8.87	21.89	29.20
CTD	048	A	9.17	21.83	29.28
CTD	048	A	9.47	21.80	29.33
CTD	048	A	9.77	21.80	29.33
CTD	048	A	10.07	21.79	29.34
CTD	048	A	10.37	21.78	29.35
CTD	048	A	10.67	21.71	29.39
CTD	048	A	10.90	21.71	29.41
CTD	049	A	0.15	21.94	26.68
CTD	049	A	0.45	21.94	26.74
CTD	049	A	0.75	21.95	26.67
CTD	049	A	1.05	21.94	26.78
CTD	049	A	1.35	21.94	27.06
CTD	049	A	1.65	21.95	27.25
CTD	049	A	1.96	21.96	27.32
CTD	049	A	2.26	21.97	27.65
CTD	049	A	2.56	21.97	27.95
CTD	049	A	2.86	21.97	27.99
CTD	049	A	3.16	21.98	27.76
CTD	049	A	3.46	22.01	27.85
CTD	049	A	3.76	22.04	28.25
CTD	049	A	4.06	22.04	28.55
CTD	049	A	4.36	22.04	28.72
CTD	049	A	4.66	22.03	28.84
CTD	049	A	4.96	22.01	28.92
CTD	049	A	5.26	22.00	28.99
CTD	049	A	5.56	22.01	29.05
CTD	049	A	5.86	22.01	29.07
CTD	049	A	6.16	21.99	29.10
CTD	049	A	6.46	21.96	29.12

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	049	A	6.76	21.93	29.14
CTD	049	A	7.06	21.92	29.16
CTD	049	A	7.36	21.89	29.19
CTD	049	A	7.66	21.88	29.21
CTD	049	A	7.96	21.86	29.23
CTD	049	A	8.26	21.83	29.28
CTD	049	A	8.57	21.82	29.29
CTD	049	A	8.87	21.80	29.31
CTD	049	A	9.17	21.77	29.35
CTD	049	A	9.47	21.77	29.36
CTD	049	A	9.77	21.78	29.36
CTD	049	A	10.07	21.76	29.38
CTD	049	A	10.37	21.71	29.40
CTD	049	A	10.65	21.71	29.40
CTD	050	A	0.15	21.93	26.32
CTD	050	A	0.45	21.91	26.39
CTD	050	A	0.75	21.92	26.39
CTD	050	A	1.05	21.92	26.30
CTD	050	A	1.35	21.92	26.25
CTD	050	A	1.66	21.93	26.46
CTD	050	A	1.96	21.95	26.82
CTD	050	A	2.26	21.95	27.23
CTD	050	A	2.56	21.95	26.82
CTD	050	A	2.86	21.96	27.07
CTD	050	A	3.16	21.97	27.16
CTD	050	A	3.46	21.98	27.49
CTD	050	A	3.76	21.99	27.76
CTD	050	A	4.06	22.00	27.98
CTD	050	A	4.36	22.00	28.21
CTD	050	A	4.66	22.01	28.37

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	050	A	4.96	22.02	28.53
CTD	050	A	5.26	22.02	28.71
CTD	050	A	5.56	22.03	28.74
CTD	050	A	5.86	22.02	28.79
CTD	050	A	6.16	21.98	28.90
CTD	050	A	6.47	21.92	29.02
CTD	050	A	6.77	21.91	29.06
CTD	050	A	7.07	21.91	29.10
CTD	050	A	7.37	21.91	29.13
CTD	050	A	7.67	21.88	29.20
CTD	050	A	7.97	21.86	29.24
CTD	050	A	8.27	21.85	29.26
CTD	050	A	8.57	21.83	29.29
CTD	050	A	8.87	21.81	29.31
CTD	050	A	9.17	21.78	29.36
CTD	050	A	9.47	21.78	29.36
CTD	050	A	9.77	21.81	29.35
CTD	050	A	10.07	21.79	29.36
CTD	050	A	10.37	21.71	29.41
CTD	050	A	10.67	21.71	29.42
CTD	051	A	0.15	21.92	26.04
CTD	051	A	0.45	21.89	25.98
CTD	051	A	0.75	21.92	26.06
CTD	051	A	1.05	21.93	26.06
CTD	051	A	1.35	21.93	26.08
CTD	051	A	1.66	21.93	26.11
CTD	051	A	1.96	21.91	26.15
CTD	051	A	2.26	21.90	26.18
CTD	051	A	2.56	21.90	26.19
CTD	051	A	2.86	21.90	26.16

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	051	A	3.16	21.90	26.18
CTD	051	A	3.46	21.90	26.18
CTD	051	A	3.76	21.90	26.18
CTD	051	A	4.06	21.90	26.18
CTD	051	A	4.36	21.90	26.19
CTD	051	A	4.67	21.89	26.19
CTD	051	A	4.97	21.89	26.21
CTD	051	A	5.27	21.89	26.23
CTD	051	A	5.57	21.89	26.23
CTD	051	A	5.87	21.89	26.24
CTD	051	A	6.17	21.88	26.28
CTD	051	A	6.47	21.88	26.35
CTD	051	A	6.77	21.86	26.38
CTD	051	A	7.07	21.85	26.74
CTD	051	A	7.37	21.85	26.87
CTD	051	A	7.67	21.84	27.13
CTD	051	A	7.98	21.84	27.47
CTD	051	A	8.28	21.83	27.77
CTD	051	A	8.58	21.82	27.98
CTD	051	A	8.88	21.81	28.19
CTD	051	A	9.18	21.80	28.49
CTD	051	A	9.48	21.79	28.56
CTD	051	A	9.78	21.78	28.66
CTD	051	A	10.08	21.77	28.85
CTD	051	A	10.38	21.77	28.90
CTD	051	A	10.68	21.76	28.94
CTD	051	A	10.98	21.75	29.08
CTD	051	A	11.28	21.75	29.14
CTD	051	A	11.58	21.74	29.20
CTD	051	A	11.88	21.73	29.26
CTD	051	A	12.18	21.72	29.33

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	051	A	12.48	21.71	29.38
CTD	051	A	12.78	21.69	29.41
CTD	051	A	13.08	21.68	29.44
CTD	051	A	13.38	21.68	29.44
CTD	051	A	13.68	21.69	29.43
CTD	051	A	13.98	21.69	29.43
CTD	051	A	14.28	21.69	29.44
CTD	051	A	14.58	21.69	29.45
CTD	051	A	14.88	21.65	29.47
CTD	051	A	15.12	21.67	29.47
CTD	052	A	0.15	22.06	25.10
CTD	052	A	0.45	22.03	25.10
CTD	052	A	0.75	22.04	25.31
CTD	052	A	1.05	22.03	25.16
CTD	052	A	1.36	22.03	25.15
CTD	052	A	1.66	22.12	25.77
CTD	052	A	1.96	22.13	26.04
CTD	052	A	2.26	22.13	26.15
CTD	052	A	2.56	22.14	26.30
CTD	052	A	2.86	22.14	26.33
CTD	052	A	3.16	22.14	26.33
CTD	052	A	3.46	22.16	26.39
CTD	052	A	3.76	22.17	26.49
CTD	052	A	4.06	22.16	26.54
CTD	052	A	4.37	22.13	26.55
CTD	052	A	4.67	22.13	26.55
CTD	052	A	4.97	22.12	26.55
CTD	052	A	5.27	22.11	26.54
CTD	052	A	5.57	22.10	26.54
CTD	052	A	5.87	22.08	26.62

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	052	A	6.17	22.03	26.86
CTD	052	A	6.47	22.02	27.21
CTD	052	A	6.77	22.04	27.47
CTD	052	A	7.07	22.03	27.71
CTD	052	A	7.37	21.98	28.14
CTD	052	A	7.67	21.94	28.37
CTD	052	A	7.97	21.90	28.56
CTD	052	A	8.28	21.87	28.85
CTD	052	A	8.58	21.85	28.95
CTD	052	A	8.88	21.84	29.05
CTD	052	A	9.18	21.83	29.07
CTD	052	A	9.48	21.82	29.08
CTD	052	A	9.78	21.80	29.14
CTD	052	A	10.08	21.79	29.18
CTD	052	A	10.38	21.78	29.19
CTD	052	A	10.68	21.77	29.21
CTD	052	A	10.98	21.76	29.24
CTD	052	A	11.28	21.76	29.25
CTD	052	A	11.58	21.75	29.26
CTD	052	A	11.88	21.74	29.28
CTD	052	A	12.18	21.73	29.30
CTD	052	A	12.48	21.72	29.31
CTD	052	A	12.78	21.72	29.32
CTD	052	A	13.08	21.73	29.31
CTD	052	A	13.38	21.73	29.31
CTD	052	A	13.68	21.72	29.32
CTD	052	A	13.98	21.69	29.30
CTD	052	A	14.23	21.70	29.34
CTD	053	A	0.15	21.92	24.93
CTD	053	A	0.45	21.91	24.93

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	053	A	0.75	21.92	24.93
CTD	053	A	1.05	21.89	24.86
CTD	053	A	1.36	21.88	24.40
CTD	053	A	1.66	21.87	24.34
CTD	053	A	1.96	21.86	24.53
CTD	053	A	2.26	21.88	24.68
CTD	053	A	2.56	21.89	24.70
CTD	053	A	2.86	21.90	24.74
CTD	053	A	3.16	21.91	24.78
CTD	053	A	3.47	21.92	24.82
CTD	053	A	3.77	21.92	24.87
CTD	053	A	4.07	21.93	24.89
CTD	053	A	4.37	21.93	24.91
CTD	053	A	4.67	21.94	24.91
CTD	053	A	4.97	21.94	24.91
CTD	053	A	5.27	21.95	24.92
CTD	053	A	5.57	21.95	24.94
CTD	053	A	5.88	21.96	24.96
CTD	053	A	6.18	21.97	24.97
CTD	053	A	6.48	21.98	24.97
CTD	053	A	6.78	22.00	25.02
CTD	053	A	7.08	22.03	25.13
CTD	053	A	7.38	22.07	25.40
CTD	053	A	7.68	22.11	25.97
CTD	053	A	7.98	22.14	26.86
CTD	053	A	8.28	22.18	26.95
CTD	053	A	8.59	22.18	26.95
CTD	053	A	8.89	22.19	27.00
CTD	053	A	9.19	22.18	27.04
CTD	053	A	9.49	22.16	27.06
CTD	053	A	9.79	22.14	27.08

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	053	A	10.09	22.11	27.12
CTD	053	A	10.39	22.07	27.18
CTD	053	A	10.69	22.02	27.46
CTD	053	A	10.99	22.00	27.61
CTD	053	A	11.29	21.97	27.75
CTD	053	A	11.59	21.93	28.40
CTD	053	A	11.89	21.91	28.50
CTD	053	A	12.19	21.88	28.57
CTD	053	A	12.49	21.83	28.73
CTD	053	A	12.79	21.84	28.84
CTD	053	A	13.10	21.86	28.84
CTD	053	A	13.40	21.84	28.91
CTD	053	A	13.70	21.83	28.90
CTD	053	A	14.00	21.78	28.99
CTD	053	A	14.28	21.77	28.96
CTD	054	A	0.15	22.06	25.31
CTD	054	A	0.45	22.05	25.32
CTD	054	A	0.75	22.05	25.32
CTD	054	A	1.05	22.05	25.32
CTD	054	A	1.36	22.04	25.31
CTD	054	A	1.66	22.03	25.30
CTD	054	A	1.96	22.02	25.29
CTD	054	A	2.26	22.02	25.29
CTD	054	A	2.56	22.03	25.29
CTD	054	A	2.86	22.04	25.29
CTD	054	A	3.16	22.04	25.29
CTD	054	A	3.46	22.06	25.33
CTD	054	A	3.77	22.06	25.44
CTD	054	A	4.07	22.06	25.45
CTD	054	A	4.37	22.07	25.45

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	054	A	4.67	22.10	25.44
CTD	054	A	4.97	22.16	25.86
CTD	054	A	5.27	22.16	26.21
CTD	054	A	5.57	22.17	26.35
CTD	054	A	5.87	22.18	26.67
CTD	054	A	6.17	22.17	26.74
CTD	054	A	6.47	22.14	26.53
CTD	054	A	6.78	22.13	26.79
CTD	054	A	7.08	22.13	26.93
CTD	054	A	7.38	22.12	26.98
CTD	054	A	7.68	22.11	27.03
CTD	054	A	7.98	22.10	27.06
CTD	054	A	8.28	22.09	27.09
CTD	054	A	8.58	22.08	27.10
CTD	054	A	8.88	22.08	27.10
CTD	054	A	9.18	22.08	27.11
CTD	054	A	9.48	22.07	27.12
CTD	054	A	9.78	22.06	27.14
CTD	054	A	10.08	22.05	27.15
CTD	054	A	10.38	22.05	27.19
CTD	054	A	10.69	22.04	27.22
CTD	054	A	10.99	22.04	27.27
CTD	054	A	11.29	22.04	27.29
CTD	054	A	11.59	22.04	27.34
CTD	054	A	11.89	22.03	27.37
CTD	054	A	12.19	22.03	27.44
CTD	054	A	12.49	22.01	27.50
CTD	054	A	12.79	22.00	27.53
CTD	054	A	13.09	21.99	27.58
CTD	054	A	13.39	21.98	27.60
CTD	054	A	13.69	21.98	27.61

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	054	A	13.99	21.97	27.63
CTD	054	A	14.29	21.96	27.66
CTD	054	A	14.59	21.95	27.76
CTD	054	A	14.90	21.94	27.81
CTD	054	A	15.20	21.92	27.93
CTD	054	A	15.50	21.91	28.00
CTD	054	A	15.80	21.91	27.95
CTD	054	A	16.10	21.93	27.99
CTD	054	A	16.40	21.94	28.03
CTD	054	A	16.70	21.94	28.11
CTD	054	A	17.00	21.93	28.41
CTD	054	A	17.30	21.84	28.72
CTD	054	A	17.59	21.84	28.71
CTD	055	A	0.15	21.88	25.04
CTD	055	A	0.45	21.82	25.03
CTD	055	A	0.75	21.90	25.19
CTD	055	A	1.05	21.93	25.27
CTD	055	A	1.36	21.96	25.25
CTD	055	A	1.66	22.05	25.41
CTD	055	A	1.96	22.10	25.66
CTD	055	A	2.26	22.07	25.62
CTD	055	A	2.56	22.09	25.75
CTD	055	A	2.86	22.11	25.89
CTD	055	A	3.16	22.14	26.43
CTD	055	A	3.46	22.15	26.54
CTD	055	A	3.76	22.15	26.67
CTD	055	A	4.06	22.15	26.88
CTD	055	A	4.37	22.12	27.06
CTD	055	A	4.67	22.11	27.10
CTD	055	A	4.97	22.10	27.13

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	055	A	5.27	22.09	27.22
CTD	055	A	5.57	22.08	27.30
CTD	055	A	5.87	22.08	27.33
CTD	055	A	6.17	22.07	27.40
CTD	055	A	6.47	22.06	27.45
CTD	055	A	6.77	22.05	27.48
CTD	055	A	7.07	22.05	27.51
CTD	055	A	7.37	22.05	27.54
CTD	055	A	7.67	22.05	27.55
CTD	055	A	7.97	22.04	27.56
CTD	055	A	8.28	22.03	27.57
CTD	055	A	8.58	22.02	27.56
CTD	055	A	8.88	22.02	27.57
CTD	055	A	9.18	22.01	27.59
CTD	055	A	9.48	22.01	27.60
CTD	055	A	9.78	22.01	27.62
CTD	055	A	10.08	21.99	27.67
CTD	055	A	10.38	21.99	27.71
CTD	055	A	10.68	21.98	27.71
CTD	055	A	10.98	21.98	27.73
CTD	055	A	11.28	21.96	27.73
CTD	055	A	11.58	21.96	27.74
CTD	055	A	11.88	21.95	27.74
CTD	055	A	12.18	21.95	27.77
CTD	055	A	12.48	21.95	27.80
CTD	055	A	12.79	21.94	27.80
CTD	055	A	13.09	21.94	27.80
CTD	055	A	13.39	21.94	27.83
CTD	055	A	13.69	21.93	27.83
CTD	055	A	13.99	21.93	27.83
CTD	055	A	14.29	21.93	27.84
CTD	055	A	14.59	21.93	27.85
CTD	055	A	14.89	21.92	27.85
CTD	055	A	15.19	21.92	27.86
CTD	055	A	15.49	21.92	27.86
CTD	055	A	15.79	21.92	27.84
CTD	055	A	16.09	21.93	27.83
CTD	055	A	16.39	21.93	27.82
CTD	055	A	16.69	21.93	27.83
CTD	055	A	16.99	21.93	27.80
CTD	055	A	17.29	21.93	27.74
CTD	055	A	17.60	21.93	27.70
CTD	055	A	17.90	21.93	27.70
CTD	055	A	18.17	21.94	27.68
CTD	056	A	0.15	22.01	26.86
CTD	056	A	0.45	21.98	26.98
CTD	056	A	0.75	21.95	27.10
CTD	056	A	1.05	21.95	27.14
CTD	056	A	1.35	21.96	27.17
CTD	056	A	1.65	22.02	27.41
CTD	056	A	1.95	22.07	26.92
CTD	056	A	2.25	22.10	26.90
CTD	056	A	2.55	22.06	27.38
CTD	056	A	2.86	22.00	27.67
CTD	056	A	3.16	21.97	27.83
CTD	056	A	3.46	21.95	28.04
CTD	056	A	3.76	21.92	28.29
CTD	056	A	4.06	21.90	28.51
CTD	056	A	4.36	21.88	28.85
CTD	056	A	4.66	21.86	28.95
CTD	056	A	4.96	21.83	29.01
CTD	056	A	5.26	21.81	29.07
CTD	056	A	5.56	21.78	29.14
CTD	056	A	5.86	21.75	29.19
CTD	056	A	6.16	21.70	29.31
CTD	056	A	6.46	21.68	29.39
CTD	056	A	6.76	21.68	29.41
CTD	056	A	7.06	21.68	29.42
CTD	056	A	7.36	21.67	29.44
CTD	056	A	7.66	21.67	29.50
CTD	056	A	7.96	21.65	29.52
CTD	056	A	8.26	21.64	29.56
CTD	056	A	8.56	21.62	29.60
CTD	056	A	8.86	21.58	29.64
CTD	056	A	9.16	21.55	29.67
CTD	056	A	9.46	21.51	29.69
CTD	056	A	9.76	21.49	29.73
CTD	056	A	10.06	21.47	29.76
CTD	056	A	10.36	21.46	29.77
CTD	056	A	10.66	21.45	29.78
CTD	056	A	10.96	21.44	29.79
CTD	056	A	11.26	21.43	29.82
CTD	056	A	11.56	21.41	29.84
CTD	056	A	11.86	21.40	29.85
CTD	056	A	12.16	21.39	29.86
CTD	056	A	12.46	21.38	29.87
CTD	056	A	12.76	21.38	29.87
CTD	056	A	13.06	21.37	29.87
CTD	056	A	13.36	21.37	29.88
CTD	056	A	13.66	21.36	29.89
CTD	056	A	13.96	21.36	29.90
CTD	056	A	14.26	21.35	29.91

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	056	A	14.56	21.34	29.92
CTD	056	A	14.86	21.34	29.92
CTD	056	A	15.16	21.34	29.93
CTD	056	A	15.46	21.33	29.93
CTD	056	A	15.76	21.33	29.94
CTD	056	A	16.06	21.32	29.95
CTD	056	A	16.36	21.32	29.95
CTD	056	A	16.66	21.31	29.97
CTD	056	A	16.96	21.30	29.96
CTD	056	A	17.25	21.31	29.96
CTD	056	A	17.55	21.31	29.97
CTD	056	A	17.85	21.30	29.97
CTD	056	A	18.15	21.30	29.99
CTD	056	A	18.45	21.29	30.03
CTD	056	A	18.75	21.26	30.06
CTD	056	A	19.13	21.26	30.06
CTD	057	A	0.15	22.39	26.48
CTD	057	A	0.45	22.33	26.51
CTD	057	A	0.75	22.30	26.62
CTD	057	A	1.05	22.25	26.64
CTD	057	A	1.35	22.21	26.78
CTD	057	A	1.65	22.17	26.95
CTD	057	A	1.95	22.13	27.13
CTD	057	A	2.26	22.00	27.29
CTD	057	A	2.56	21.93	27.50
CTD	057	A	2.86	21.87	27.64
CTD	057	A	3.16	21.81	27.95
CTD	057	A	3.46	21.75	28.09
CTD	057	A	3.76	21.68	28.56
CTD	057	A	4.06	21.64	28.68

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	057	A	4.36	21.59	28.57
CTD	057	A	4.66	21.57	28.55
CTD	057	A	4.96	21.58	28.56
CTD	057	A	5.26	21.59	28.54
CTD	057	A	5.56	21.60	28.79
CTD	057	A	5.86	21.61	29.04
CTD	057	A	6.16	21.57	29.37
CTD	057	A	6.46	21.53	29.45
CTD	057	A	6.76	21.48	29.53
CTD	057	A	7.06	21.41	29.61
CTD	057	A	7.36	21.38	29.65
CTD	057	A	7.66	21.36	29.70
CTD	057	A	7.96	21.34	29.74
CTD	057	A	8.26	21.32	29.78
CTD	057	A	8.56	21.30	29.81
CTD	057	A	8.86	21.29	29.84
CTD	057	A	9.16	21.28	29.85
CTD	057	A	9.46	21.27	29.88
CTD	057	A	9.76	21.27	29.89
CTD	057	A	10.06	21.27	29.91
CTD	057	A	10.36	21.26	29.92
CTD	057	A	10.66	21.26	29.93
CTD	057	A	10.96	21.26	29.93
CTD	057	A	11.26	21.26	29.94
CTD	057	A	11.56	21.25	29.99
CTD	057	A	11.86	21.25	30.01
CTD	057	A	12.16	21.25	30.02
CTD	057	A	12.46	21.25	30.05
CTD	057	A	12.76	21.25	30.08
CTD	057	A	13.06	21.25	30.10
CTD	057	A	13.36	21.24	30.11

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	057	A	13.66	21.24	30.12
CTD	057	A	13.96	21.24	30.12
CTD	057	A	14.26	21.24	30.12
CTD	057	A	14.56	21.24	30.12
CTD	057	A	14.86	21.24	30.12
CTD	057	A	15.15	21.24	30.13
CTD	057	A	15.45	21.24	30.13
CTD	057	A	15.75	21.24	30.13
CTD	057	A	16.05	21.24	30.13
CTD	057	A	16.35	21.24	30.13
CTD	057	A	16.65	21.24	30.13
CTD	057	A	16.95	21.24	30.14
CTD	057	A	17.25	21.24	30.14
CTD	057	A	17.55	21.24	30.13
CTD	057	A	17.85	21.24	30.14
CTD	057	A	18.15	21.24	30.14
CTD	057	A	18.45	21.24	30.14
CTD	057	A	18.75	21.24	30.13
CTD	057	A	19.05	21.24	30.14
CTD	057	A	19.35	21.24	30.14
CTD	057	A	19.65	21.24	30.14
CTD	057	A	19.97	21.25	30.14
CTD	058	A	0.15	21.49	29.49
CTD	058	A	0.45	21.47	29.56
CTD	058	A	0.75	21.42	29.69
CTD	058	A	1.05	21.41	29.64
CTD	058	A	1.35	21.44	29.48
CTD	058	A	1.65	21.52	29.27
CTD	058	A	1.95	21.61	29.01
CTD	058	A	2.25	21.66	28.89

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	058	A	2.55	21.66	28.92
CTD	058	A	2.85	21.63	29.07
CTD	058	A	3.15	21.61	29.16
CTD	058	A	3.45	21.58	29.25
CTD	058	A	3.75	21.53	29.42
CTD	058	A	4.05	21.50	29.45
CTD	058	A	4.35	21.48	29.50
CTD	058	A	4.65	21.44	29.59
CTD	058	A	4.95	21.43	29.65
CTD	058	A	5.25	21.43	29.71
CTD	058	A	5.55	21.41	29.76
CTD	058	A	5.85	21.39	29.79
CTD	058	A	6.15	21.38	29.81
CTD	058	A	6.46	21.35	29.85
CTD	058	A	6.76	21.33	29.87
CTD	058	A	7.06	21.32	29.89
CTD	058	A	7.36	21.31	29.90
CTD	058	A	7.66	21.30	29.92
CTD	058	A	7.96	21.29	29.93
CTD	058	A	8.26	21.28	29.95
CTD	058	A	8.56	21.28	29.95
CTD	058	A	8.86	21.27	29.96
CTD	058	A	9.16	21.26	29.98
CTD	058	A	9.46	21.25	30.00
CTD	058	A	9.76	21.25	30.02
CTD	058	A	10.06	21.24	30.05
CTD	058	A	10.36	21.24	30.06
CTD	058	A	10.66	21.24	30.07
CTD	058	A	10.96	21.24	30.07
CTD	058	A	11.26	21.24	30.08
CTD	058	A	11.56	21.24	30.09
CTD	058	A	11.86	21.24	30.10
CTD	058	A	12.16	21.23	30.11
CTD	058	A	12.46	21.23	30.12
CTD	058	A	12.76	21.23	30.11
CTD	058	A	13.06	21.24	30.11
CTD	058	A	13.36	21.23	30.12
CTD	058	A	13.66	21.23	30.14
CTD	058	A	13.92	21.23	30.14
CTD	059	A	0.15	21.80	27.85
CTD	059	A	0.45	21.79	27.83
CTD	059	A	0.75	21.78	27.84
CTD	059	A	1.05	21.76	27.81
CTD	059	A	1.35	21.75	27.58
CTD	059	A	1.65	21.75	27.89
CTD	059	A	1.95	21.73	27.74
CTD	059	A	2.25	21.70	28.10
CTD	059	A	2.56	21.70	28.20
CTD	059	A	2.86	21.68	28.28
CTD	059	A	3.16	21.65	28.26
CTD	059	A	3.46	21.64	28.38
CTD	059	A	3.76	21.63	28.42
CTD	059	A	4.06	21.63	28.56
CTD	059	A	4.36	21.63	28.65
CTD	059	A	4.66	21.62	28.73
CTD	059	A	4.96	21.59	28.91
CTD	059	A	5.26	21.55	28.97
CTD	059	A	5.56	21.51	29.14
CTD	059	A	5.86	21.48	29.28
CTD	059	A	6.16	21.47	29.31
CTD	059	A	6.46	21.46	29.32
CTD	059	A	6.76	21.46	29.35
CTD	059	A	7.06	21.46	29.40
CTD	059	A	7.36	21.46	29.48
CTD	059	A	7.66	21.48	29.53
CTD	059	A	7.96	21.48	29.57
CTD	059	A	8.26	21.46	29.57
CTD	059	A	8.56	21.45	29.55
CTD	059	A	8.86	21.42	29.58
CTD	059	A	9.16	21.40	29.61
CTD	059	A	9.46	21.37	29.67
CTD	059	A	9.76	21.34	29.79
CTD	059	A	10.06	21.33	29.88
CTD	059	A	10.36	21.31	29.91
CTD	059	A	10.66	21.28	29.97
CTD	059	A	10.96	21.28	29.98
CTD	059	A	11.26	21.30	29.97
CTD	059	A	11.56	21.28	29.99
CTD	059	A	11.86	21.27	30.00
CTD	059	A	12.16	21.24	30.04
CTD	059	A	12.40	21.22	30.06
CTD	060	A	0.15	21.65	28.38
CTD	060	A	0.45	21.64	28.33
CTD	060	A	0.75	21.64	28.36
CTD	060	A	1.05	21.64	28.32
CTD	060	A	1.35	21.62	28.39
CTD	060	A	1.65	21.62	28.51
CTD	060	A	1.95	21.60	28.55
CTD	060	A	2.25	21.58	28.69
CTD	060	A	2.55	21.57	28.76
CTD	060	A	2.85	21.55	28.86

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	060	A	3.15	21.51	28.98
CTD	060	A	3.46	21.48	29.04
CTD	060	A	3.76	21.45	29.11
CTD	060	A	4.06	21.42	29.18
CTD	060	A	4.36	21.40	29.25
CTD	060	A	4.66	21.39	29.30
CTD	060	A	4.96	21.37	29.39
CTD	060	A	5.26	21.36	29.50
CTD	060	A	5.56	21.36	29.57
CTD	060	A	5.86	21.35	29.61
CTD	060	A	6.16	21.34	29.77
CTD	060	A	6.46	21.32	29.84
CTD	060	A	6.76	21.30	29.91
CTD	060	A	7.06	21.30	29.94
CTD	060	A	7.36	21.28	29.97
CTD	060	A	7.66	21.27	29.97
CTD	060	A	7.96	21.26	29.98
CTD	060	A	8.26	21.24	30.00
CTD	060	A	8.56	21.23	30.03
CTD	060	A	8.86	21.23	30.04
CTD	060	A	9.16	21.23	30.04
CTD	060	A	9.46	21.22	30.05
CTD	060	A	9.76	21.21	30.07
CTD	060	A	10.06	21.20	30.08
CTD	060	A	10.36	21.20	30.07
CTD	060	A	10.66	21.20	30.08
CTD	060	A	10.96	21.20	30.08
CTD	060	A	11.26	21.19	30.09
CTD	060	A	11.56	21.19	30.09
CTD	060	A	11.86	21.19	30.10
CTD	060	A	12.16	21.18	30.11
CTD	060	A	12.46	21.18	30.11
CTD	060	A	12.76	21.18	30.11
CTD	060	A	13.06	21.17	30.13
CTD	060	A	13.36	21.17	30.14
CTD	060	A	13.66	21.16	30.15
CTD	060	A	13.96	21.16	30.17
CTD	060	A	14.26	21.15	30.17
CTD	060	A	14.56	21.15	30.17
CTD	060	A	14.86	21.15	30.18
CTD	060	A	15.16	21.15	30.18
CTD	060	A	15.46	21.15	30.18
CTD	060	A	15.76	21.15	30.18
CTD	060	A	16.06	21.15	30.18
CTD	060	A	16.36	21.15	30.18
CTD	060	A	16.66	21.15	30.18
CTD	060	A	16.96	21.15	30.18
CTD	060	A	17.26	21.15	30.18
CTD	060	A	17.56	21.14	30.19
CTD	060	A	17.74	21.15	30.20
CTD	061	A	0.15	21.98	25.45
CTD	061	A	0.45	21.97	25.46
CTD	061	A	0.75	21.98	25.48
CTD	061	A	1.05	21.97	25.51
CTD	061	A	1.36	21.98	25.55
CTD	061	A	1.66	21.98	25.64
CTD	061	A	1.96	21.98	25.92
CTD	061	A	2.26	21.98	26.08
CTD	061	A	2.56	21.98	26.23
CTD	061	A	2.86	21.98	26.24
CTD	061	A	3.16	21.99	26.24
CTD	061	A	3.46	21.99	26.26
CTD	061	A	3.76	21.99	26.28
CTD	061	A	4.06	21.99	26.29
CTD	061	A	4.37	21.99	26.31
CTD	061	A	4.67	21.99	26.34
CTD	061	A	4.97	21.99	26.34
CTD	061	A	5.27	21.99	26.34
CTD	061	A	5.57	21.99	26.35
CTD	061	A	5.87	21.99	26.35
CTD	061	A	6.17	21.99	26.36
CTD	061	A	6.47	21.99	26.45
CTD	061	A	6.77	21.99	26.47
CTD	061	A	7.07	22.00	26.52
CTD	061	A	7.37	22.00	26.60
CTD	061	A	7.68	21.99	26.75
CTD	061	A	7.98	21.99	26.90
CTD	061	A	8.28	22.00	26.79
CTD	061	A	8.58	22.00	26.77
CTD	061	A	8.88	21.99	26.83
CTD	061	A	9.18	21.98	26.95
CTD	061	A	9.48	21.98	26.99
CTD	061	A	9.78	21.97	27.07
CTD	061	A	10.08	21.97	27.13
CTD	061	A	10.38	21.97	27.21
CTD	061	A	10.68	21.97	27.24
CTD	061	A	10.98	21.97	27.25
CTD	061	A	11.29	21.96	27.28
CTD	061	A	11.59	21.96	27.28
CTD	061	A	11.89	21.95	27.30
CTD	061	A	12.19	21.95	27.35
CTD	061	A	12.49	21.95	27.39

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	061	A	12.79	21.94	27.42
CTD	061	A	13.09	21.94	27.47
CTD	061	A	13.39	21.94	27.53
CTD	061	A	13.69	21.94	27.55
CTD	061	A	13.99	21.94	27.55
CTD	061	A	14.29	21.94	27.56
CTD	061	A	14.59	21.94	27.57
CTD	061	A	14.89	21.94	27.57
CTD	061	A	15.19	21.94	27.58
CTD	061	A	15.50	21.93	27.59
CTD	061	A	15.80	21.93	27.59
CTD	061	A	16.10	21.94	27.61
CTD	061	A	16.40	21.94	27.61
CTD	061	A	16.70	21.93	27.61
CTD	061	A	17.00	21.93	27.62
CTD	061	A	17.30	21.94	27.62
CTD	061	A	17.60	21.94	27.61
CTD	061	A	17.90	21.94	27.62
CTD	061	A	18.20	21.94	27.62
CTD	061	A	18.50	21.94	27.61
CTD	061	A	18.80	21.95	27.61
CTD	061	A	19.10	21.95	27.62
CTD	061	A	19.40	21.92	27.61
CTD	061	A	19.69	21.92	27.62
CTD	062	A	0.15	22.12	25.50
CTD	062	A	0.45	22.09	25.48
CTD	062	A	0.75	22.11	25.48
CTD	062	A	1.05	22.12	25.51
CTD	062	A	1.36	22.12	25.54
CTD	062	A	1.66	22.12	25.55

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	062	A	1.96	22.12	25.57
CTD	062	A	2.26	22.12	25.60
CTD	062	A	2.56	22.13	25.61
CTD	062	A	2.86	22.13	25.68
CTD	062	A	3.16	22.13	25.71
CTD	062	A	3.46	22.14	25.72
CTD	062	A	3.76	22.13	25.73
CTD	062	A	4.07	22.13	25.75
CTD	062	A	4.37	22.12	25.77
CTD	062	A	4.67	22.10	25.83
CTD	062	A	4.97	22.09	25.89
CTD	062	A	5.27	22.08	26.01
CTD	062	A	5.57	22.08	26.10
CTD	062	A	5.87	22.07	26.20
CTD	062	A	6.17	22.07	26.33
CTD	062	A	6.47	22.07	26.45
CTD	062	A	6.77	22.07	26.55
CTD	062	A	7.08	22.07	26.63
CTD	062	A	7.38	22.07	26.69
CTD	062	A	7.68	22.07	26.71
CTD	062	A	7.98	22.07	26.73
CTD	062	A	8.28	22.07	26.76
CTD	062	A	8.58	22.07	26.82
CTD	062	A	8.88	22.06	26.91
CTD	062	A	9.18	22.03	27.31
CTD	062	A	9.48	22.02	27.44
CTD	062	A	9.78	22.02	27.50
CTD	062	A	10.08	22.01	27.54
CTD	062	A	10.38	22.01	27.55
CTD	062	A	10.69	22.00	27.59
CTD	062	A	10.99	22.00	27.59

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	062	A	11.29	21.99	27.60
CTD	062	A	11.59	21.99	27.62
CTD	062	A	11.89	21.99	27.62
CTD	062	A	12.19	21.99	27.62
CTD	062	A	12.49	21.99	27.62
CTD	062	A	12.79	21.99	27.63
CTD	062	A	13.09	21.99	27.63
CTD	062	A	13.39	21.98	27.64
CTD	062	A	13.69	21.98	27.65
CTD	062	A	13.99	21.98	27.66
CTD	062	A	14.29	21.98	27.66
CTD	062	A	14.59	21.98	27.67
CTD	062	A	14.89	21.98	27.68
CTD	062	A	15.20	21.98	27.68
CTD	062	A	15.50	21.97	27.68
CTD	062	A	15.80	21.98	27.68
CTD	062	A	16.10	21.98	27.68
CTD	062	A	16.40	21.98	27.69
CTD	062	A	16.70	21.98	27.68
CTD	062	A	17.00	21.98	27.68
CTD	062	A	17.30	21.98	27.68
CTD	062	A	17.60	21.98	27.69
CTD	062	A	17.90	21.97	27.68
CTD	062	A	18.32	21.97	27.68
CTD	063	A	0.15	22.15	26.00
CTD	063	A	0.45	22.13	25.97
CTD	063	A	0.75	22.12	25.95
CTD	063	A	1.05	22.12	25.98
CTD	063	A	1.35	22.14	25.99
CTD	063	A	1.66	22.02	25.84

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	063	A	1.96	22.02	26.00
CTD	063	A	2.26	22.01	26.13
CTD	063	A	2.56	22.03	26.27
CTD	063	A	2.86	22.06	26.25
CTD	063	A	3.16	22.07	26.28
CTD	063	A	3.46	22.08	26.33
CTD	063	A	3.76	22.09	26.39
CTD	063	A	4.06	22.09	26.41
CTD	063	A	4.36	22.09	26.44
CTD	063	A	4.67	22.09	26.49
CTD	063	A	4.97	22.09	26.51
CTD	063	A	5.27	22.09	26.58
CTD	063	A	5.57	22.08	26.65
CTD	063	A	5.87	22.08	26.73
CTD	063	A	6.17	22.08	26.75
CTD	063	A	6.47	22.08	26.79
CTD	063	A	6.77	22.08	26.80
CTD	063	A	7.07	22.08	26.81
CTD	063	A	7.37	22.08	26.82
CTD	063	A	7.67	22.08	26.82
CTD	063	A	7.98	22.08	26.84
CTD	063	A	8.28	22.08	26.86
CTD	063	A	8.58	22.08	26.89
CTD	063	A	8.88	22.08	26.89
CTD	063	A	9.18	22.08	26.91
CTD	063	A	9.48	22.08	26.92
CTD	063	A	9.78	22.08	26.95
CTD	063	A	10.08	22.08	26.98
CTD	063	A	10.38	22.08	27.02
CTD	063	A	10.68	22.07	27.07
CTD	063	A	10.98	22.07	27.12
CTD	063	A	11.28	22.07	27.14
CTD	063	A	11.59	22.06	27.23
CTD	063	A	11.89	22.05	27.26
CTD	063	A	12.19	22.05	27.29
CTD	063	A	12.49	22.04	27.33
CTD	063	A	12.79	22.03	27.37
CTD	063	A	13.09	22.03	27.41
CTD	063	A	13.39	22.02	27.44
CTD	063	A	13.69	22.02	27.45
CTD	063	A	13.99	22.02	27.46
CTD	063	A	14.29	22.01	27.49
CTD	063	A	14.59	22.01	27.51
CTD	063	A	14.89	22.00	27.52
CTD	063	A	15.19	22.00	27.53
CTD	063	A	15.49	22.00	27.53
CTD	063	A	15.80	22.00	27.54
CTD	063	A	16.10	22.00	27.54
CTD	063	A	16.40	22.00	27.54
CTD	063	A	16.70	22.00	27.55
CTD	063	A	17.00	22.00	27.56
CTD	063	A	17.30	22.00	27.55
CTD	063	A	17.60	22.00	27.56
CTD	063	A	17.90	22.00	27.57
CTD	063	A	18.20	22.00	27.57
CTD	063	A	18.50	22.00	27.57
CTD	063	A	18.80	21.99	27.57
CTD	063	A	19.07	21.99	27.57
CTD	064	A	0.15	22.18	25.92
CTD	064	A	0.45	22.17	25.93
CTD	064	A	0.75	22.17	25.93
CTD	064	A	1.05	22.17	25.93
CTD	064	A	1.35	22.18	25.93
CTD	064	A	1.65	22.19	25.95
CTD	064	A	1.96	22.20	25.94
CTD	064	A	2.26	22.20	25.99
CTD	064	A	2.56	22.20	26.01
CTD	064	A	2.86	22.21	26.02
CTD	064	A	3.16	22.21	26.03
CTD	064	A	3.46	22.21	26.05
CTD	064	A	3.76	22.20	26.20
CTD	064	A	4.06	22.21	26.40
CTD	064	A	4.36	22.20	26.44
CTD	064	A	4.66	22.20	26.50
CTD	064	A	4.96	22.20	26.53
CTD	064	A	5.26	22.20	26.57
CTD	064	A	5.56	22.21	26.58
CTD	064	A	5.87	22.21	26.55
CTD	064	A	6.17	22.21	26.61
CTD	064	A	6.47	22.20	26.61
CTD	064	A	6.77	22.20	26.62
CTD	064	A	7.07	22.19	26.70
CTD	064	A	7.37	22.17	26.79
CTD	064	A	7.67	22.16	26.93
CTD	064	A	7.97	22.15	27.04
CTD	064	A	8.27	22.13	27.08
CTD	064	A	8.57	22.12	27.12
CTD	064	A	8.87	22.11	27.15
CTD	064	A	9.17	22.11	27.16
CTD	064	A	9.47	22.11	27.18
CTD	064	A	9.77	22.11	27.20
CTD	064	A	10.07	22.10	27.21

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	064	A	10.37	22.10	27.23
CTD	064	A	10.68	22.10	27.25
CTD	064	A	10.98	22.09	27.26
CTD	064	A	11.28	22.09	27.28
CTD	064	A	11.58	22.09	27.29
CTD	064	A	11.88	22.09	27.30
CTD	064	A	12.18	22.08	27.31
CTD	064	A	12.48	22.08	27.32
CTD	064	A	12.78	22.08	27.32
CTD	064	A	13.08	22.08	27.33
CTD	064	A	13.38	22.07	27.33
CTD	064	A	13.68	22.05	27.36
CTD	064	A	13.98	22.04	27.44
CTD	064	A	14.28	22.03	27.50
CTD	064	A	14.58	22.03	27.53
CTD	064	A	14.88	22.02	27.55
CTD	064	A	15.18	22.01	27.59
CTD	064	A	15.48	22.01	27.61
CTD	064	A	15.78	22.01	27.60
CTD	064	A	16.08	22.02	27.57
CTD	064	A	16.38	22.02	27.61
CTD	064	A	16.69	22.02	27.64
CTD	064	A	16.99	22.01	27.67
CTD	064	A	17.29	22.00	27.69
CTD	064	A	17.59	21.97	27.71
CTD	064	A	17.81	21.98	27.70
CTD	065	A	0.15	22.17	25.99
CTD	065	A	0.45	22.17	26.01
CTD	065	A	0.75	22.17	26.00
CTD	065	A	1.05	22.18	26.00

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	065	A	1.35	22.18	26.00
CTD	065	A	1.65	22.19	26.00
CTD	065	A	1.96	22.20	26.01
CTD	065	A	2.26	22.21	26.07
CTD	065	A	2.56	22.20	26.14
CTD	065	A	2.86	22.20	26.21
CTD	065	A	3.16	22.20	26.24
CTD	065	A	3.46	22.20	26.28
CTD	065	A	3.76	22.19	26.39
CTD	065	A	4.06	22.19	26.53
CTD	065	A	4.36	22.18	26.58
CTD	065	A	4.66	22.18	26.61
CTD	065	A	4.96	22.18	26.69
CTD	065	A	5.26	22.17	26.76
CTD	065	A	5.56	22.15	26.82
CTD	065	A	5.86	22.14	26.89
CTD	065	A	6.17	22.13	26.96
CTD	065	A	6.47	22.11	26.99
CTD	065	A	6.77	22.10	27.01
CTD	065	A	7.07	22.10	27.03
CTD	065	A	7.37	22.09	27.07
CTD	065	A	7.67	22.08	27.10
CTD	065	A	7.97	22.07	27.15
CTD	065	A	8.27	22.06	27.17
CTD	065	A	8.57	22.05	27.19
CTD	065	A	8.87	22.04	27.21
CTD	065	A	9.17	22.03	27.23
CTD	065	A	9.47	22.01	27.26
CTD	065	A	9.77	22.00	27.32
CTD	065	A	10.07	21.99	27.40
CTD	065	A	10.37	21.98	27.46

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	065	A	10.67	21.97	27.53
CTD	065	A	10.97	21.97	27.59
CTD	065	A	11.27	21.98	27.58
CTD	065	A	11.58	21.98	27.59
CTD	065	A	11.88	21.90	27.69
CTD	065	A	12.20	21.91	27.70
CTD	066	A	0.15	21.87	27.54
CTD	066	A	0.45	21.87	27.54
CTD	066	A	0.75	21.87	27.55
CTD	066	A	1.05	21.87	27.55
CTD	066	A	1.35	21.87	27.55
CTD	066	A	1.65	21.87	27.55
CTD	066	A	1.95	21.87	27.55
CTD	066	A	2.25	21.88	27.57
CTD	066	A	2.55	21.88	27.59
CTD	066	A	2.85	21.90	27.72
CTD	066	A	3.15	21.89	27.79
CTD	066	A	3.46	21.89	27.79
CTD	066	A	3.76	21.89	27.90
CTD	066	A	4.06	21.89	27.90
CTD	066	A	4.36	21.89	27.92
CTD	066	A	4.66	21.90	27.92
CTD	066	A	4.96	21.90	27.94
CTD	066	A	5.26	21.90	27.95
CTD	066	A	5.56	21.90	27.96
CTD	066	A	5.86	21.91	27.98
CTD	066	A	6.16	21.90	28.01
CTD	066	A	6.46	21.90	28.11
CTD	066	A	6.76	21.90	28.08
CTD	066	A	7.06	21.90	28.12

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	066	A	7.36	21.90	28.15
CTD	066	A	7.66	21.88	28.15
CTD	066	A	7.96	21.88	28.15
CTD	066	A	8.24	21.86	28.16
CTD	067	A	0.15	21.88	27.43
CTD	067	A	0.45	21.87	27.42
CTD	067	A	0.75	21.89	27.45
CTD	067	A	1.05	21.89	27.44
CTD	067	A	1.35	21.89	27.43
CTD	067	A	1.65	21.89	27.46
CTD	067	A	1.95	21.88	27.46
CTD	067	A	2.25	21.89	27.47
CTD	067	A	2.55	21.89	27.50
CTD	067	A	2.85	21.90	27.54
CTD	067	A	3.16	21.92	27.60
CTD	067	A	3.46	21.92	27.80
CTD	067	A	3.76	21.92	27.91
CTD	067	A	4.06	21.92	27.94
CTD	067	A	4.36	21.91	28.05
CTD	067	A	4.66	21.91	28.10
CTD	067	A	4.96	21.90	28.11
CTD	067	A	5.26	21.90	28.12
CTD	067	A	5.56	21.89	28.06
CTD	067	A	5.86	21.89	28.11
CTD	067	A	6.16	21.85	27.96
CTD	067	A	6.37	21.86	28.03
CTD	068	A	0.15	21.90	28.06
CTD	068	A	0.45	21.89	28.07
CTD	068	A	0.75	21.90	28.07
CTD	068	A	1.05	21.89	28.08

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	068	A	1.35	21.89	28.13
CTD	068	A	1.65	21.89	28.12
CTD	068	A	1.95	21.89	28.10
CTD	068	A	2.25	21.89	28.08
CTD	068	A	2.55	21.89	28.09
CTD	068	A	2.85	21.89	28.09
CTD	068	A	3.15	21.89	28.13
CTD	068	A	3.45	21.89	28.16
CTD	068	A	3.75	21.89	28.16
CTD	068	A	4.05	21.90	28.19
CTD	068	A	4.35	21.90	28.22
CTD	068	A	4.66	21.90	28.23
CTD	068	A	4.96	21.90	28.23
CTD	068	A	5.26	21.90	28.23
CTD	068	A	5.56	21.89	28.21
CTD	068	A	5.86	21.87	28.14
CTD	068	A	6.03	21.84	27.93
CTD	069	A	0.15	21.88	28.05
CTD	069	A	0.45	21.88	28.06
CTD	069	A	0.75	21.87	28.08
CTD	069	A	1.05	21.87	28.09
CTD	069	A	1.35	21.87	28.10
CTD	069	A	1.65	21.87	28.09
CTD	069	A	1.95	21.86	28.09
CTD	069	A	2.25	21.86	28.09
CTD	069	A	2.55	21.86	28.09
CTD	069	A	2.85	21.86	28.07
CTD	069	A	3.15	21.86	28.08
CTD	069	A	3.45	21.87	28.08
CTD	069	A	3.75	21.87	28.08

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	069	A	4.05	21.87	28.09
CTD	069	A	4.36	21.87	28.09
CTD	069	A	4.66	21.87	28.09
CTD	069	A	4.96	21.87	28.09
CTD	069	A	5.26	21.86	28.10
CTD	069	A	5.56	21.86	28.09
CTD	069	A	5.86	21.86	28.08
CTD	069	A	6.07	21.87	28.08
CTD	070	A	0.15	21.85	28.02
CTD	070	A	0.45	21.83	28.03
CTD	070	A	0.75	21.85	28.04
CTD	070	A	1.05	21.85	28.02
CTD	070	A	1.35	21.84	28.03
CTD	070	A	1.65	21.84	28.00
CTD	070	A	1.95	21.83	27.98
CTD	070	A	2.25	21.83	28.00
CTD	070	A	2.55	21.83	28.01
CTD	070	A	2.85	21.84	28.01
CTD	070	A	3.15	21.84	28.01
CTD	070	A	3.45	21.84	28.02
CTD	070	A	3.75	21.84	28.01
CTD	070	A	4.05	21.84	28.00
CTD	070	A	4.36	21.84	28.02
CTD	070	A	4.66	21.85	28.03
CTD	070	A	4.96	21.84	28.02
CTD	070	A	5.26	21.84	28.00
CTD	070	A	5.56	21.83	27.98
CTD	070	A	5.91	21.84	28.01
CTD	071	A	0.15	21.84	27.94
CTD	071	A	0.45	21.84	27.95

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	071	A	0.75	21.83	27.95
CTD	071	A	1.05	21.83	27.94
CTD	071	A	1.35	21.83	27.94
CTD	071	A	1.65	21.83	27.95
CTD	071	A	1.95	21.83	27.95
CTD	071	A	2.25	21.84	27.95
CTD	071	A	2.55	21.84	27.95
CTD	071	A	2.85	21.84	27.95
CTD	071	A	3.15	21.85	27.95
CTD	071	A	3.45	21.85	27.94
CTD	071	A	3.75	21.85	27.95
CTD	071	A	4.06	21.85	27.95
CTD	071	A	4.36	21.85	27.95
CTD	071	A	4.66	21.85	27.95
CTD	071	A	4.96	21.85	27.94
CTD	071	A	5.26	21.83	27.90
CTD	071	A	5.56	21.82	27.82
CTD	071	A	5.72	21.82	27.83
CTD	072	A	0.15	21.78	29.32
CTD	072	A	0.45	21.76	29.33
CTD	072	A	0.75	21.78	29.33
CTD	072	A	1.05	21.78	29.33
CTD	072	A	1.35	21.78	29.33
CTD	072	A	1.65	21.77	29.33
CTD	072	A	1.95	21.77	29.32
CTD	072	A	2.25	21.77	29.32
CTD	072	A	2.55	21.78	29.32
CTD	072	A	2.85	21.78	29.32
CTD	072	A	3.15	21.78	29.32
CTD	072	A	3.45	21.78	29.31

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	072	A	3.75	21.78	29.31
CTD	072	A	4.05	21.78	29.31
CTD	072	A	4.35	21.78	29.31
CTD	072	A	4.65	21.78	29.31
CTD	072	A	4.95	21.78	29.31
CTD	072	A	5.25	21.78	29.31
CTD	072	A	5.55	21.78	29.31
CTD	072	A	5.85	21.78	29.31
CTD	072	A	6.15	21.78	29.30
CTD	072	A	6.45	21.78	29.29
CTD	072	A	6.76	21.79	29.30
CTD	073	A	0.15	21.74	29.52
CTD	073	A	0.45	21.71	29.48
CTD	073	A	0.75	21.70	29.50
CTD	073	A	1.05	21.70	29.52
CTD	073	A	1.35	21.72	29.52
CTD	073	A	1.65	21.72	29.52
CTD	073	A	1.95	21.73	29.52
CTD	073	A	2.25	21.73	29.52
CTD	073	A	2.55	21.73	29.52
CTD	073	A	2.85	21.74	29.52
CTD	073	A	3.15	21.74	29.52
CTD	073	A	3.45	21.74	29.52
CTD	073	A	3.75	21.74	29.52
CTD	073	A	4.05	21.74	29.51
CTD	073	A	4.35	21.74	29.51
CTD	073	A	4.65	21.74	29.51
CTD	073	A	4.95	21.74	29.51
CTD	073	A	5.25	21.74	29.51
CTD	073	A	5.55	21.74	29.51

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	073	A	5.85	21.74	29.51
CTD	073	A	6.15	21.74	29.52
CTD	073	A	6.45	21.74	29.51
CTD	073	A	6.75	21.74	29.50
CTD	073	A	7.05	21.74	29.37
CTD	073	A	7.23	21.75	29.17
CTD	074	A	0.15	21.65	29.82
CTD	074	A	0.45	21.64	29.83
CTD	074	A	0.75	21.64	29.82
CTD	074	A	1.05	21.65	29.84
CTD	074	A	1.35	21.65	29.85
CTD	074	A	1.65	21.65	29.84
CTD	074	A	1.95	21.64	29.86
CTD	074	A	2.25	21.64	29.87
CTD	074	A	2.55	21.64	29.88
CTD	074	A	2.85	21.64	29.87
CTD	074	A	3.15	21.65	29.87
CTD	074	A	3.45	21.64	29.87
CTD	074	A	3.75	21.65	29.87
CTD	074	A	4.05	21.65	29.88
CTD	074	A	4.35	21.65	29.89
CTD	074	A	4.65	21.65	29.89
CTD	074	A	4.95	21.65	29.89
CTD	074	A	5.25	21.65	29.88
CTD	074	A	5.55	21.65	29.89
CTD	074	A	5.85	21.65	29.89
CTD	074	A	6.15	21.65	29.90
CTD	074	A	6.45	21.65	29.91
CTD	074	A	6.75	21.65	29.90
CTD	074	A	7.05	21.64	29.91

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	074	A	7.21	21.65	29.91
CTD	075	A	0.15	21.60	29.79
CTD	075	A	0.45	21.59	29.63
CTD	075	A	0.75	21.58	29.67
CTD	075	A	1.05	21.59	29.77
CTD	075	A	1.35	21.59	29.76
CTD	075	A	1.65	21.60	29.78
CTD	075	A	1.95	21.60	29.81
CTD	075	A	2.25	21.60	29.86
CTD	075	A	2.55	21.59	29.87
CTD	075	A	2.85	21.59	29.89
CTD	075	A	3.15	21.59	29.91
CTD	075	A	3.45	21.58	29.92
CTD	075	A	3.75	21.59	29.91
CTD	075	A	4.05	21.58	29.91
CTD	075	A	4.35	21.58	29.91
CTD	075	A	4.65	21.58	29.93
CTD	075	A	4.95	21.57	29.96
CTD	075	A	5.25	21.56	30.06
CTD	075	A	5.55	21.56	30.09
CTD	075	A	5.85	21.56	30.09
CTD	075	A	6.15	21.56	30.09
CTD	075	A	6.45	21.56	30.10
CTD	075	A	6.75	21.56	30.10
CTD	075	A	7.05	21.56	30.09
CTD	075	A	7.35	21.56	30.10
CTD	075	A	7.65	21.55	30.10
CTD	075	A	7.86	21.55	29.94
CTD	076	A	0.15	21.72	29.02
CTD	076	A	0.45	21.71	29.01
CTD	076	A	0.75	21.71	28.97
CTD	076	A	1.05	21.71	29.04
CTD	076	A	1.35	21.70	29.10
CTD	076	A	1.65	21.68	29.19
CTD	076	A	1.95	21.64	29.38
CTD	076	A	2.25	21.61	29.56
CTD	076	A	2.55	21.58	29.76
CTD	076	A	2.85	21.55	29.92
CTD	076	A	3.15	21.53	30.09
CTD	076	A	3.45	21.52	30.15
CTD	076	A	3.75	21.51	30.17
CTD	076	A	4.05	21.51	30.18
CTD	076	A	4.35	21.50	30.19
CTD	076	A	4.65	21.50	30.21
CTD	076	A	4.95	21.50	30.22
CTD	076	A	5.25	21.49	30.24
CTD	076	A	5.55	21.49	30.25
CTD	076	A	5.85	21.48	30.26
CTD	076	A	6.15	21.48	30.27
CTD	076	A	6.45	21.48	30.28
CTD	076	A	6.75	21.48	30.28
CTD	076	A	7.05	21.48	30.28
CTD	076	A	7.35	21.48	30.28
CTD	076	A	7.65	21.48	30.27
CTD	076	A	7.95	21.47	30.24
CTD	076	A	8.16	21.48	30.28
CTD	077	A	0.15	21.51	30.03
CTD	077	A	0.45	21.51	30.02
CTD	077	A	0.75	21.53	30.00
CTD	077	A	1.05	21.53	29.90
CTD	077	A	1.35	21.48	30.04
CTD	077	A	1.65	21.45	30.26
CTD	077	A	1.95	21.47	30.21
CTD	077	A	2.25	21.47	30.21
CTD	077	A	2.55	21.47	30.23
CTD	077	A	2.85	21.47	30.24
CTD	077	A	3.15	21.46	30.28
CTD	077	A	3.45	21.46	30.33
CTD	077	A	3.75	21.45	30.37
CTD	077	A	4.05	21.44	30.42
CTD	077	A	4.35	21.42	30.45
CTD	077	A	4.65	21.41	30.46
CTD	077	A	4.95	21.40	30.47
CTD	077	A	5.25	21.40	30.48
CTD	077	A	5.55	21.40	30.48
CTD	077	A	5.85	21.39	30.49
CTD	077	A	6.15	21.39	30.48
CTD	077	A	6.45	21.39	30.48
CTD	077	A	6.75	21.39	30.48
CTD	077	A	7.05	21.39	30.47
CTD	077	A	7.35	21.38	30.46
CTD	077	A	7.63	21.38	30.49
CTD	078	A	0.15	21.79	29.04
CTD	078	A	0.45	21.71	28.93
CTD	078	A	0.75	21.69	29.03
CTD	078	A	1.05	21.72	28.27
CTD	078	A	1.35	21.74	29.09
CTD	078	A	1.65	21.69	29.41
CTD	078	A	1.95	21.62	29.71
CTD	078	A	2.25	21.57	30.21

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	078	A	2.55	21.51	30.35
CTD	078	A	2.85	21.49	30.44
CTD	078	A	3.15	21.47	30.46
CTD	078	A	3.45	21.44	30.49
CTD	078	A	3.75	21.43	30.51
CTD	078	A	4.05	21.42	30.52
CTD	078	A	4.35	21.41	30.53
CTD	078	A	4.65	21.41	30.53
CTD	078	A	4.95	21.40	30.54
CTD	078	A	5.25	21.40	30.54
CTD	078	A	5.55	21.40	30.55
CTD	078	A	5.85	21.40	30.55
CTD	078	A	6.15	21.40	30.55
CTD	078	A	6.45	21.40	30.55
CTD	078	A	6.75	21.39	30.56
CTD	078	A	7.05	21.39	30.56
CTD	078	A	7.35	21.39	30.56
CTD	078	A	7.65	21.39	30.56
CTD	078	A	8.00	21.39	30.56
CTD	079	A	0.15	21.72	29.48
CTD	079	A	0.45	21.72	29.47
CTD	079	A	0.75	21.70	29.51
CTD	079	A	1.05	21.65	29.66
CTD	079	A	1.35	21.61	29.77
CTD	079	A	1.65	21.54	29.96
CTD	079	A	1.95	21.48	30.14
CTD	079	A	2.25	21.42	30.39
CTD	079	A	2.55	21.39	30.49
CTD	079	A	2.85	21.37	30.55
CTD	079	A	3.15	21.37	30.56

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	079	A	3.45	21.37	30.56
CTD	079	A	3.75	21.36	30.57
CTD	079	A	4.05	21.36	30.57
CTD	079	A	4.35	21.36	30.58
CTD	079	A	4.65	21.36	30.58
CTD	079	A	4.95	21.36	30.58
CTD	079	A	5.25	21.36	30.58
CTD	079	A	5.55	21.35	30.58
CTD	079	A	5.85	21.35	30.58
CTD	079	A	6.15	21.35	30.58
CTD	079	A	6.45	21.35	30.58
CTD	079	A	6.75	21.35	30.59
CTD	079	A	7.05	21.35	30.59
CTD	079	A	7.35	21.35	30.59
CTD	079	A	7.65	21.35	30.59
CTD	079	A	7.95	21.35	30.58
CTD	079	A	8.25	21.35	30.59
CTD	079	A	8.55	21.35	30.59
CTD	079	A	8.85	21.35	30.58
CTD	079	A	9.29	21.35	30.58
CTD	080	A	0.15	21.71	29.59
CTD	080	A	0.45	21.71	29.59
CTD	080	A	0.75	21.70	29.59
CTD	080	A	1.05	21.69	29.59
CTD	080	A	1.35	21.66	29.61
CTD	080	A	1.65	21.61	29.72
CTD	080	A	1.95	21.58	29.91
CTD	080	A	2.25	21.58	30.01
CTD	080	A	2.55	21.55	30.03
CTD	080	A	2.85	21.51	30.08

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	080	A	3.15	21.48	30.14
CTD	080	A	3.45	21.45	30.21
CTD	080	A	3.75	21.42	30.28
CTD	080	A	4.05	21.39	30.33
CTD	080	A	4.35	21.36	30.43
CTD	080	A	4.65	21.34	30.47
CTD	080	A	4.95	21.33	30.49
CTD	080	A	5.25	21.31	30.51
CTD	080	A	5.55	21.30	30.53
CTD	080	A	5.85	21.28	30.55
CTD	080	A	6.15	21.28	30.57
CTD	080	A	6.45	21.27	30.58
CTD	080	A	6.75	21.26	30.59
CTD	080	A	7.05	21.26	30.60
CTD	080	A	7.35	21.25	30.60
CTD	080	A	7.65	21.25	30.61
CTD	080	A	7.95	21.24	30.61
CTD	080	A	8.25	21.24	30.61
CTD	080	A	8.55	21.23	30.62
CTD	080	A	8.85	21.23	30.62
CTD	080	A	9.15	21.23	30.62
CTD	080	A	9.45	21.23	30.62
CTD	080	A	9.75	21.24	30.61
CTD	080	A	10.05	21.23	30.61
CTD	080	A	10.35	21.22	30.63
CTD	080	A	10.64	21.22	30.63
CTD	081	A	0.15	21.92	29.89
CTD	081	A	0.45	21.92	29.89
CTD	081	A	0.75	21.92	29.89
CTD	081	A	1.05	21.92	29.89

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	081	A	1.35	21.92	29.89
CTD	081	A	1.65	21.92	29.88
CTD	081	A	1.95	21.93	29.88
CTD	081	A	2.25	21.92	29.88
CTD	081	A	2.55	21.92	29.88
CTD	081	A	2.85	21.92	29.88
CTD	081	A	3.15	21.92	29.88
CTD	081	A	3.45	21.92	29.88
CTD	081	A	3.75	21.92	29.88
CTD	081	A	4.05	21.92	29.88
CTD	081	A	4.35	21.92	29.88
CTD	081	A	4.65	21.91	29.88
CTD	081	A	4.95	21.92	29.88
CTD	081	A	5.25	21.92	29.88
CTD	081	A	5.55	21.92	29.88
CTD	081	A	5.85	21.92	29.88
CTD	081	A	6.15	21.92	29.88
CTD	081	A	6.45	21.92	29.88
CTD	081	A	6.75	21.92	29.88
CTD	081	A	7.05	21.92	29.88
CTD	081	A	7.35	21.92	29.87
CTD	081	A	7.65	21.92	29.87
CTD	081	A	7.95	21.92	29.88
CTD	081	A	8.25	21.92	29.88
CTD	081	A	8.55	21.92	29.88
CTD	081	A	8.85	21.92	29.87
CTD	081	A	9.16	21.92	29.88
CTD	081	A	9.46	21.92	29.86
CTD	081	A	9.76	21.93	29.85
CTD	081	A	10.02	21.94	29.82

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	082	A	0.15	21.97	29.75
CTD	082	A	0.45	21.98	29.73
CTD	082	A	0.75	21.98	29.74
CTD	082	A	1.05	21.99	29.74
CTD	082	A	1.35	21.98	29.75
CTD	082	A	1.65	21.98	29.76
CTD	082	A	1.95	21.97	29.76
CTD	082	A	2.25	21.97	29.75
CTD	082	A	2.55	21.97	29.74
CTD	082	A	2.85	21.97	29.74
CTD	082	A	3.15	21.97	29.75
CTD	082	A	3.45	21.96	29.76
CTD	082	A	3.75	21.96	29.76
CTD	082	A	4.05	21.96	29.78
CTD	082	A	4.35	21.95	29.79
CTD	082	A	4.65	21.95	29.81
CTD	082	A	4.95	21.94	29.84
CTD	082	A	5.25	21.95	29.81
CTD	082	A	5.55	21.96	29.77
CTD	082	A	5.85	21.94	29.77
CTD	082	A	6.15	21.91	29.84
CTD	082	A	6.45	21.90	29.91
CTD	082	A	6.75	21.89	29.93
CTD	082	A	7.05	21.89	29.93
CTD	082	A	7.35	21.89	29.93
CTD	082	A	7.65	21.89	29.93
CTD	082	A	7.95	21.89	29.93
CTD	082	A	8.25	21.89	29.94
CTD	082	A	8.55	21.89	29.93
CTD	082	A	8.85	21.89	29.93

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	082	A	9.15	21.89	29.93
CTD	082	A	9.45	21.89	29.93
CTD	082	A	9.75	21.89	29.93
CTD	082	A	10.05	21.89	29.92
CTD	082	A	10.35	21.89	29.90
CTD	082	A	10.63	21.89	29.87
CTD	083	A	0.15	22.10	29.31
CTD	083	A	0.45	22.08	29.43
CTD	083	A	0.75	22.07	29.52
CTD	083	A	1.05	22.07	29.50
CTD	083	A	1.35	22.07	29.47
CTD	083	A	1.65	22.06	29.47
CTD	083	A	1.95	22.06	29.48
CTD	083	A	2.25	22.05	29.52
CTD	083	A	2.55	22.04	29.56
CTD	083	A	2.85	22.04	29.55
CTD	083	A	3.15	22.04	29.56
CTD	083	A	3.45	22.04	29.59
CTD	083	A	3.75	22.03	29.59
CTD	083	A	4.05	22.02	29.62
CTD	083	A	4.35	22.01	29.66
CTD	083	A	4.65	22.02	29.67
CTD	083	A	4.95	22.02	29.67
CTD	083	A	5.25	22.01	29.68
CTD	083	A	5.55	22.01	29.68
CTD	083	A	5.85	22.00	29.68
CTD	083	A	6.15	21.99	29.71
CTD	083	A	6.45	21.98	29.74
CTD	083	A	6.75	21.98	29.75
CTD	083	A	7.05	21.98	29.76

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	083	A	7.35	21.97	29.77
CTD	083	A	7.65	21.97	29.78
CTD	083	A	7.95	21.97	29.77
CTD	083	A	8.25	21.96	29.78
CTD	083	A	8.55	21.95	29.83
CTD	083	A	8.85	21.95	29.84
CTD	083	A	9.15	21.95	29.86
CTD	083	A	9.45	21.93	29.87
CTD	083	A	9.75	21.93	29.87
CTD	083	A	10.05	21.93	29.86
CTD	083	A	10.35	21.93	29.87
CTD	083	A	10.65	21.92	29.87
CTD	083	A	10.97	21.92	29.89
CTD	084	A	0.15	22.25	28.91
CTD	084	A	0.45	22.24	28.92
CTD	084	A	0.75	22.21	28.97
CTD	084	A	1.05	22.19	29.07
CTD	084	A	1.35	22.18	29.11
CTD	084	A	1.65	22.15	29.17
CTD	084	A	1.95	22.12	29.27
CTD	084	A	2.25	22.11	29.31
CTD	084	A	2.55	22.10	29.37
CTD	084	A	2.85	22.10	29.39
CTD	084	A	3.15	22.08	29.41
CTD	084	A	3.45	22.06	29.46
CTD	084	A	3.75	22.04	29.52
CTD	084	A	4.05	22.02	29.58
CTD	084	A	4.35	22.00	29.62
CTD	084	A	4.65	21.99	29.62
CTD	084	A	4.95	21.97	29.71

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	084	A	5.25	21.96	29.74
CTD	084	A	5.55	21.96	29.76
CTD	084	A	5.85	21.96	29.79
CTD	084	A	6.15	21.95	29.80
CTD	084	A	6.45	21.95	29.80
CTD	084	A	6.75	21.95	29.81
CTD	084	A	7.05	21.94	29.83
CTD	084	A	7.35	21.94	29.84
CTD	084	A	7.65	21.94	29.85
CTD	084	A	7.95	21.93	29.86
CTD	084	A	8.25	21.93	29.86
CTD	084	A	8.55	21.93	29.87
CTD	084	A	8.85	21.93	29.87
CTD	084	A	9.15	21.93	29.88
CTD	084	A	9.45	21.93	29.87
CTD	084	A	9.75	21.93	29.87
CTD	084	A	10.05	21.93	29.87
CTD	084	A	10.35	21.93	29.87
CTD	084	A	10.65	21.92	29.85
CTD	084	A	11.05	21.93	29.87
CTD	085	A	0.15	22.23	28.97
CTD	085	A	0.45	22.22	28.98
CTD	085	A	0.75	22.21	28.99
CTD	085	A	1.05	22.20	29.02
CTD	085	A	1.35	22.20	29.02
CTD	085	A	1.65	22.20	29.02
CTD	085	A	1.95	22.20	29.03
CTD	085	A	2.25	22.20	29.02
CTD	085	A	2.55	22.19	29.05
CTD	085	A	2.85	22.18	29.07

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	085	A	3.15	22.17	29.09
CTD	085	A	3.45	22.13	29.22
CTD	085	A	3.75	22.09	29.31
CTD	085	A	4.05	22.08	29.37
CTD	085	A	4.35	22.07	29.40
CTD	085	A	4.65	22.06	29.43
CTD	085	A	4.95	22.05	29.53
CTD	085	A	5.25	22.05	29.55
CTD	085	A	5.55	22.04	29.55
CTD	085	A	5.85	22.02	29.63
CTD	085	A	6.15	22.02	29.65
CTD	085	A	6.45	22.01	29.67
CTD	085	A	6.75	21.99	29.69
CTD	085	A	7.05	21.98	29.70
CTD	085	A	7.35	21.97	29.73
CTD	085	A	7.65	21.96	29.75
CTD	085	A	7.95	21.95	29.77
CTD	085	A	8.25	21.95	29.79
CTD	085	A	8.55	21.94	29.80
CTD	085	A	8.85	21.94	29.81
CTD	085	A	9.15	21.94	29.82
CTD	085	A	9.45	21.94	29.82
CTD	085	A	9.75	21.94	29.82
CTD	085	A	10.05	21.94	29.82
CTD	085	A	10.35	21.94	29.84
CTD	085	A	10.65	21.93	29.84
CTD	085	A	10.90	21.93	29.84
CTD	086	A	0.15	22.14	29.20
CTD	086	A	0.45	22.14	29.12
CTD	086	A	0.75	22.13	29.10

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	086	A	1.05	22.16	29.11
CTD	086	A	1.35	22.17	29.05
CTD	086	A	1.65	22.17	29.05
CTD	086	A	1.95	22.16	29.09
CTD	086	A	2.25	22.15	29.14
CTD	086	A	2.55	22.15	29.19
CTD	086	A	2.85	22.13	29.21
CTD	086	A	3.15	22.09	29.30
CTD	086	A	3.45	22.04	29.46
CTD	086	A	3.75	22.03	29.50
CTD	086	A	4.05	22.02	29.54
CTD	086	A	4.35	22.01	29.56
CTD	086	A	4.65	22.01	29.59
CTD	086	A	4.95	22.00	29.62
CTD	086	A	5.25	21.99	29.65
CTD	086	A	5.55	21.98	29.66
CTD	086	A	5.85	21.98	29.66
CTD	086	A	6.15	21.98	29.68
CTD	086	A	6.45	21.97	29.69
CTD	086	A	6.75	21.97	29.69
CTD	086	A	7.05	21.97	29.69
CTD	086	A	7.35	21.96	29.71
CTD	086	A	7.65	21.95	29.73
CTD	086	A	7.95	21.95	29.74
CTD	086	A	8.25	21.95	29.74
CTD	086	A	8.55	21.95	29.75
CTD	086	A	8.85	21.95	29.75
CTD	086	A	9.15	21.95	29.76
CTD	086	A	9.45	21.95	29.76
CTD	086	A	9.75	21.95	29.75
CTD	086	A	10.05	21.95	29.75
CTD	086	A	10.35	21.94	29.75
CTD	086	A	10.80	21.94	29.75
CTD	087	A	0.15	22.37	28.32
CTD	087	A	0.45	22.35	28.37
CTD	087	A	0.75	22.33	28.45
CTD	087	A	1.05	22.34	28.49
CTD	087	A	1.35	22.36	28.37
CTD	087	A	1.65	22.35	28.40
CTD	087	A	1.95	22.33	28.43
CTD	087	A	2.25	22.32	28.53
CTD	087	A	2.55	22.32	28.51
CTD	087	A	2.85	22.32	28.51
CTD	087	A	3.15	22.32	28.50
CTD	087	A	3.45	22.30	28.49
CTD	087	A	3.75	22.28	28.56
CTD	087	A	4.05	22.27	28.68
CTD	087	A	4.35	22.25	28.85
CTD	087	A	4.65	22.24	29.00
CTD	087	A	4.95	22.22	29.08
CTD	087	A	5.25	22.21	29.15
CTD	087	A	5.55	22.17	29.29
CTD	087	A	5.85	22.15	29.35
CTD	087	A	6.16	22.13	29.42
CTD	087	A	6.46	22.09	29.49
CTD	087	A	6.76	22.07	29.52
CTD	087	A	7.06	22.05	29.54
CTD	087	A	7.36	22.03	29.58
CTD	087	A	7.66	22.02	29.60
CTD	087	A	7.96	22.01	29.61
CTD	087	A	8.26	21.99	29.65
CTD	087	A	8.56	21.97	29.67
CTD	087	A	8.86	21.96	29.69
CTD	087	A	9.16	21.96	29.69
CTD	087	A	9.46	21.97	29.69
CTD	087	A	9.76	21.96	29.69
CTD	087	A	10.06	21.93	29.71
CTD	087	A	10.49	21.94	29.71
CTD	088	A	0.15	22.33	28.43
CTD	088	A	0.45	22.33	28.46
CTD	088	A	0.75	22.35	28.45
CTD	088	A	1.05	22.40	28.07
CTD	088	A	1.35	22.40	28.12
CTD	088	A	1.65	22.42	28.01
CTD	088	A	1.95	22.43	27.95
CTD	088	A	2.25	22.44	27.86
CTD	088	A	2.55	22.44	27.88
CTD	088	A	2.85	22.44	27.75
CTD	088	A	3.15	22.44	27.79
CTD	088	A	3.45	22.44	27.82
CTD	088	A	3.75	22.44	27.94
CTD	088	A	4.06	22.41	28.21
CTD	088	A	4.36	22.30	28.72
CTD	088	A	4.66	22.24	29.05
CTD	088	A	4.96	22.21	29.19
CTD	088	A	5.26	22.17	29.29
CTD	088	A	5.56	22.16	29.34
CTD	088	A	5.86	22.14	29.40
CTD	088	A	6.16	22.11	29.49
CTD	088	A	6.46	22.09	29.51
CTD	088	A	6.76	22.08	29.52

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	088	A	7.06	22.07	29.54
CTD	088	A	7.36	22.06	29.55
CTD	088	A	7.66	22.05	29.57
CTD	088	A	7.96	22.04	29.58
CTD	088	A	8.26	22.04	29.60
CTD	088	A	8.56	22.04	29.61
CTD	088	A	8.86	22.03	29.61
CTD	088	A	9.16	22.03	29.62
CTD	088	A	9.46	22.03	29.61
CTD	088	A	9.76	22.03	29.61
CTD	088	A	10.06	22.02	29.61
CTD	088	A	10.45	22.03	29.62
CTD	089	A	0.15	22.41	27.80
CTD	089	A	0.45	22.42	27.74
CTD	089	A	0.75	22.45	27.54
CTD	089	A	1.05	22.45	27.52
CTD	089	A	1.35	22.43	27.47
CTD	089	A	1.65	22.41	27.56
CTD	089	A	1.95	22.39	27.78
CTD	089	A	2.25	22.41	27.86
CTD	089	A	2.55	22.43	27.69
CTD	089	A	2.85	22.40	27.84
CTD	089	A	3.16	22.38	28.07
CTD	089	A	3.46	22.39	28.10
CTD	089	A	3.76	22.37	28.19
CTD	089	A	4.06	22.35	28.21
CTD	089	A	4.36	22.31	28.32
CTD	089	A	4.66	22.23	28.78
CTD	089	A	4.96	22.18	29.03
CTD	089	A	5.26	22.15	29.33

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	089	A	5.56	22.11	29.36
CTD	089	A	5.86	22.09	29.39
CTD	089	A	6.16	22.07	29.40
CTD	089	A	6.46	22.06	29.45
CTD	089	A	6.76	22.05	29.48
CTD	089	A	7.06	22.03	29.51
CTD	089	A	7.36	22.00	29.50
CTD	089	A	7.66	21.98	29.48
CTD	089	A	7.96	21.97	29.47
CTD	089	A	8.26	21.99	29.44
CTD	089	A	8.56	22.00	29.44
CTD	089	A	8.86	21.99	29.45
CTD	089	A	9.16	21.96	29.45
CTD	089	A	9.46	21.96	29.46
CTD	089	A	9.76	22.00	29.41
CTD	089	A	10.06	22.01	29.49
CTD	089	A	10.36	21.74	29.73
CTD	089	A	10.66	21.55	29.95
CTD	090	A	0.15	22.41	27.72
CTD	090	A	0.45	22.40	27.59
CTD	090	A	0.75	22.39	27.75
CTD	090	A	1.05	22.40	27.70
CTD	090	A	1.35	22.41	27.63
CTD	090	A	1.65	22.41	27.58
CTD	090	A	1.95	22.43	27.52
CTD	090	A	2.25	22.44	27.48
CTD	090	A	2.55	22.45	27.40
CTD	090	A	2.85	22.45	27.36
CTD	090	A	3.16	22.45	27.34
CTD	090	A	3.46	22.45	27.33

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	090	A	3.76	22.44	27.37
CTD	090	A	4.06	22.43	27.39
CTD	090	A	4.36	22.42	27.48
CTD	090	A	4.66	22.38	27.59
CTD	090	A	4.96	22.32	27.96
CTD	090	A	5.26	22.24	28.75
CTD	090	A	5.56	22.13	29.24
CTD	090	A	5.86	22.03	29.45
CTD	090	A	6.16	21.96	29.59
CTD	090	A	6.46	21.92	29.61
CTD	090	A	6.76	21.90	29.63
CTD	090	A	7.06	21.85	29.71
CTD	090	A	7.36	21.80	29.77
CTD	090	A	7.66	21.77	29.80
CTD	090	A	7.96	21.72	29.83
CTD	090	A	8.26	21.66	29.90
CTD	090	A	8.56	21.58	29.97
CTD	090	A	8.86	21.55	30.03
CTD	090	A	9.16	21.50	30.07
CTD	090	A	9.46	21.46	30.10
CTD	090	A	9.76	21.40	30.15
CTD	090	A	10.06	21.44	30.12
CTD	090	A	10.36	21.40	30.15
CTD	090	A	10.66	21.22	30.28
CTD	090	A	10.94	21.21	30.29
CTD	091	A	0.15	22.33	27.50
CTD	091	A	0.45	22.32	27.49
CTD	091	A	0.75	22.32	27.53
CTD	091	A	1.05	22.32	27.54
CTD	091	A	1.35	22.33	27.53

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	091	A	1.65	22.33	27.54
CTD	091	A	1.95	22.33	27.60
CTD	091	A	2.25	22.32	27.63
CTD	091	A	2.55	22.32	27.66
CTD	091	A	2.85	22.32	27.73
CTD	091	A	3.16	22.31	27.73
CTD	091	A	3.46	22.31	27.83
CTD	091	A	3.76	22.31	27.85
CTD	091	A	4.06	22.31	27.90
CTD	091	A	4.36	22.31	27.90
CTD	091	A	4.66	22.31	27.87
CTD	091	A	4.96	22.31	27.90

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	091	A	5.26	22.30	27.89
CTD	091	A	5.56	22.28	27.92
CTD	091	A	5.86	22.24	28.46
CTD	091	A	6.16	22.19	28.92
CTD	091	A	6.46	22.14	29.27
CTD	091	A	6.76	22.09	29.50
CTD	091	A	7.06	22.04	29.59
CTD	091	A	7.36	21.99	29.71
CTD	091	A	7.66	21.97	29.74
CTD	091	A	7.96	21.95	29.76
CTD	091	A	8.26	21.94	29.76
CTD	091	A	8.56	21.93	29.76

Sample Type	Station ID	Cast	Depth (m)	Temp (°C)	Salinity (psu)
CTD	091	A	8.86	21.91	29.78
CTD	091	A	9.16	21.89	29.80
CTD	091	A	9.46	21.87	29.82
CTD	091	A	9.76	21.83	29.89
CTD	091	A	10.06	21.74	29.95
CTD	091	A	10.36	21.65	30.00
CTD	091	A	10.66	21.77	29.92
CTD	091	A	10.96	21.83	29.88
CTD	091	A	11.26	21.53	30.03
CTD	091	A	11.69	21.41	30.17

Group	Station ID	Cast	Bottom Depth (m)	Temperature (C)
Bay Ridge Channel	001	A	8.4	21.2
Bay Ridge Channel	002	A	11.2	21.4
Bay Ridge Channel	003	A	11.8	21.4
Bay Ridge Channel	004	A	12.1	21.6
Bay Ridge Channel	005	A	11.9	22.0
Bay Ridge Channel	006	A	12.6	21.8
Bay Ridge Channel	007	A	13.2	21.5
Bay Ridge Channel	008	A	12.4	21.5
Bay Ridge Channel	009	A	11.8	21.5
Bay Ridge Channel	010	A	12.4	22.0
Bay Ridge Channel	011	A	13.8	22.0
Bay Ridge Channel	012	A	15.6	22.1
Bay Ridge Channel	013	A	14.8	20.9
Bay Ridge Channel	014	A	14.5	22.3
Bay Ridge Channel	015	A	13.5	21.5
Bay Ridge Channel	016	A	13.0	21.4
Verrazano Narrows	017	A	14.4	21.3
Verrazano Narrows	018	A	14.7	21.4
Verrazano Narrows	019	A	13.7	22.7
Verrazano Narrows	020	A	13.1	21.4
Verrazano Narrows	021	A	10.3	22.6
Verrazano Narrows	022	A	9.5	22.2
Verrazano Narrows	023	A	14.2	22.2
Verrazano Narrows	024	A	17.9	21.3
Verrazano Narrows	025	A	25.2	22.0
Verrazano Narrows	026	A	29.6	21.4
Verrazano Narrows	027	A	31.3	21.7
Verrazano Narrows	028	A	27.2	21.6
Verrazano Narrows	029	A	18.3	21.3
Gravesend Bay	030	A	13.7	21.0
Gravesend Bay	031	A	12.1	21.0
Gravesend Bay	032	A	11.1	21.3
Gravesend Bay	033	A	10.5	21.2
Gravesend Bay	034	A	8.6	23.8
Gravesend Bay	035	A	9.2	23.0
Gravesend Bay	036	A	10.0	23.0
Gravesend Bay	037	A	10.4	22.8
Gravesend Bay	038	A	10.9	22.8
Gravesend Bay	039	A	8.2	22.7
Gravesend Bay	040	A	8.5	22.7
Gravesend Bay	041	A	8.0	22.6
Lower Bay	042	A	9.1	22.5
Lower Bay	043	A	10.1	22.0
Lower Bay	044	A	9.6	22.0
Lower Bay	045	A	10.5	21.2
Lower Bay	046	A	11.1	21.0
Lower Bay	047	A	11.4	21.1

Group	Station ID	Cast	Bottom Depth (m)	Temperature (C)
Lower Bay	048	A	11.5	21.1
Lower Bay	049	A	11.4	21.2
Lower Bay	050	A	11.2	21.1
Lower Bay	051	A	15.8	21.1
Lower Bay	052	A	15.0	21.0
Lower Bay	053	A	15.2	21.5
Lower Bay	054	A	18.4	21.4
Lower Bay	055	A	18.9	21.6
Lower Bay	056	A	20.3	21.5
Lower Bay	057	A	20.7	21.4
Lower Bay	058	A	17.0	21.5
Lower Bay	058	B	17.3	21.5
Lower Bay	059	A	13.3	21.4
Lower Bay	060	A	18.6	21.0
Lower Bay	061	A	20.3	21.3
Lower Bay	062	A	19.3	21.3
Lower Bay	063	A	19.8	21.7
Lower Bay	064	A	18.7	21.6
Lower Bay	065	A	12.9	21.4
Lower Bay	066	A	9.1	21.2
Offshore	067	A	6.9	20.8
Offshore	068	A	6.3	21.0
Offshore	069	A	6.6	20.9
Offshore	070	A	6.2	21.0
Offshore	071	A	6.4	21.4
Offshore	072	A	7.4	21.2
Offshore	073	A	7.9	21.4
Offshore	074	A	8.2	21.2
Offshore	075	A	8.4	21.4
Offshore	076	A	9.0	21.4
Offshore	077	A	8.3	21.4
Offshore	078	A	8.9	21.3
Offshore	079	A	10.0	21.5
Offshore	080	A	11.4	21.5
Offshore	081	A	10.5	22.1
Offshore	082	A	11.2	21.8
Offshore	083	A	11.6	21.8
Offshore	084	A	11.3	21.6
Offshore	085	A	11.6	21.9
Offshore	086	A	11.4	21.6
Offshore	087	A	11.4	21.9
Offshore	088	A	10.9	21.7
Offshore	089	A	11.5	21.6
Offshore	090	A	16.6	21.4
Offshore	091	A	12.1	21.0