

PENOBSCOT RIVER MERCURY STUDY

Chapter 5

Total mercury sedimentary inventories and sedimentary fluxes in the lower Penobscot River and estuary, Maine

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By: K.M. Yeager¹

1. University of Kentucky, Lexington, KY

1 SUMMARY

The assembled data set includes physical, geochemical and radiochemical data derived from the analytical characterization of sediment cores collected from 58 of 72 coring stations during the field season of 2009. These stations were located throughout the lower Penobscot River basin, and include four principal study regions, namely the Penobscot River (PBR), Mendall Marsh (MM), the Orland River (OR) and Fort Point Cove and the lower estuary (ES). The focus of this chapter was sedimentary total mercury (Hg), in particular, examination of the historical and current accumulation rates of Hg in the Penobscot Estuary. This estuary is the location of the HoltraChem chlor-alkali production facility, a primary point source of Hg pollution in the lower Penobscot River basin, which was in operation from 1967 to 2000.

Sediment cores were assessed for depths of physical mixing, distributions and inventories of total Hg, and for the determination of sediment accumulation rates using physical data (porosity, grain size distributions), geochemical data (total Hg profiles) and radiochemical data (^7Be , ^{137}Cs , ^{210}Pb , $^{239,240}\text{Pu}$). The data set indicates that total Hg was rapidly distributed and deposited throughout the system, and that with the exception of parts of the Penobscot River, there is limited evidence of considerable remobilization or mixing. This is supported by the presence of deep, sharp peaks in total Hg, which are easily visible in most sediment cores and which coincide with the years around 1967 in dated sediment cores. However, while the initial transport and deposition of total Hg during the period of its release from HoltraChem was likely dominantly controlled by its association with fine-grained sediments and particulate organic carbon (POC), evidence indicates that since releases of total Hg from HoltraChem ended, lateral transport processes have and are playing an important role in its continued distribution throughout the study system.

Total Hg concentrations in surface sediments above Veazie Dam were measured over six sampling periods in 2006-2007, and ranged from 67-106 ng g^{-1} (Phase I report). This is considered slightly elevated over the total Hg expected from atmospheric deposition alone. Based on assumptions including what constitutes “local background” (100 ng g^{-1}) and “elevated” (300 ng g^{-1}) total Hg concentrations in deposited sediments, and the total Hg inventories that would result, one can assess the level of impact over time (“elevated” $\geq 270 \text{ mg m}^{-2}$, or “highly elevated” $\geq 540 \text{ mg m}^{-2}$). Based on this, 71% of Penobscot River (PBR) stations have “elevated”, and 29% have “highly elevated” total Hg inventories; 45% of Mendall Marsh (MM) stations have “elevated”, and 27% have “highly elevated” total Hg inventories; 80% of Orland River (OR) stations have “elevated” total Hg inventories only; and 17% of combined Fort Point Cove and lower estuary (ES) stations have “elevated” total Hg inventories only. Most of those stations identified as “highly elevated” are located within 7-8 km upstream and downstream of the HoltraChem facility, in Mendall Marsh, in the lower Penobscot River to the north and east of Verona Island, and in the Orland River.

Overall, the methods used to assess sediment accumulation rates agree well, and since at most stations, evidence for significant vertical mixing was restricted to the upper few cm, historic input rates of both radionuclides and total Hg are only minimally distorted. However, many stations exhibit uneven or irregular tracer profiles which likely reflect

lateral inputs of sediments and associated tracers over time. Mean, near-surface (upper 3 cm) total Hg concentrations are greatest in the Orland River (OR, 1,120 ng g⁻¹), followed by the Penobscot River (PBR, 815 ng g⁻¹), then Mendall Marsh (MM, 673 ng g⁻¹), and finally the combined Fort Point Cove and lower estuary (ES, 526 ng g⁻¹). If one were to utilize the following values for “elevated” (300 ng g⁻¹) and “highly elevated” (600 ng g⁻¹) total Hg concentrations, near-surface sediments in the Orland River, Penobscot River and Mendall Marsh would all be classified as “highly elevated”, while those in the combined Fort Point Cove and lower estuary would be classified as “elevated”, on average. Mean, contemporary total Hg fluxes to bottom sediments are greatest in the Orland River (OR, 554 ng cm⁻² y⁻¹), followed by the Penobscot River (PBR, 469 ng cm⁻² y⁻¹), then Mendall Marsh (MM, 452 ng cm⁻² y⁻¹), and finally the combined Fort Point Cove and lower estuary (ES, 204 ng cm⁻² y⁻¹).

2 INTRODUCTION

The Penobscot River is approximately 425 km in length (including the West and South branches), drains a basin of approximately 22,300 km², and represents the second largest river system in New England, after the Connecticut River. The Penobscot River was named by native peoples, who have inhabited the river's lower valley for over 5,000 years. The Penobscot Estuary extends from approximately the city of Bangor, Maine (ME), south to the city of Searsport, Maine, where it meets Penobscot Bay. With a surface area of approximately 90 km², the Penobscot Estuary is the largest estuary in Maine, and part of one of the largest embayments on the east coast of the U.S. The estuary is characterized by an appreciable tidal range, with a measurable tidal influence extending 35 km up river to the city of Bangor.

Prior to the late 1700's, the only sources of pollution to the Penobscot River included sewage and periodically high sediment loads driven by land clearing. Large-scale lumbering began on the Penobscot River in the 1770's, and it has been estimated that approximately 4% of all logs floated down-river sank to the bottom, which equates to some 400 million board feet of wood (Davies 1972). Beginning at this same time, saw mills were constructed along the river and its tributaries, and contributed sawdust, edgings and bark to the waterways, a process which continued through the end of the 1950's (Cutting 1959). The presence of large quantities of sawdust has been documented at the bottom of portions of the lower Penobscot River and estuary (e.g., Haefner 1967; Shorey 1973), a condition which was also observed during field work carried out in 2009 associated with this project. Throughout much of the 1800's, industrial development in the lower Penobscot River basin continued, and included the establishment of flour mills, shipbuilding, as well as cotton and tanning. The rise of pulp and paper mills in the lower basin began in 1889 (Goode 1934), and as this industry rapidly grew, it resulted in the discharge of large quantities of organic matter and industrial solids to the river and its tributaries. These discharges, in turn, drove rapid depletion of dissolved oxygen in receiving waters. By 1960, numerous pulp and paper mills, leather plants and textile plants were located in the lower basin. Residents began to voice concerns about pollution's effect on fisheries and drinking water supplies (Judd and Beach 2003). In 1972, the University of Maine conducted the Penobscot River Study, which concluded that the river was periodically overloaded by oxygen-demanding wastes, and as a result was unable to support most fish species, or to be used as a municipal water supply (Penobscot River Study Team 1972). The passage of the Clean Water Act in 1972 resulted in the beginning of some pollution reduction and mitigation in the Penobscot River and estuary. Industrial and municipal outfalls began to be monitored, and improvements were mandated where needed. Monitored pollutant loads to the river decreased by 85% and all of Maine's Department of Environmental Protection (DEP) sampling sites improved in water quality and macroinvertebrate communities (Davies 1999).

The focus of this study is mercury (Hg), particularly the total Hg associated with sediments in discrete portions of the lower Penobscot River, Mendall Marsh, the Orland River and the combined Fort Point Cove and lower estuary. A primary, known point source of Hg pollution within the lower basin is the HoltraChem chlor-alkali production

facility, which was in operation from 1967 to 2000. Total Hg concentrations measured in sediment collected from the Penobscot River upstream of the limit of tidal influence are of the order of 100 ng g^{-1} dry weight, which is comparable to those of other New England rivers (Morgan 1998; Kamman et al. 2005). In the Penobscot Estuary, total Hg concentrations in surficial, bottom sediments have been reported to range between 125 and $2,750 \text{ ng g}^{-1}$ (Merritt and Amirbahman 2007). The highest total Hg concentration reported in the literature is $230,000 \text{ ng g}^{-1}$, which corresponds to sediment collected within the HoltraChem discharge zone (Morgan 1998). This Hg pollution has resulted in the widespread distribution of elevated concentrations of total Hg in sediments throughout the lower Penobscot River and estuary. In some parts of the system, the physical and geochemical setting has been conducive to the production and sustenance of highly-elevated methyl Hg concentrations, with consequent and demonstrable impacts on ecosystem health.

The objectives of the research presented here include:

- (1) Quantify inventories of total Hg in bottom sediments throughout the lower Penobscot River, Mendall Marsh, the Orland River and the combined Fort Point Cove and lower estuary, focusing on the upper $\sim 1 \text{ m}$ of sediment which corresponds to the historical timeframe (50 to 100 years).
- (2) Quantify sediment accumulation rates throughout these same areas.
- (3) Quantify contemporary sedimentary fluxes of total Hg to sediments throughout these same areas.
- (4) Compare stations where full replicate sediment cores were collected and characterized to assess the degree of variability over small spatial scales.

3 MATERIALS AND METHODS

3.1 Field and Initial Processing

During the field season of 2009, 72 sediment coring stations were established and sampled throughout the lower Penobscot River, Mendall Marsh, the Orland River and the combined Fort Point Cove and lower estuary. The field campaign was organized and led by myself, and necessarily involved cooperating research personnel from the University of New Orleans (UNO), led by Dr. Mark Kulp, and from Normandeau Environmental Consultants, led by Mr. Rick Simmons. At each site, sediment cores were collected in triplicate (216 cores total) utilizing vibracoring, a very common sediment coring method (e.g., Ward et al. 2008; Pre et al. 2011; Yeager et al. 2012). These 72 stations were distributed from just south of Veazie Dam, near Eddington, ME, south through the lower Penobscot River, and through the Penobscot Estuary to Islesboro Island. The locations of these stations were chosen based on preliminary data gathered by the Penobscot River Mercury Study, and the desire to collect an adequate depth of relatively undisturbed sediment sufficient to represent a relevant historical timeframe (50 to 100 years). Four key areas are represented here, including (1) the Penobscot River from well north to well south of the location of the HoltraChem facility near Orrington, ME (Figures 5-1 to 5-4), (2) the Mendall Marsh area (Figure 5-5), (3) the

Orland River (Figure 5-6), and (4) the combined Fort Point Cove and lower estuary (Figures 5-7 and 5-8).

All sediment cores were then returned to my laboratory (at that time within the Department of Marine Science, University of Southern Mississippi) for inspection and initial processing. All three sediment cores from each station were split/cut longitudinally and visually inspected. One core was then selected, with the objective being to select the one core that appeared least disturbed based on observation of the sedimentary section sampled. The other two cores from that station were then discarded. Prior to field work, and in consultation with the cooperating laboratories (Dr. Peter Santschi – Texas A&M University at Galveston – TAMUG; Dr. Robert Flett – Flett Research Ltd. – FLETT) and the Penobscot River Mercury Study Panel, a sediment core sectioning protocol was agreed upon that would produce, with minimal exceptions, a total of 40 sediment samples per core (1-20 cm sectioned at 1 cm, 20-40 cm

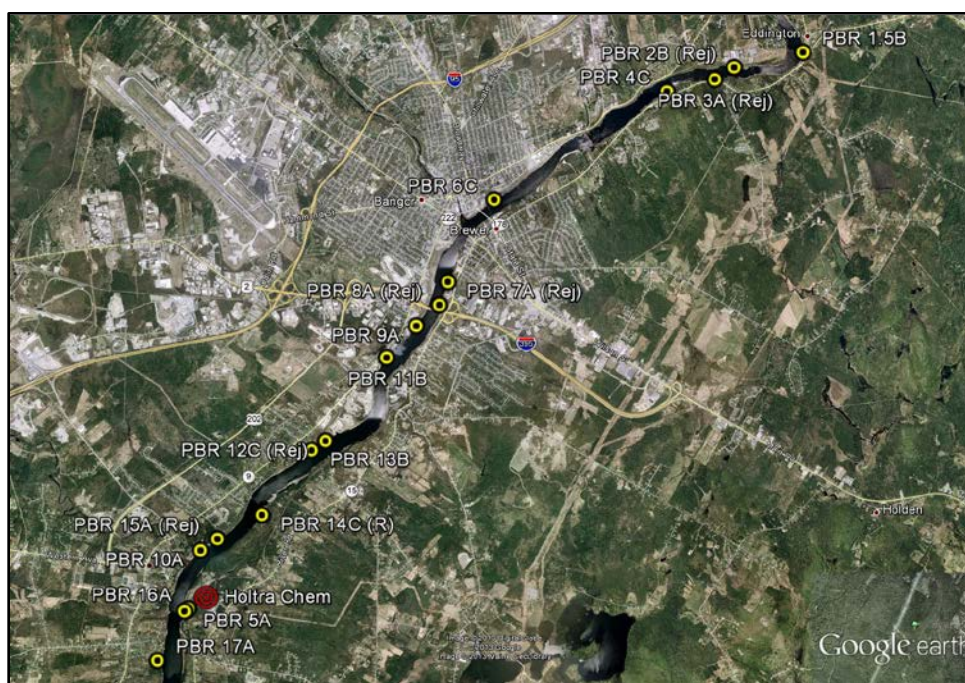


Figure 5-1. Penobscot River stations north of the HoltraChem facility (red symbol). All stations are shown, including those which were subsequently rejected (Rej) based on total Hg profiles. Imagery courtesy of Google Earth (2011).

sectioned at 2 cm, and 40-90 cm sectioned at 5 cm). An iterative pre-screening process was then agreed upon and enacted, where my laboratory provided suitable aliquots of samples from all cores and all intervals to FLETT, who then analyzed these samples for total Hg. Based primarily on considerations that included the maximum concentrations and shape of total Hg profiles in each cored section, sediment cores were recommended to either be fully analytically characterized or to be rejected. These recommendations were shared with and ultimately approved by the Penobscot River Mercury Study Panel. This process resulted in the rejection of sediment cores collected from 14 stations, with sediment cores from 58 stations recommended for full analytical

characterization. These 58 stations were distributed throughout the four study areas as follows, (1) Penobscot River – 24, (2) Mendall Marsh – 11, (3) Orland River – 5, and (4) the combined Fort Point Cove and lower estuary – 18.

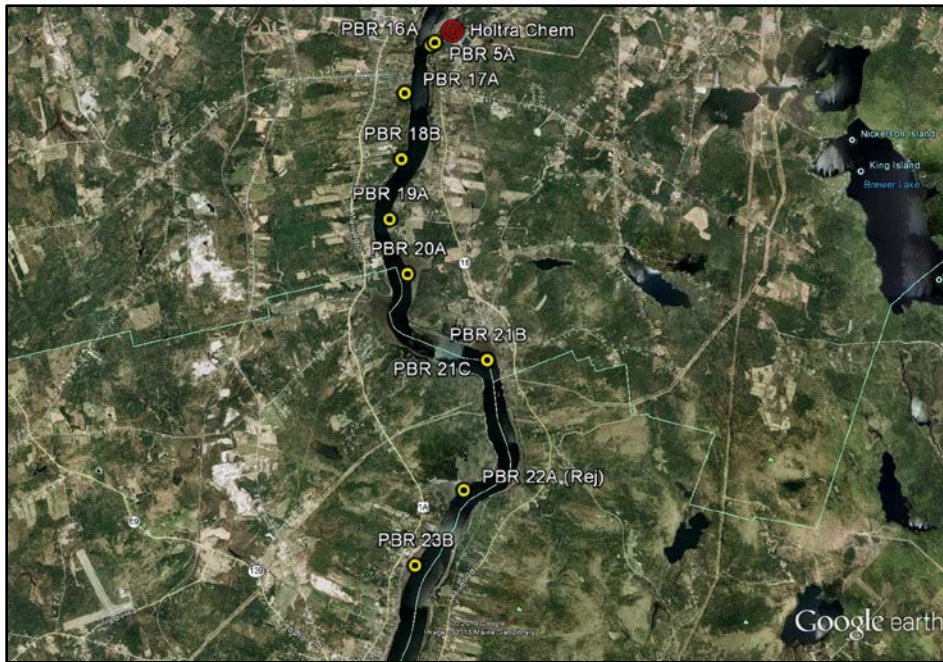


Figure 5-2. Penobscot River stations south of the HoltraChem facility (red symbol). All stations are shown, including those which were subsequently rejected (Rej) based on total Hg profiles. Imagery courtesy of Google Earth (2004).

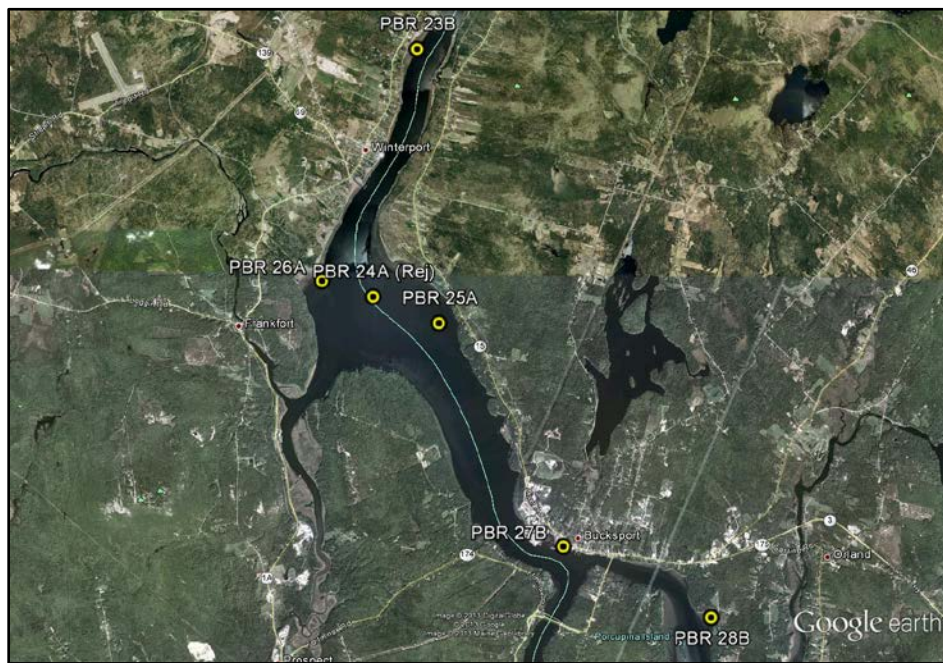


Figure 5-3. Penobscot River stations south of the HoltraChem facility. All stations are shown, including those which were subsequently rejected (Rej) based on total Hg profiles. Imagery courtesy of Google Earth (2011).

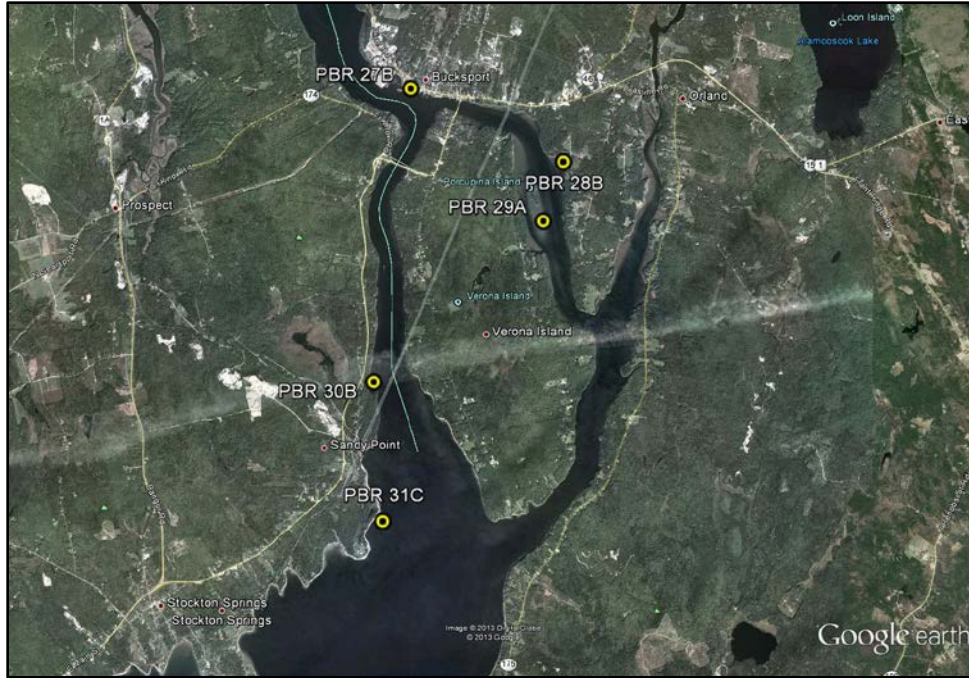


Figure 5-4. Penobscot River stations south of the HoltraChem facility. All stations are shown, including those which were subsequently rejected (Rej) based on total Hg profiles. Imagery courtesy of Google Earth (2011).

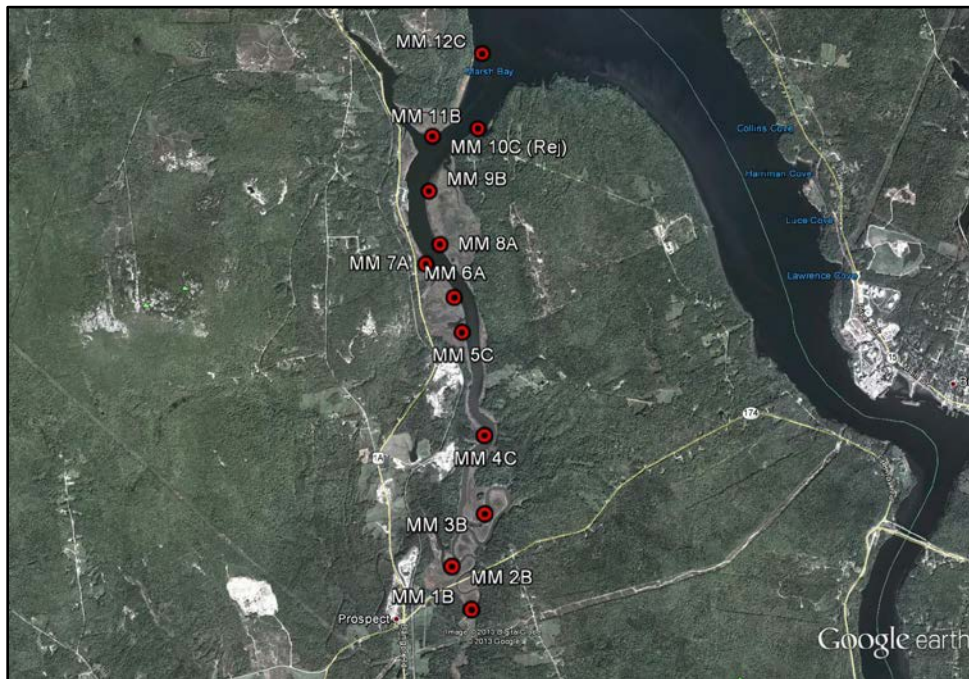


Figure 5-5. Mendall Marsh stations (south of HoltraChem facility). All stations are shown, including that which was subsequently rejected (Rej) based on total Hg profile. Imagery courtesy of Google Earth (2011).

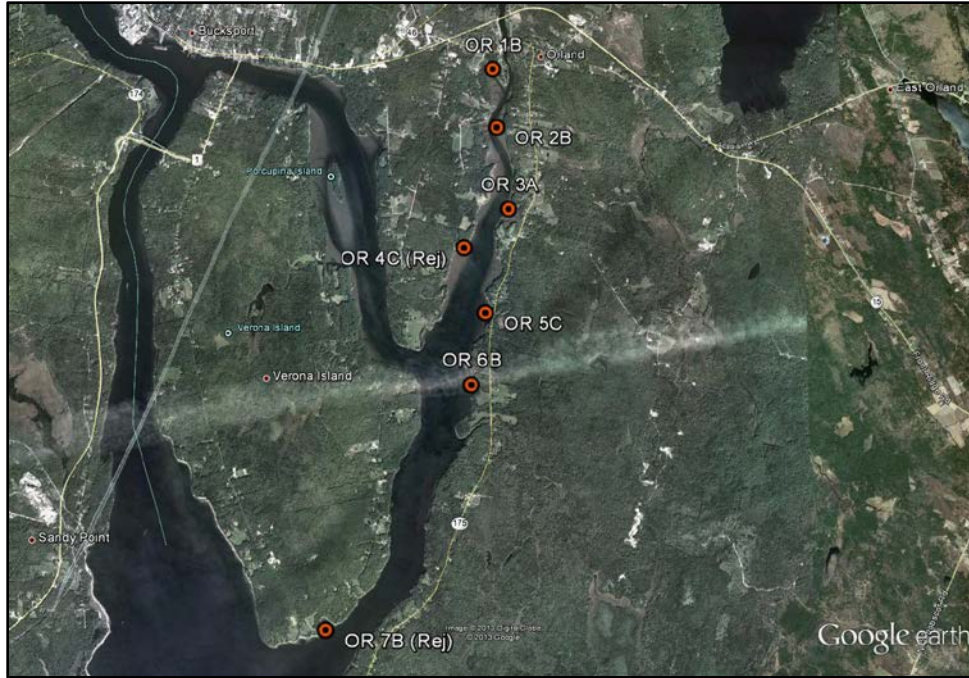


Figure 5-6. Orland River stations (south of HoltraChem facility). All stations are shown, including those which were subsequently rejected (Rej) based on total Hg profiles. Imagery courtesy of Google Earth (2011).

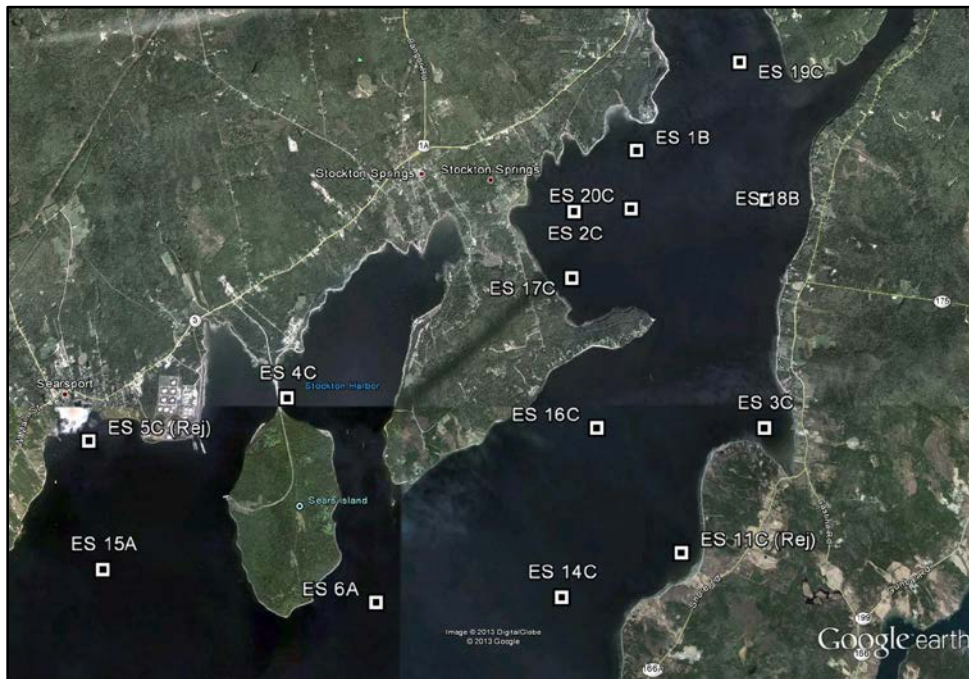


Figure 5-7. Combined Fort Point Cove and lower estuary stations (south of HoltraChem facility). All stations are shown, including those which were subsequently rejected (Rej) based on total Hg profiles. Imagery courtesy of Google Earth (2011).



Figure 5-8. Combined Fort Point Cove and lower estuary stations (south of HoltraChem facility). All stations are shown, including that which was subsequently rejected (Rej) based on total Hg profile. Imagery courtesy of Google Earth (2012).

The quantity of sediment samples (2,320) and number of analyses required necessitated the division of labor between the three cooperating laboratories, as summarized below:

- **USM/University of Kentucky (UK):**

- Responsible for sediment core collection and transport.
- Responsible for sediment core initial processing and supply of samples to other laboratories.
- Responsible for all sediment grain size analyses.
- Responsible for 1/3 of all radionuclides characterization by gamma and alpha spectrometry.

- **TAMUG:**

- Responsible for the determination of sedimentary particulate organic carbon (POC), and total
- nitrogen (N) values on majority of samples.
- Responsible for 1/3 of all radionuclides characterization by gamma and alpha spectrometry.
- Responsible for the determination of total sulfur (S) on a representative sub-set of samples.

- Responsible for the determination of the fallout radionuclides $^{239,240}\text{Pu}$ on a representative sub-set of samples.
- **FLETT:**
 - Responsible for the determination of all sedimentary total Hg concentrations.
 - Responsible for 1/3 of all radionuclides characterization by gamma and alpha spectrometry.

3.2 Physical and Chemical Variables

Sediments from each core interval were weighed, dried, and re-weighed to determine a range of physical variables, including dry bulk density (B_d), fraction of water (f_w), sediment grain density (ρ_s), sediment porosity (ϕ), and sediment mass depth and cumulative mass depth. The calculations for each of these variables are described in Appendix 5-1A, and their values are reported either in Appendix 5-1A or in the data compilation spreadsheets submitted with this report. Sediment textures (grain size) were assessed by quantifying the mineral grain size distribution and sand : silt : clay fractions as defined by the Wentworth Scale (Wentworth 1922). Texture samples were dried at $\sim 75^\circ\text{C}$ for 24 h, gently disaggregated, wet-sieved through 2 and 0.5 mm sieves and treated with dilute H_2O_2 to destroy organic binding agents. Samples were then analyzed using a Malvern Mastersizer, a laser-optical particle size characterization instrument capable of accurately resolving particles over a size range of 0.02 to 2000 μm .

Total N, S and POC were determined by TAMUG via elemental analysis according to methods given in Santschi et al. (2001). Total S data are provided in Dr. Santschi's contributions, and grain size and POC data are provided in Appendix 5-1A and in the data compilation spreadsheets that accompany this report. Concentrations of total Hg were determined by FLETT in accordance with methods described at <http://www.flettresearch.ca/Webdoc2.htm>, and are provided here in Appendix 5-1B.

3.3 Radiochemistry

High-resolution gamma spectrometry was employed to resolve ^7Be ($t_{1/2} = 53$ d, $E_\gamma = 477$ keV), ^{137}Cs ($t_{1/2} = 30$ y, $E_\gamma = 661$ keV) and ^{226}Ra ($t_{1/2} = 1,601$ y, $E_\gamma = 352$ keV) using Canberra HPGe well detectors and multi-channel analyzer, model DSA-1000. Samples were contained in plastic test tubes (inner diameter 1.3 cm, height 9.4 cm), and standards (^{137}Cs and ^{226}Ra : NIST, SRM #4357; ^7Be : Isotope Products Laboratories CN #6007) were prepared and run on each detector in geometries identical to those for sediment samples to determine representative efficiencies. Efficiency errors based on standards were less than $\pm 5\%$, and samples were counted, on average, for 3–4 days to reach a standard deviation for all isotopes of $\sim 3\%$ to 5% . All activities were decay-corrected to the date of collection. Alpha spectrometry was employed to resolve ^{210}Pb ($t_{1/2} = 22.3$ y) via ^{210}Po using a Canberra integrated alpha spectrometer, model 7200. Lead-210 samples were spiked with a certified ^{209}Po tracer (Isotope Products Laboratory, #6209-100N) and completely digested (HF, HCl, HNO_3) over heat. Ascorbic acid was then added to bind free Fe (III), and a silver disk was added to the solution

over heat to provide a substrate for the spontaneous deposition of polonium isotopes (Santschi et al. 1999; Yeager et al. 2004, 2007, 2012). Unsupported, or “excess” ^{210}Pb ($^{210}\text{Pb}_{\text{xs}}$) was determined by $^{210}\text{Pb}_{\text{xs}} = \text{Total } ^{210}\text{Pb} - ^{226}\text{Ra}\text{-supported } ^{210}\text{Pb}$, where the supported ^{210}Pb fraction was estimated as the mean total ^{210}Pb at the bottom of each sediment core profile. The specific radiochemistry methods utilized by TAMUG are similar and are provided in Dr. Santschi’s report (including those for $^{239,240}\text{Pu}$). The methods employed by FLETT for the determination of ^{210}Pb and ^{137}Cs can be found at <http://www.flettresearch.ca/index.htm>

3.4 Sediment Accumulation Modeling

The constant fallout radionuclide ^7Be has been used successfully to assess depths of short-term (~1 y) sediment mixing in a range of terrestrial and aquatic settings (e.g., Clifton et al. 1995; Wheatcroft and Drake 2003; Yeager et al. 2004, 2012), and was utilized here for most of the cores collected from the Mendall Marsh area. For those cores collected throughout the remainder of the study system, ^7Be data were not available due to its short half-life (53 d) and the time required for analytical processing.

Sediment accumulation rates have been determined in a range of terrestrial and aquatic settings using the bomb-fallout radionuclides ^{137}Cs and $^{239,240}\text{Pu}$ (e.g., DeLaune et al. 1978; Edgington et al. 1991; Fuller et al. 1999; Yeager et al. 2006), and are determined here by:

$$S = (D_{\text{pk}}/t) \tag{1}$$

Where:

S = sediment accumulation rate (cm y^{-1})

D_{pk} = depth at which the maximum ^{137}Cs or $^{239,240}\text{Pu}$ concentration occurs (1963), or alternatively, the first time that either isotope can be determined (1953)

t = time.

This model assumes limited vertical mobility of both isotopes in sediments (Huntley et al. 1995; Winkels et al. 1998; Valero-Garces et al. 1999).

As with the other radionuclides utilized here, ^{210}Pb has been widely employed to determine sediment geochronology and rates of sediment accumulation in many terrestrial and aquatic settings (e.g., Carpenter et al. 1985; Schuler et al. 1991; Santschi et al. 1999; Yeager et al. 2004). Because there are significant differences in the sampled environments, particularly in terms of the frequency and/or duration of inundation, more than one modeling approach using ^{210}Pb is appropriate. For those parts of the system where inundation is periodic, and controlled principally by the tidal cycle and to a lesser extent by river stage (Penobscot River, Mendall Marsh, Orland River), sediment accumulation rates were determined using the constant flux model (Appleby and Oldfield 1978, 1992; Appleby 2008). This model is appropriate for settings such as these, where ^{210}Pb fallout may be constant, but sedimentation is not. The $^{210}\text{Pb}_{\text{xs}}$ distribution as a function of mass depth is:

$${}^{210}\text{Pb}_{\text{xs}} = F_{210}e^{-\lambda t}/S_a \quad (2)$$

Where:

F_{210} = flux of ${}^{210}\text{Pb}$

λ = ${}^{210}\text{Pb}$ decay constant (0.031 y^{-1})

t = time

S_a = sediment mass accumulation rate (MAR) ($\text{g cm}^{-2} \text{ y}^{-1}$).

The sediment MAR as a function of mass depth is:

$$S_a = \Delta m/\Delta t \quad (3)$$

Where:

m = mass depth (g cm^{-2})

For those parts of the system where inundation is constant (combined Fort Point Cove and lower estuary) the constant flux-constant sedimentation (CF-CS) (Robbins 1978) model is utilized, which calculates sedimentation rates assuming steady state conditions and a relatively constant porosity, by:

$$[{}^{210}\text{Pb}_{\text{xs}}(z)] = [{}^{210}\text{Pb}_{\text{xs}}(0)]\exp(-\alpha z) \quad (4a)$$

$$\alpha = (\lambda/S) \quad (4b)$$

Where:

$[{}^{210}\text{Pb}_{\text{xs}}(z)]$ and $[{}^{210}\text{Pb}_{\text{xs}}(0)]$ represent excess ${}^{210}\text{Pb}$ concentration at depth z and at the sediment interface, respectively.

Because the year (1967) when the HoltraChem facility became operational, and also released the largest quantities of total Hg into the Penobscot River system is known, the profiles of total Hg can also be utilized as an additional chronological marker. As such, sediment accumulation rates have also been determined via equation (1), using total Hg profiles and $t = (2009-1967) = 42 \text{ y}$.

3.5 Supplemental Mapping

In order to both visualize and calculate the distribution of net depositional areas throughout the study system, and approximate the total quantities of total Hg stored in sediments from these areas, supplemental mapping was completed in cooperation with Mr. Ruben So at ENVIRON. The first of these maps delineates those parts of the study system which are most likely to be net depositional, versus those which are either non-depositional or which only transiently store sediments for time periods shorter than the period since maximum total Hg releases (~ 1967). To accomplish this, polygons denoting likely net depositional areas throughout the study system were created in Google Earth, utilizing the most recently acquired aerial imagery. These areas were denoted based on several sources of information, which included (1) surface sediment

size/type classifications provided by the WHOI research team; (2) surface sediment size classifications provided by the sediment core analysis described in this report; (3) National Oceanic and Atmospheric Administration (NOAA's) estuarine bathymetry compilation data for Penobscot Bay [http://estuarinebathymetry.noaa.gov/bathy_htmls/N050.html] (that clearly show large-scale sedimentary bedforms which were particularly useful for the combined Fort Point Cove and lower estuary area); and (4) field observations. These polygon data were then incorporated into a GIS to both produce the final maps, and to allow for area-based quantifications to be completed.

A second, kriged map was produced to illustrate the relative amounts of total, sedimentary Hg stored in different parts of the system. This was accomplished by combining the map denoting net depositional areas with the sediment core sampling locations, and accompanying calculations of total Hg sedimentary inventories. To accomplish this, the study system was divided into eight manageable areas (four in the Penobscot River, one adjacent to Verona Island [PBR], one in the Orland River [OR], two in Mendall Marsh [MM], and one in the combined Fort Point Cove and lower estuary [ES]). In the GIS, the polygons for each of these areas were combined such that the only boundaries were those represented by actual hydrologic boundaries. A contour map was then produced using kriging to show the differences in total Hg storage in sediments throughout the system. By calculating the surface areas of each bin size (i.e., contoured interval) and assuming a median value for total sedimentary Hg inventory within that mapped area, approximate quantities of total sedimentary Hg were determined.

4 RESULTS

4.1 Objective 1: Sedimentary Inventories of Total Hg

Sedimentary inventories of total Hg (ng cm^{-2}) were calculated to 90 cm or the end of each core (EOC) using:

$$I_{\text{Hg}} = \Sigma[\text{sediment interval (cm)} \times (1 - \phi \times \rho_s) \times [\text{Hg}] (\text{ng g}^{-1})] \quad (5)$$

Where:

ϕ = porosity (%)

ρ_s = sediment grain density (g cm^{-3}) (see Appendix A).

Sedimentary inventories of total Hg in Penobscot River cores ranged from 112 to 1,504 mg m^{-2} (Figure 5-9), in Mendall Marsh cores inventories ranged from 18 to 1,031 mg m^{-2} (Figure. 5-10), in Orland River cores inventories ranged from 42 to 447 mg m^{-2} (Figure 5-11), and in combined Fort Point Cove and lower estuary cores inventories ranged from 42 to 305 mg m^{-2} (Figure 5-12). The long-term storage of total Hg in sediments is focused in those areas of net sediment deposition (Figure 5-13), which vary considerably from one part of the system to another (Table 5-1). Figure 5-14 shows that while elevated sedimentary inventories of total Hg are found throughout the system, particularly large quantities of total Hg are held in sediments of the Penobscot River both upstream and downstream of the HoltraChem site, of Mendall Marsh, and of the

Orland River. Table 5-1 lists the total sedimentary Hg associated with each mapped area (Figures 5-13 and 5-14), and the cumulative total (9.28 metric tons) falls well within the range of total Hg (6-12 metric tons) believed to have been released from the HoltraChem site.

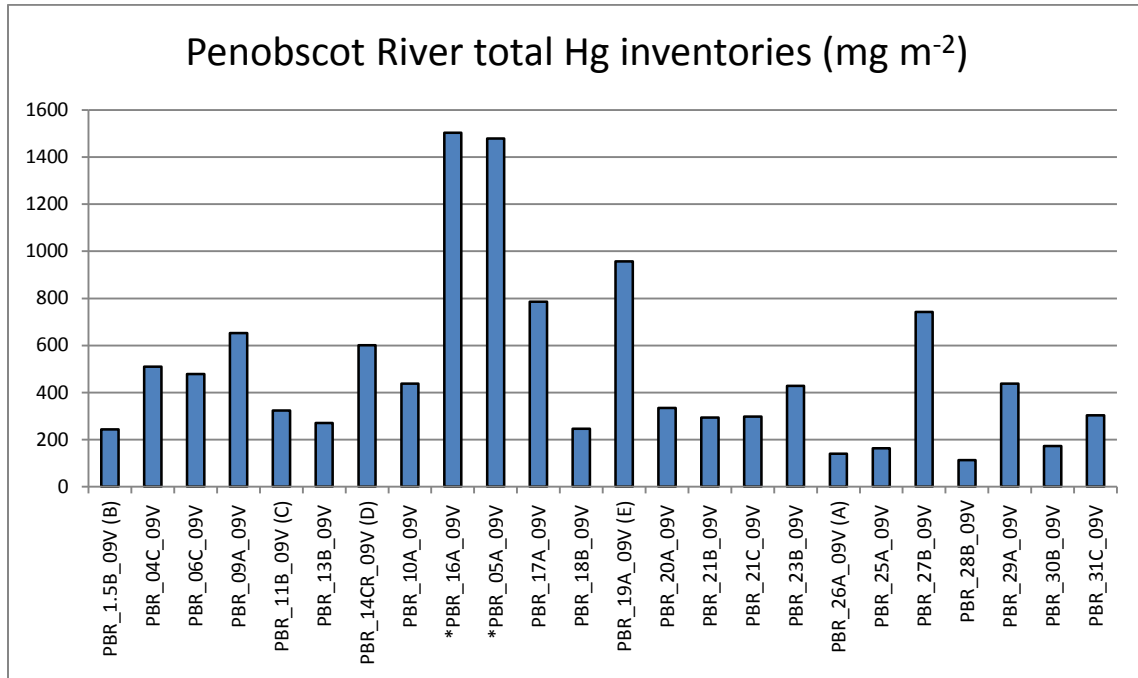


Figure 5-9. Sedimentary inventories of total Hg in Penobscot River cores, arrayed from left to right moving from north to south. *Stations located in Southerly Cove. Alphabetical notations for some stations represent EOC < 90 cm as follows, (A) = 77 cm, (B) = 89 cm, (C) = 63 cm, (D) = 54 cm, and (E) = 62 cm.

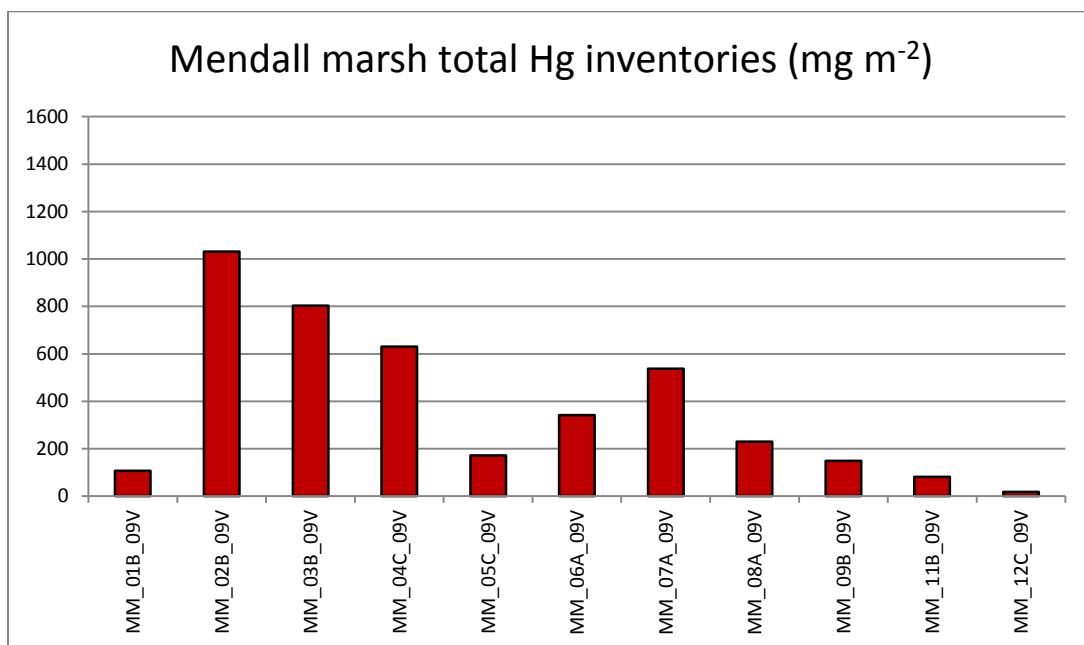


Figure 5-10. Sedimentary inventories of total Hg in Mendall Marsh cores, arrayed from left to right moving from upstream to downstream.

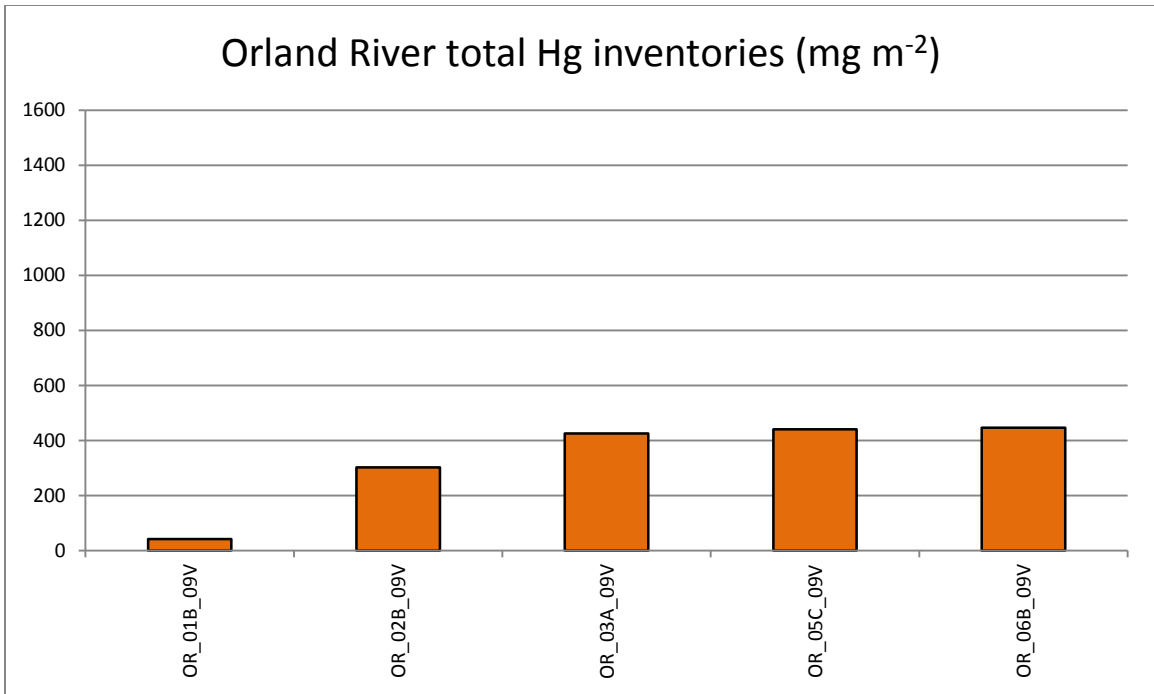


Figure 5-11. Sedimentary inventories of total Hg in Orland River cores, arrayed from left to right moving from upstream to downstream.

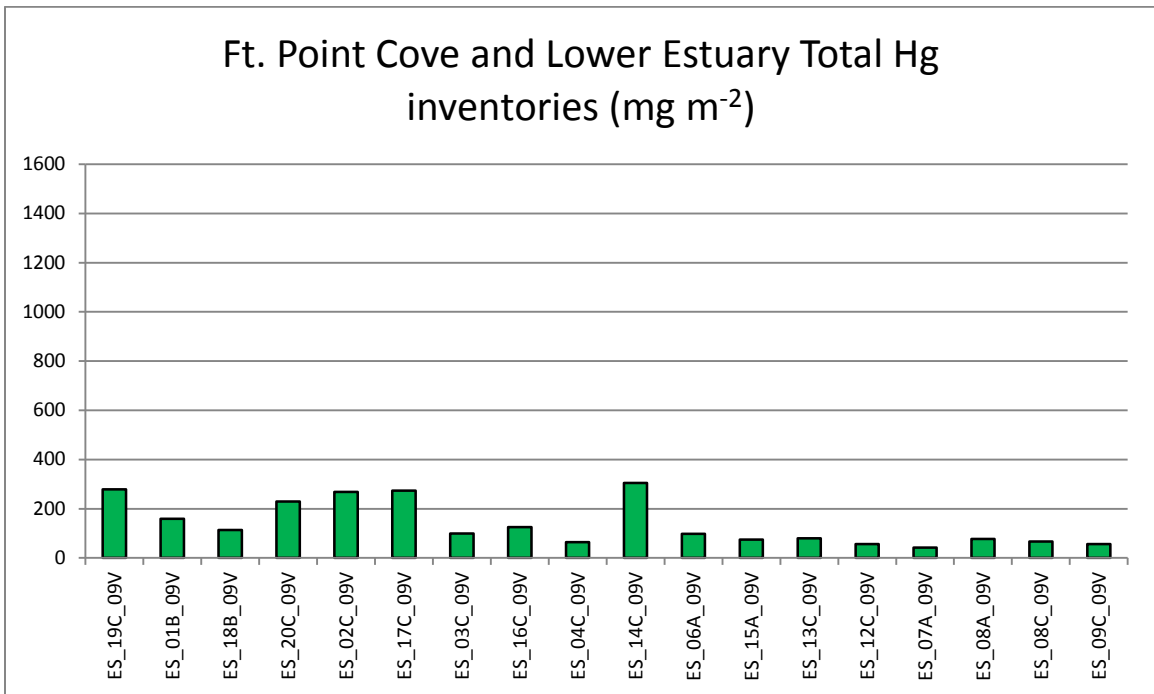


Figure 5-12. Sedimentary inventories of total Hg in combined Fort Point Cove and lower estuary cores, arrayed from left to right moving approximately from north to south.

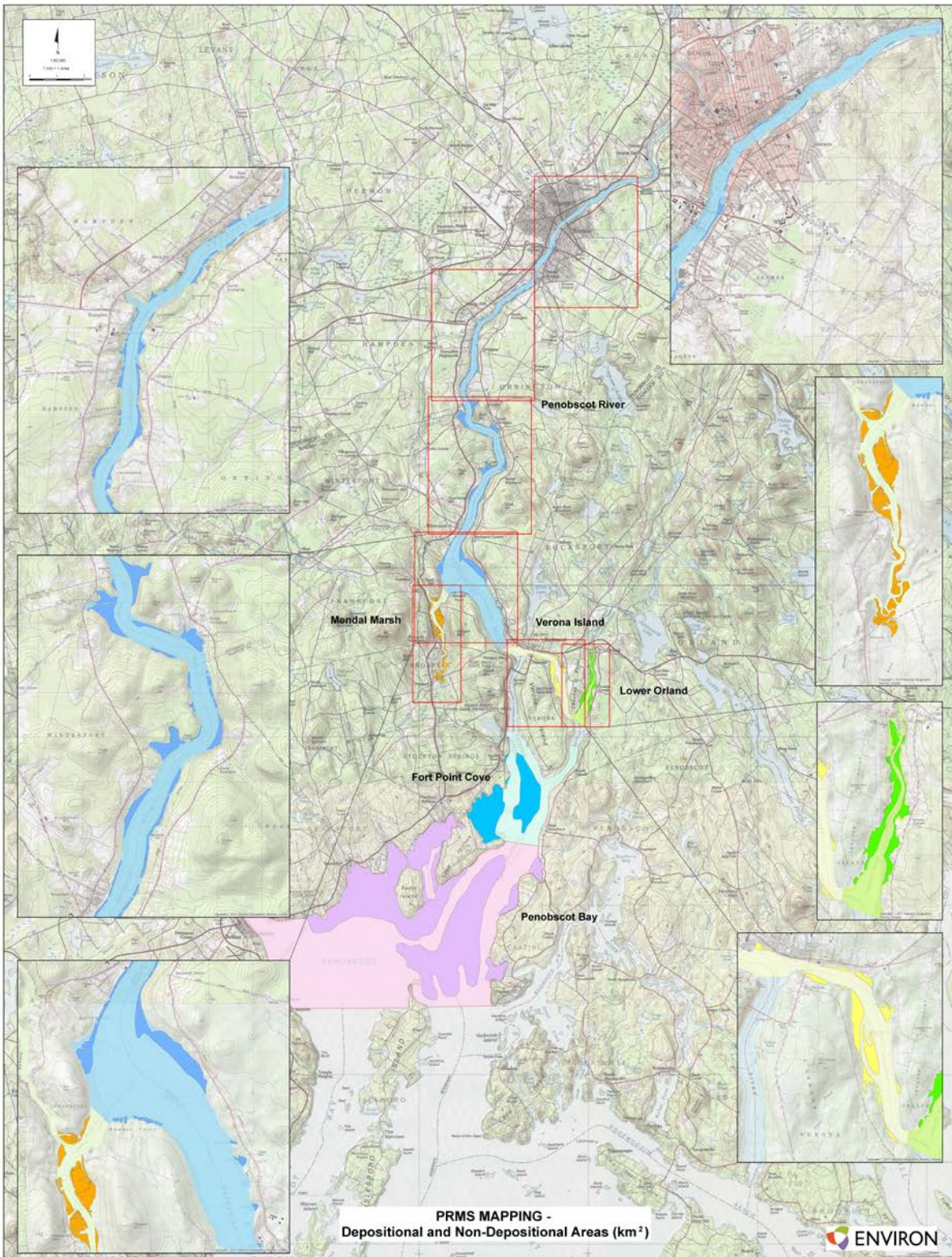


Figure 5-13. Net depositional (darker hues) and non-net depositional (lighter hues) areas of the study system, including the Penobscot River (dark blue), Mendall Marsh (orange), the Orland River (green), Verona Island (yellow), Fort Point Cove (light blue), and the lower estuary (pink).

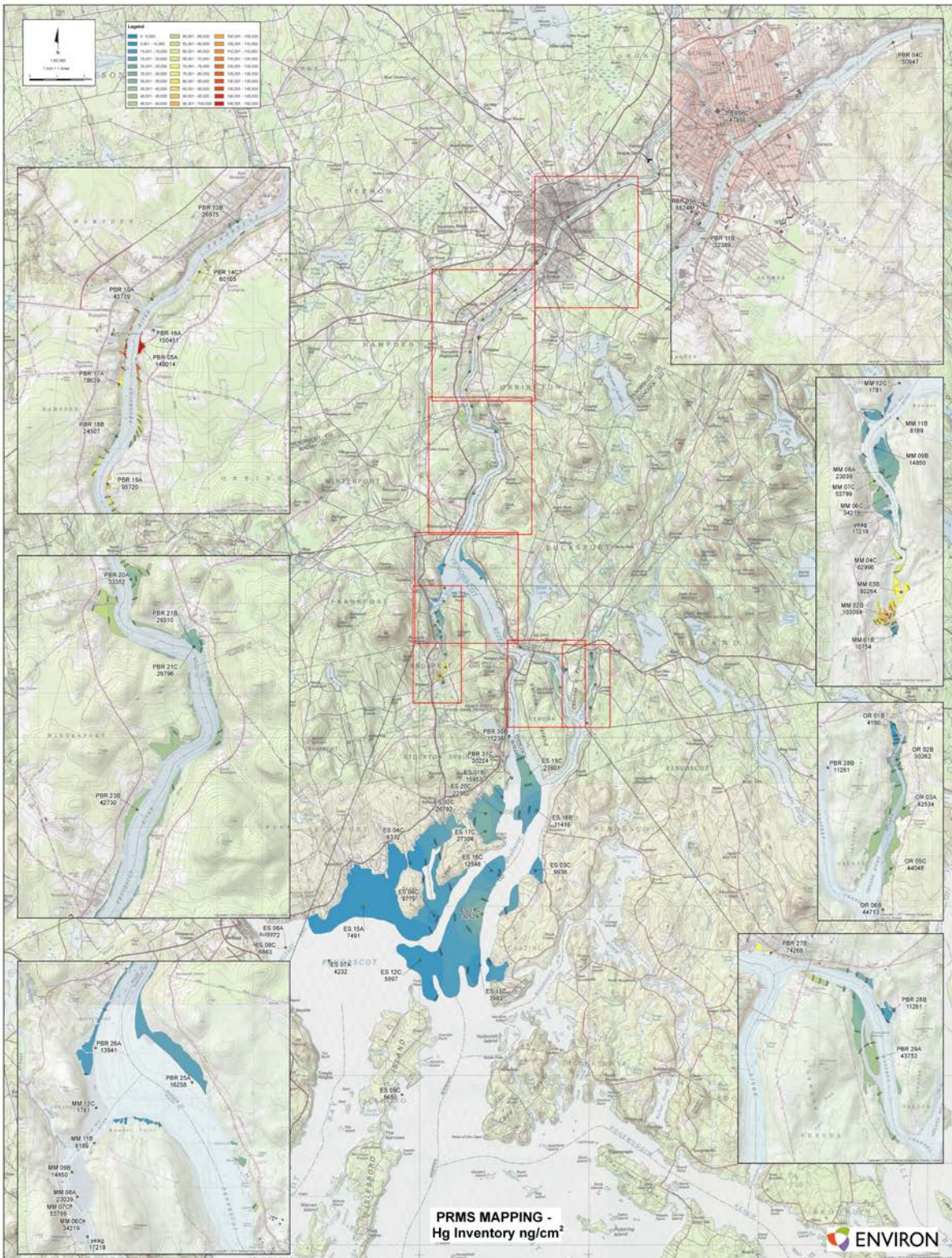


Figure 5-14. Simple contour map (kriging) showing the distributions of total sedimentary Hg inventories (ng cm⁻²) throughout the Penobscot system.

Table 5-1: Total mapped depositional areas (Figure 5-13) and corresponding total sedimentary Hg (Figure 5-14) associated with each.			
Area	Net depositional area (km²)	Total sedimentary Hg (metric tons)	Cumulative total sedimentary Hg (metric tons)
Penobscot River	2.90	1.09	1.09
Mendall marsh	1.14	0.47	1.56
Verona Island	0.80	0.30	1.86
Orland River	0.72	0.26	2.12
Combined Ft. Point Cove and lower estuary	53.61	7.16	9.28

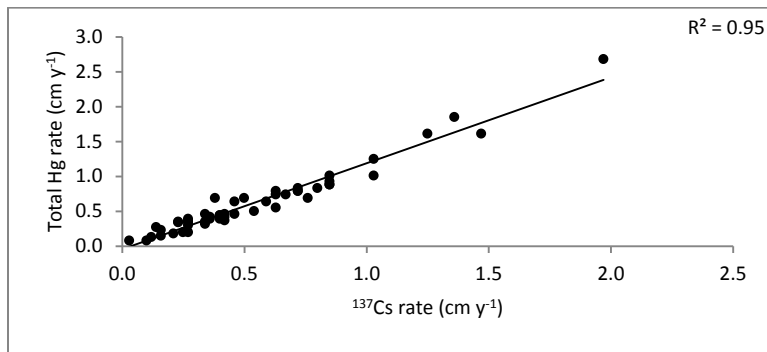
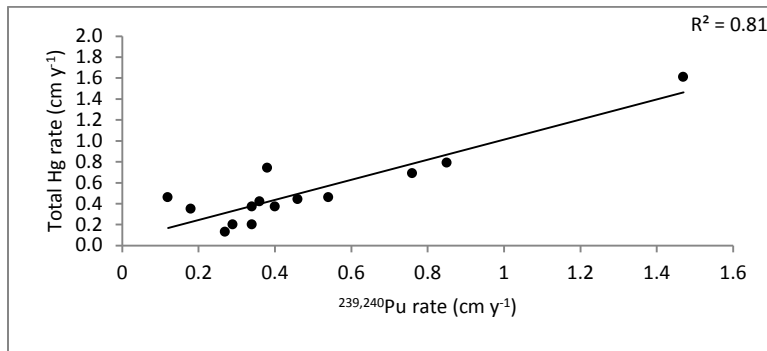
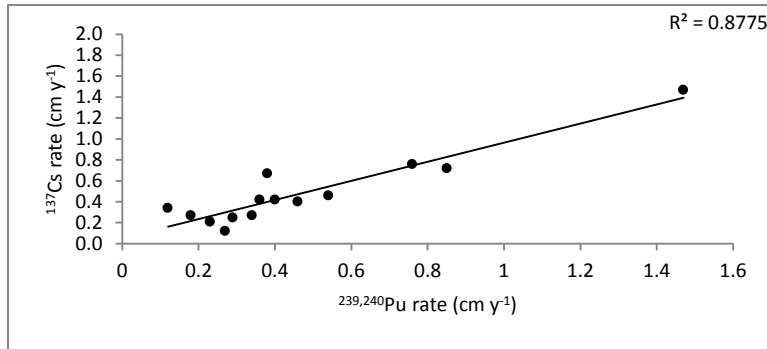
High concentrations of total Hg in near-surface (0-3 cm) sediments were also observed at stations located near to the HoltraChem facility and within Mendall Marsh, which is not surprising, given their proximity to HoltraChem and/or areas of high total Hg inventories. Relatively high total Hg concentrations in near-surface sediments throughout the Penobscot River, particularly in association with areas conducive to the accumulation of fine-grained sediments (Ft. Point Cove, tidal mudflats on eastern margin of Verona Island, Orland River) likely reflect the continued remobilization, transport and deposition of highly polluted sediments from up river. An alternative, or more likely complimentary, source of high total Hg sediments to these regions may include the re-working and erosion of tidal mudflat sediments via tidal fluctuations, bioturbation, and the development and lateral movement of shallow tidal channels (e.g., Bridges and Leeder 1976; Black 1999; Anderson et al. 2000; Kleinhans et al. 2009). These processes are focused at the large mudflats in the lower Penobscot and Orland Rivers, including the eastern margin of Verona Island.

4.2 Objective 2: Sediment Accumulation Rates

The determination of sediment accumulation rates must consider the effects of vertical mixing. Mixing can distort, broaden and/or displace the peaks of chronological markers, including the radionuclides and total Hg considered here (e.g., Santschi et al. 1999, 2001). Such effects can be estimated from ⁷Be (available only in cores from Mendall Marsh), peak broadening or profile irregularities of chronological markers, the uniformity of porosity profiles, and the down-core variability of mineral grain size distributions. These data suggest that while some degree of near-surface mixing was in evidence system-wide, as would be expected, significant and extensive mixing was limited to a sub-set of sediment cores collected from stations in the Penobscot River.

Overall, there was good agreement between the various radionuclides (¹³⁷Cs, ²¹⁰Pb, ^{239,240}Pu) and total Hg profiles in terms of derived sedimentation rates (Figure 5-15). Figures 5-16 to 5-19 depict sediment accumulation rates determined by radionuclides and total Hg for each of the four regions of the system. Tabular data are provided in

Appendix 5-1B. Unsurprisingly, given the range of physical and hydrological settings represented by these stations, a wide range in mean sedimentation rates was observed across the system (0.10 to 1.85 cm y⁻¹). Correlations between mean rates of sedimentation and total Hg inventories throughout the system clearly indicate that while some mobility of total Hg would be expected due to bioturbation and near-surface sediment resuspension/remobilization everywhere, extensive lateral transport of sediment, and therefore total Hg, appears to be limited to portions of the Penobscot River (Figure 5-20).



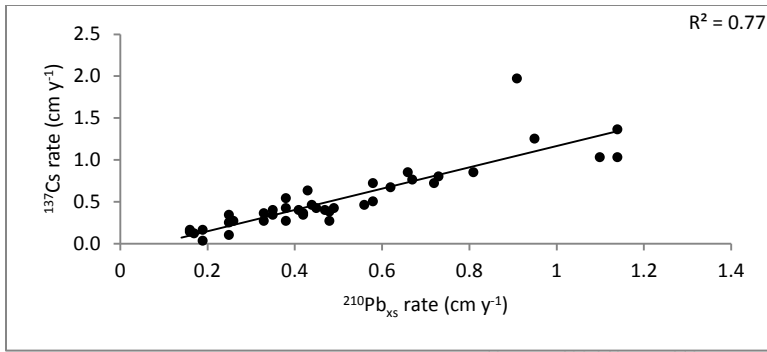


Figure 5-15. Comparisons of sedimentation rates derived by ^{137}Cs , $^{239,240}\text{Pu}$, $^{210}\text{Pb}_{\text{xs}}$ and total Hg show good agreement across the system, as indicated by simple linear regression fits.

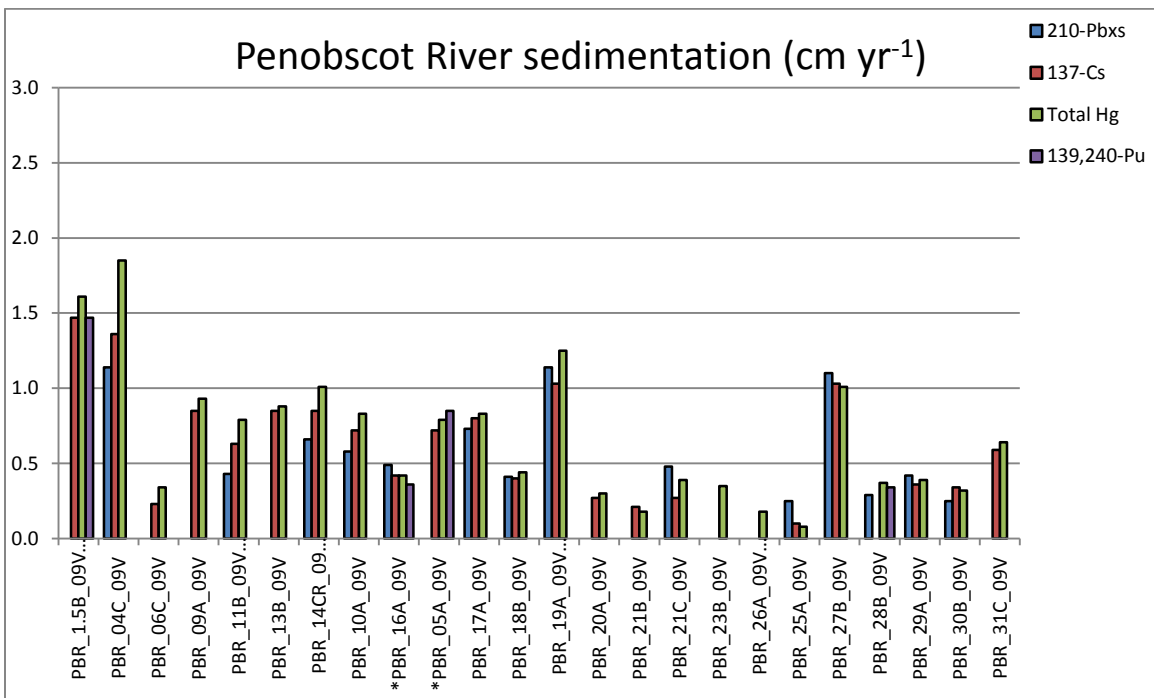


Figure 5-16. Sedimentation rates determined by radionuclides and total Hg at Penobscot River stations, arrayed from left to right moving from north to south.

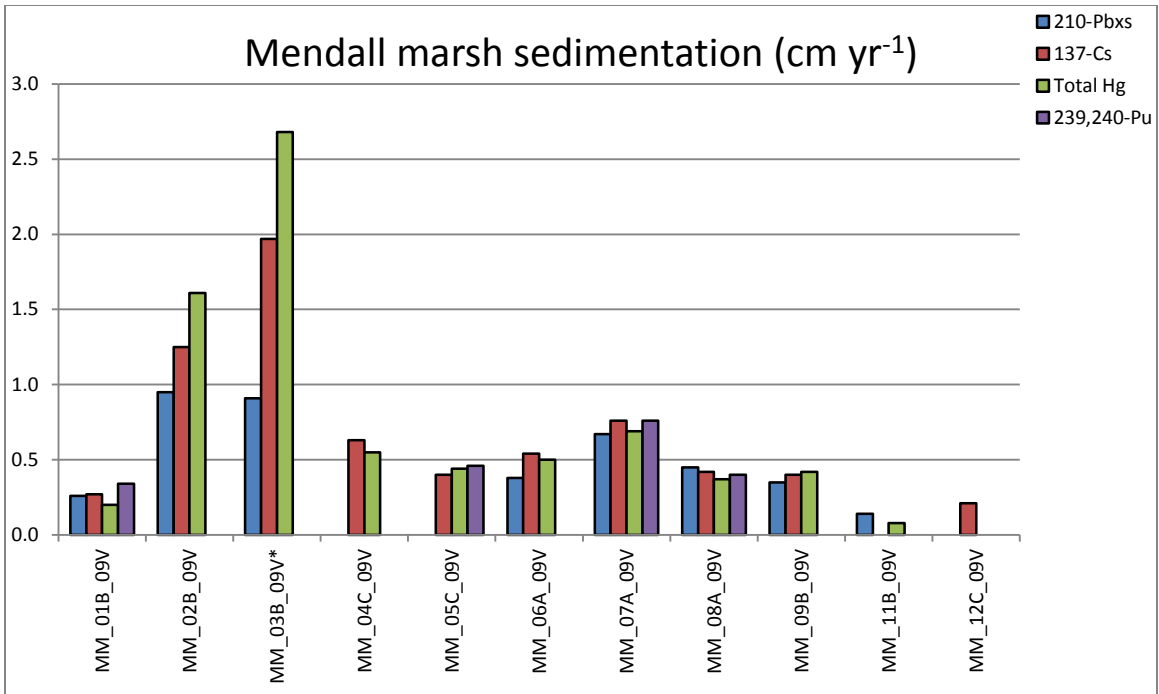


Figure 5-17. Sedimentation rates determined by radionuclides and total Hg at Mendall Marsh stations, arrayed from left to right moving from upstream to downstream.

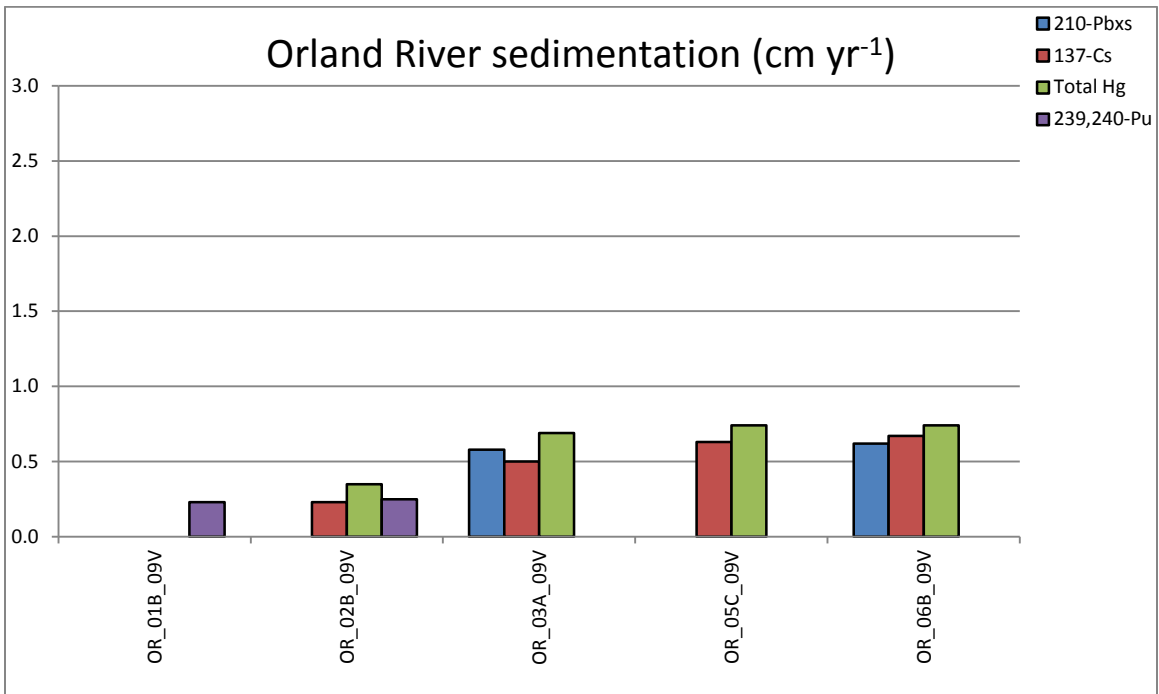


Figure 5-18. Sedimentation rates determined by radionuclides and total Hg at Orland River stations, arrayed from left to right moving from upstream to downstream.

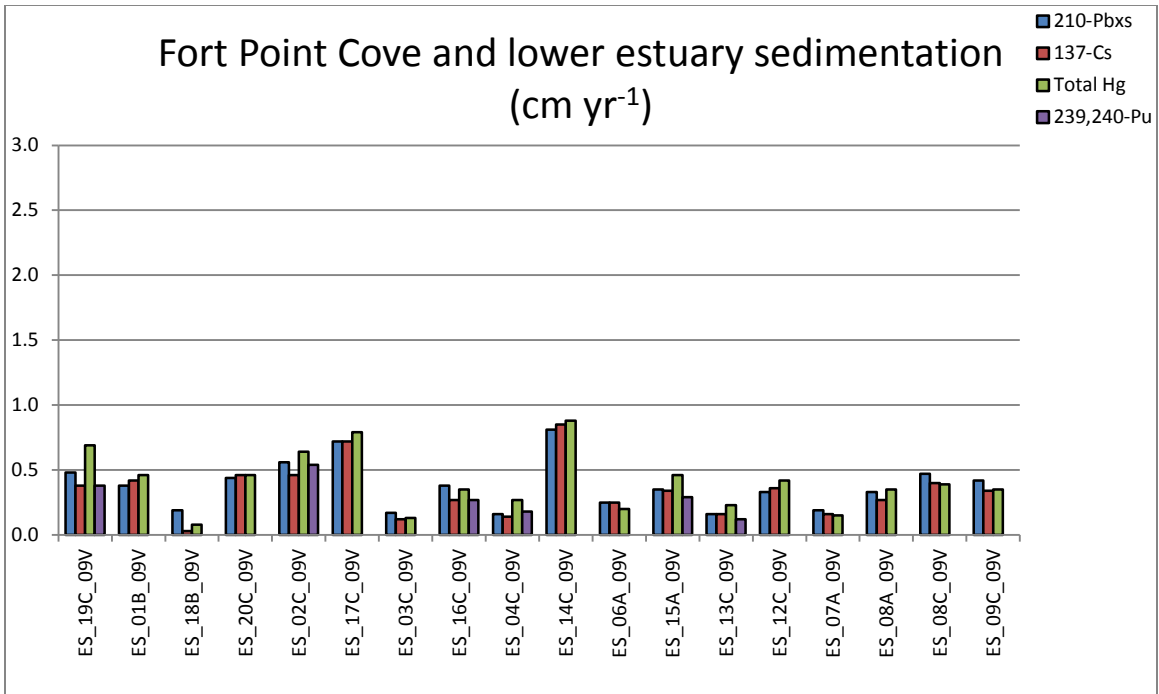
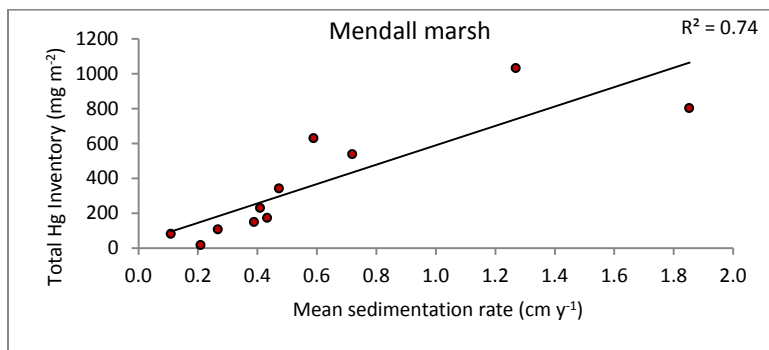
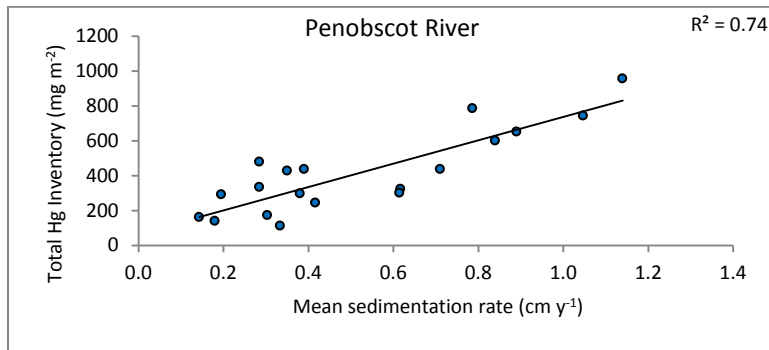


Figure 5-19. Sedimentation rates determined by radionuclides and total Hg at Fort Point Cove and lower estuary stations, arrayed from left to right moving approximately from north to south.



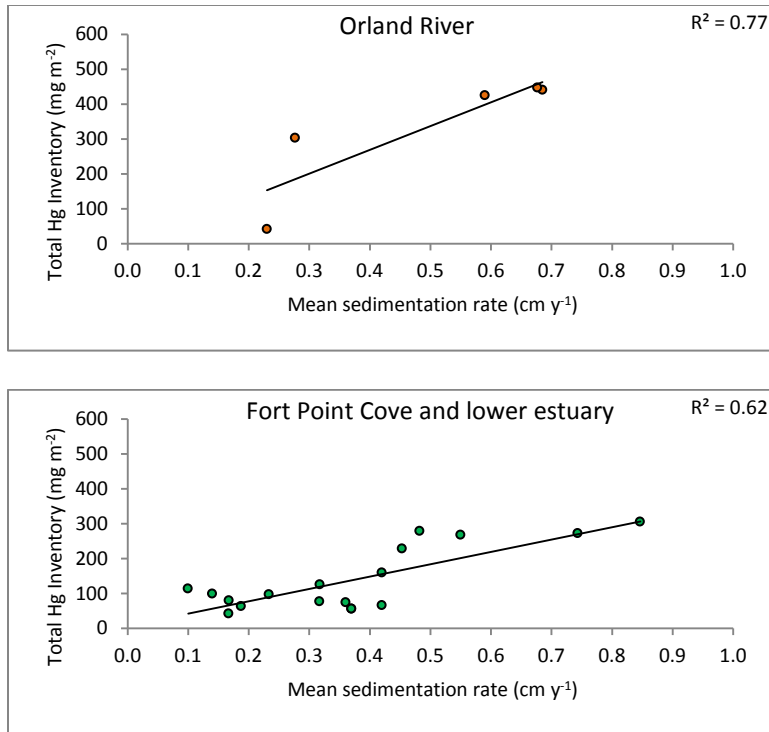


Figure 5-20. Simple linear regression correlations between mean sedimentation rates and total Hg inventories.

4.3 Objective 3: Contemporary Total Hg Fluxes

Estimates of contemporary total Hg fluxes ($\text{ng cm}^{-2} \text{y}^{-1}$) to bottom sediments are presented using the mean concentrations of total Hg (ng g^{-1}) in the upper 3 cm of sediment cores multiplied by the mean mass accumulation rates (MAR) ($\text{g cm}^{-2} \text{y}^{-1}$). Figures 5-21 to 5-24 show contemporary total Hg fluxes for each of the four regions of the system.

4.4 Objective 4: Comparison of Replicate Cores

In an effort to assess the degree of variability in the sampled environments, in terms of total Hg delivery and inventories, sediment accumulation rates and physical properties, two stations were selected for replicate core analysis. The stations chosen for replicate analysis were located in highly contrasting parts of the system, one station was located on an intertidal mudflat in the Penobscot River (PBR_21_09V, cores B and C), and the other was located in the Penobscot Estuary at a water depth of 13 m at sampling (ES_08_09V, cores A and C). At both stations, efforts were made to collect each of the three cores as close to one another as was feasible, generally within a 5 m radius. Both cores from the Penobscot River were generally comprised of a minority ($\leq 10\%$) of clay size sediments, with considerably more sand (15-60%) and silt (40-80%) size sediments (Figure 5-26). Poor correlations between grain size fractions down-core indicates differences in the distributions of grain size between cores. This difference down-core in the Penobscot River cores is also reflected in the poor correlation of porosity between them (Figure 5-27). Both cores from the Penobscot Estuary were generally comprised

of a minority ($\leq 20\%$) of clay size sediments, with slightly more sand (20% to 30%) size sediment, and were dominantly comprised of silt (65% to 90%) size sediment (Figure 5-28). Much stronger correlations between grain size fractions down-core, particularly for clay and silt, indicate more uniformity in the distributions of grain size between these cores. This uniformity down-core in the Penobscot Estuary cores is also reflected in the stronger correlation of porosity between them (Figure. 5-27).

Table 5-2 lists several key variables, and their differences, between each set of replicate cores. Appreciable differences are in evidence between both sets of replicate cores, particularly with respect to inventories of the fallout radionuclides ^{137}Cs and ^{210}Pb , and sedimentation rates derived by them and by total Hg (PBR-range of differences 25% to 82%; ES-range of differences 0% to 59%). In terms of the objectives of this study, the most important of these variables are the inventories of total Hg and the mean sedimentation rates. These variables show generally lower differences for both sets of replicate cores (Table 5-2), at 2% and 62% respectively for the Penobscot River cores, and at 15% and 27% respectively for the Penobscot Estuary cores.

5 DISCUSSION

The data set as a whole indicates that total Hg was rapidly distributed and deposited throughout the study system, and that with the exception of certain areas within the Penobscot River, there is limited evidence of considerable remobilization or mixing. This is further supported by the identification of 58 of 72 coring stations (81%) which exhibited elevated and/or relatively uniform profiles of total Hg. However, while the transport and deposition of total Hg during the period of its continual release from HoltraChem was likely dominantly controlled by its association with fine-grained sediments and POC (e.g., Gagnon et al. 1997; Benoit et al. 1998; Yu et al. 2012), evidence indicates that since the releases of total Hg from HoltraChem ceased, lateral transport processes have and are playing an important role in its continued distribution throughout the study system.

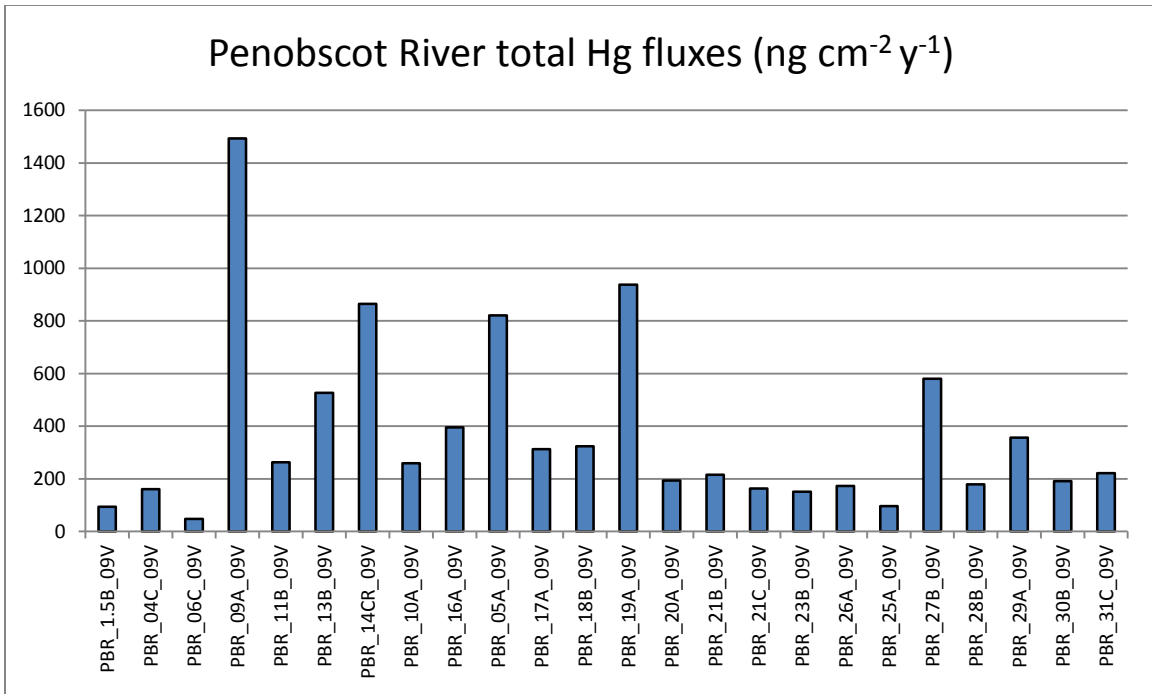


Figure 5-21. Contemporary total Hg fluxes at Penobscot River stations, arrayed from left to right moving from north to south.

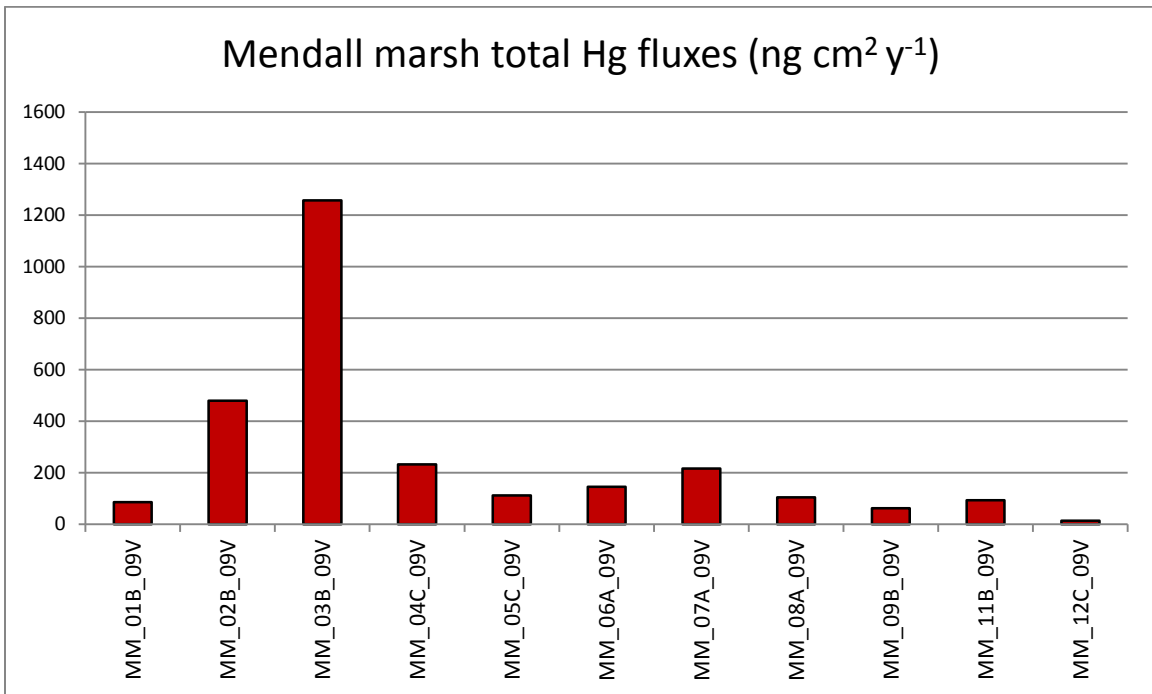


Figure 5-22. Contemporary total Hg fluxes at Mendall Marsh stations, arrayed from left to right moving from upstream to downstream.

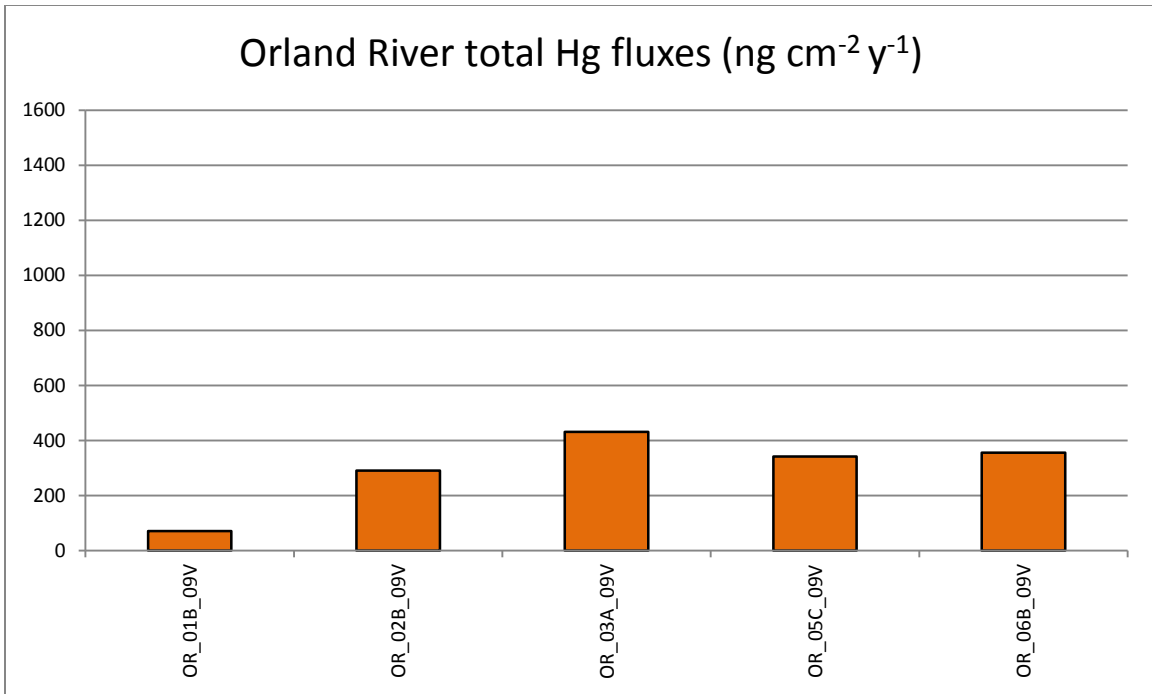


Figure 5-23. Contemporary total Hg fluxes at Orland River stations, arrayed from left to right moving from upstream to downstream.

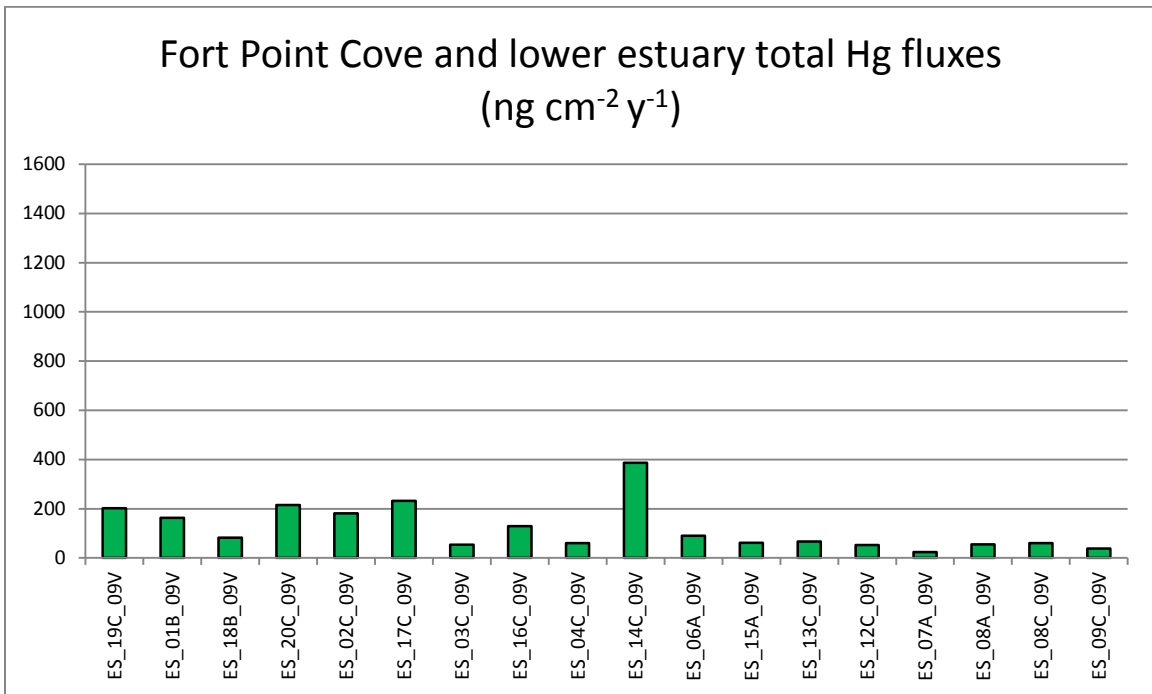


Figure 5-24. Contemporary total Hg fluxes at Fort Point Cove and lower estuary stations, arrayed from left to right moving approximately from north to south.

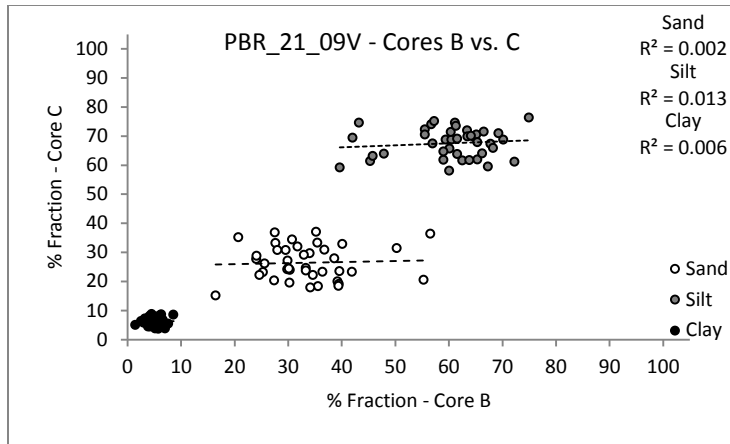


Figure 5-26. Comparison and simple linear regression correlations of major grain size classes (sand, silt, clay) and their distributions between Penobscot River replicate cores PBR_21_09V B and C.

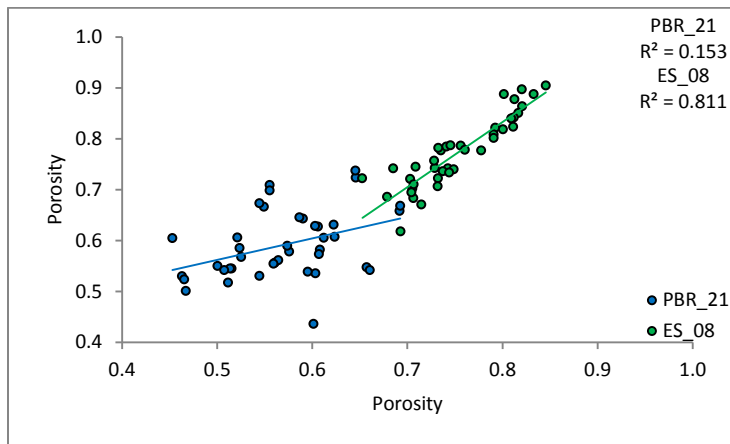


Figure 5-27. Comparison and simple linear regression correlations of porosity and its distributions between Penobscot River and Penobscot Estuary replicate cores.

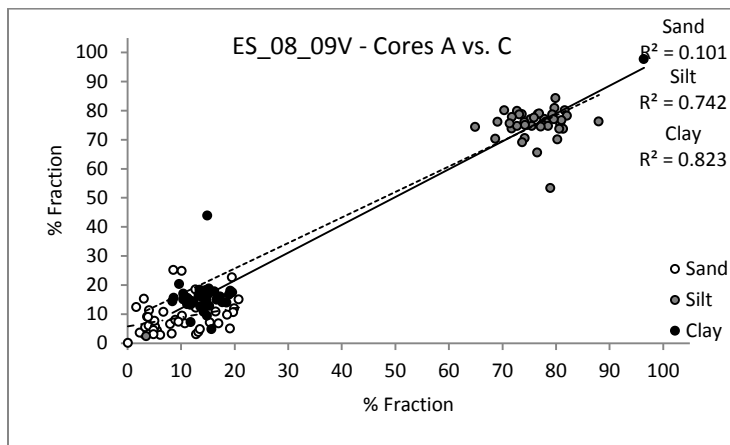


Figure 5-28. Comparison and simple linear regression correlations of major grain size classes (sand, silt, clay) and their distributions between Penobscot Estuary replicate cores ES_08_09V A and C.

Table 5-2: Comparison of key parameters in replicate cores from stations PBR_21_09V and ES_08_09V.

Station	Total Hg inventory (ng cm ⁻²)	²¹⁰ Pbxs inventory (Bq cm ⁻²)	¹³⁷ Cs inventory (Bq cm ⁻²)	²¹⁰ Pbxs rate (cm y ⁻¹)	¹³⁷ Cs rate (cm y ⁻¹)	Total Hg rate (cm y ⁻¹)	Mean rate (cm y ⁻¹)
PBR_21B_09V	29,310	0.63	0.11	--	0.21	0.18	0.20
PBR_21C_09V	29,796	0.26	0.17	0.48	0.27	0.39	0.38
% Difference	2	82	43	--	25	72	62
ES_08A_09V	7,772	0.63	0.04	0.33	0.27	0.35	0.32
ES_08C_09V	6,663	0.34	0.04	0.47	0.40	0.39	0.42
% Difference	15	59	0	35	38	11	27

The sedimentary inventories of total Hg can indicate which parts of the system have been receiving elevated concentrations of total Hg over time. In order to generate a realistic comparison, if one were to assume that the grain density of all sediments were 2.5 g cm⁻³, that porosity was constant down-core at 0.70 and the concentration of total Hg on sediments was either consistently at background (100 ng g⁻¹) or “elevated” (300 ng g⁻¹) concentrations, these conditions would generate total Hg inventories over the 90 cm represented by the majority of sediment cores collected at 68 and 270 mg of total Hg per m², respectively. If then, “highly elevated” were to correspond to twice the total Hg inventories of the “elevated” scenario, stations with inventories above 540 mg m⁻² would be “highly elevated”. Based on this reasoning, 17/24 (71%) Penobscot River stations have “elevated”, and 7/24 (29%) have “highly elevated” total Hg inventories; 5/11 (45%) Mendall Marsh stations have “elevated”, and 3/11 (27%) have “highly elevated” total Hg inventories; 4/5 (80%) Orland River stations have “elevated”, and none have “highly elevated” total Hg inventories; and 3/18 (17%) Fort Point Cove and lower Estuary stations have “elevated” total Hg inventories, with no stations having “highly elevated” total Hg inventories (see Figures 5-9 to 5-12, 5-14). Most of those stations identified in the above scenario as “highly elevated” are located within 7-8 km upstream and downstream of the HoltraChem facility, in Mendall Marsh, in the lower Penobscot River to the north and east of Verona Island, and in the lower Orland River. The distribution of mean, near-surface (upper 3 cm) total Hg concentrations, however, clearly indicates that total Hg is being spread throughout the system, both beyond and between those locations that show elevated and highly elevated total Hg inventories.

The utilization of a range of physical properties (porosity, grain size distribution), radionuclide profiles (⁷Be, ¹³⁷Cs, ²¹⁰Pb_{xs}, ^{239,240}Pu), and total Hg profiles allowed for

robust, quantitative assessments of the depths of sediment mixing and sediment accumulation rates to be made throughout the system (Figures 5-16 to 5-19). Overall, the methods utilized to assess sediment accumulation rates agree well (Figure 5-15), and since at most stations, evidence for significant vertical mixing was restricted to the upper few cm, historic input rates of both radionuclides and total Hg are only minimally distorted. However, many stations exhibit uneven or irregular tracer profiles which likely reflect lateral inputs of sediments and associated tracers over time. In addition to their importance in quantifying the likely rates of “recovery” in terms of total Hg contamination throughout the study system, sedimentation rates in conjunction with mean total Hg concentrations in near-surface sediments can be used to estimate contemporary fluxes of total Hg to bottom sediments throughout the system (Figures 5-21 to 5-25). Mean, near-surface (upper 3 cm) total Hg concentrations are greatest in the Orland River (OR, 1,120 ng g⁻¹), followed by the Penobscot River (PBR, 815 ng g⁻¹), then Mendall Marsh (MM, 673 ng g⁻¹), and finally Fort Point Cove and the lower estuary (ES, 526 ng g⁻¹). The very high near-surface total Hg concentrations in the mudflats of the Orland River are surprising, given their distance from the HoltraChem facility. This is likely due to a combination of processes, including sediment focusing, lateral transport, and mudflat tidal channel erosion and migration. If one were to utilize the previous discussions values for “elevated” (300 ng g⁻¹) and “highly elevated” (600 ng g⁻¹) total Hg concentrations, near-surface sediments in the Orland River, Penobscot River and Mendall Marsh would all be classified as “highly elevated”, while those in Fort Point Cove and the lower estuary would be classified as “elevated”, on average. Mean, contemporary total Hg fluxes to bottom sediments are greatest in the Penobscot River (PBR, 376 ng cm⁻² y⁻¹), followed by the Orland River (OR, 298 ng cm⁻² y⁻¹), then Mendall Marsh (MM, 255 ng cm⁻² y⁻¹), and finally Fort Point Cove and the lower estuary (ES, 120 ng cm⁻² y⁻¹).

Unsurprisingly, the degree of spatial variability as assessed via the physical, geochemical and radiochemical analyses of replicate sediment cores at two stations (PBR_21_09V, and ES_08_09V) was appreciable. In terms of physical similarity, the Penobscot Estuary replicate cores were demonstrably more similar in terms of quantities and distributions of sediment mineral size classes and porosity, than the Penobscot River replicate cores (Figures 5-26 to 5-28). However, both sets of replicate cores exhibited significant differences in terms of both geochemical (total Hg) and radiochemical (¹³⁷Cs, ²¹⁰Pb) parameters (Table 5-2). However, the most important parameters in terms of the present study (total Hg inventories, mean sediment accumulation rates) differed less significantly (Table 5-2).

6 CONCLUSIONS

1. Total Hg was rapidly distributed and deposited throughout the system, and except for parts of the Penobscot River, there is limited evidence of considerable vertical mixing. This is supported by physical (porosity, grain size), geochemical (total Hg profiles) and radiochemical (⁷Be, ¹³⁷Cs, ²¹⁰Pb_{xs} and ^{239,240}Pu profiles) data and the identification of 58 of 72 coring stations (81%) which exhibited elevated and/or relatively uniform profiles of total Hg.

2. Based on comparison to hypothetical “elevated” (270 mg m^{-2}) and “highly elevated” (540 mg m^{-2}) total Hg inventories, Penobscot River stations are 71% “elevated” and 29% “highly elevated”; Mendall Marsh stations are 45% “elevated” and 27% “highly elevated”; Orland River stations are 80% “elevated” only; and Fort Point Cove and lower estuary stations are 17% “elevated” only.
3. Differences between distributions of total Hg inventories, near-surface (upper 3 cm) total Hg concentrations, and contemporary total Hg fluxes to bottom sediments clearly show that total Hg is being redistributed throughout the system, both beyond and between locations with large total Hg inventories. Those parts of the system which appear to be the primary recipients of this redistribution include the Penobscot River between 7-8 km upstream and downstream of the HoltraChem facility, Mendall Marsh, the lower Penobscot River to the north and east of Verona Island, and the lower Orland River.
4. Except for those Penobscot River stations that exhibit evidence of considerable vertical mixing, the data indicate an active, near-surface mixed interval on the order of 3 cm, system-wide. Mean, near-surface total Hg concentrations within this interval are greatest in the Orland River (OR, $1,120 \text{ ng g}^{-1}$), followed by the Penobscot River (PBR, 815 ng g^{-1}), then Mendall Marsh (MM, 673 ng g^{-1}), and finally Fort Point Cove and the lower estuary (ES, 526 ng g^{-1}).

7 RECOMMENDATIONS

1. Quantification of the role of tidal mudflat sediment erosion/re-distribution in the sourcing of total Hg is warranted. Extensive quantities of fine-grained sediment are stored along channel banks in this system, particularly in Mendall Marsh, the Orland River, the eastern margin of Verona Island and throughout the lower Penobscot River. Some of these deposits have not been sampled by sediment coring (Mendall Marsh), and those which have been indicate that these sediments are often storing very large quantities of total Hg. Total Hg concentrations in near surface sediments, and estimates of contemporary total Hg fluxes clearly show that total Hg continues to be delivered to portions of the system, long after the cessation of Hg releases from HoltraChem. The prospectively important role that these deposits play in this supply warrants further investigation.
2. Quantification of spatial gradients in total Hg storage across the marsh platform in Mendall Marsh is warranted. Disparities in surface total Hg concentrations and total Hg inventory comparisons over shallow depths ($\sim 10 \text{ cm}$) between those deep cores presented here (collected immediately distal of the natural levee on the marsh platform in Mendall Marsh) and samples and very short cores collected as part of the work of the Gilmour research group (many samples collected well into the interior of the marsh platform) strongly indicate a spatial gradient in total Hg distributions across the marsh platform. This is most likely a function of both the distance from the primary total Hg source (the marsh river), as well as the difference in the quantity and type of sedimentary organic matter being deposited across the marsh platform. Since these spatial gradients are

important in terms of recommendations for sediment removal or remediation, including the type, frequency and distribution of remedial action, the quantification of these spatial gradients is warranted.

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APPENDIX 5-1A

Physical Variables Reported (in report, appendices or supporting spreadsheets):

- (1) Sediment dry bulk density (B_d) – g/cm^3 : Determined using a slight modification of the core method (Dane *et al.*, 2002), by $B_d = \text{mass of dry solids (g)}/\text{total volume (cm}^3\text{)}$
- (2) Sediment fraction of water (f_w): Determined by $f_w = [(\text{sediment wet mass (g)}/\text{sediment dry mass (g)})/\text{sediment wet mass (g)}]$
- (3) Sediment fraction of organic matter (f_{om}) - %: Determined by $f_{om} = [2 \times \% \text{ POC}]$
- (4) Sediment grain density (ρ_s) – g/cm^3 : An initial value of $2.50 \text{ g}/\text{cm}^3$ is assumed, reflecting a mix of dominantly silicate minerals, and is modified where possible by considering the fraction of sedimentary organic matter (when available) by: $\rho_s = [(1.70 \text{ g}/\text{cm}^3 \times f_{om}) + (2.50 \times (100 - f_{om}))/100]$
- (5) Sediment porosity (ϕ) - %: Determined by also considering the fraction of sedimentary organic matter (when available) by: $\phi = [(f_w / (f_w + (1 - f_w) \rho_s))]$
- (6) Sediment mass depth – g/cm^2 : Determined by $[(1 - \phi) \times \rho_s \times \text{interval thickness (cm)}]$
- (7) Sediment cumulative mass depth – g/cm^2 : Determined as the sum of mass depths over depth
- (8) Fractions of sand, silt and clay – %: Size classes of mineral sediment corresponding to the Wentworth scale, sand (2 mm – 62.5 μm), silt (62.5 μm – 4 μm) and clay (< 4 μm) (Wentworth, 1922)

Table 5-1A1: Summary physical data for sediment core MM_01B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.78	0.30	0.49	--	3.27	83.83	12.90	16.46
1-2	0.77	0.30	0.83	--	3.76	84.02	12.22	15.30
2-3	0.85	0.36	1.29	--	0.90	86.58	12.52	14.68
3-4	0.79	0.36	1.77	--	0.84	87.06	12.10	14.50
4-5	0.80	0.29	2.33	--	1.81	85.82	12.37	15.26
5-6	0.80	0.29	2.78	--	1.27	80.83	17.90	16.64
6-7	0.79	0.39	3.27	--	1.43	82.65	15.92	14.24
7-8	0.79	0.39	3.77	--	2.52	83.28	14.20	12.45
8-9	0.75	0.38	4.29	--	6.56	79.56	13.88	9.96
9-10	0.76	0.38	4.83	--	1.04	82.13	16.83	11.34
10-11	0.76	0.34	5.40	--	1.59	82.86	15.55	6.92
11-12	0.78	0.34	5.98	--	0.39	85.81	13.80	12.99
12-13	0.88	0.34	6.65	--	6.53	80.46	13.01	9.19
13-14	0.86	0.34	7.25	--	1.84	87.44	10.72	12.25
14-15	0.87	0.38	7.87	--	3.76	85.49	10.75	12.13
15-16	0.88	0.38	8.51	--	0.58	89.71	9.71	14.03
16-17	0.86	0.29	9.18	--	2.99	82.03	14.98	15.09
17-18	0.87	0.29	9.89	--	8.05	81.08	10.87	16.39
18-19	0.87	0.29	10.58	--	1.93	88.15	9.92	17.08
19-20	0.86	0.29	11.14	--	0.64	86.59	12.77	15.93
20-22	0.84	0.41	12.61	--	0.64	86.18	13.18	12.40
22-24	0.82	0.42	14.09	--	1.64	86.35	12.01	9.79
24-26	0.81	0.43	18.74	--	4.17	84.10	11.73	10.80
26-28	0.80	0.40	23.42	--	1.17	84.42	14.41	10.13
28-30	0.79	0.47	28.09	--	7.37	79.61	13.02	10.37
30-32	0.78	0.44	32.82	--	7.05	78.04	14.91	8.35
32-34	0.78	0.52	37.58	--	3.14	82.41	14.45	7.54
34-36	0.77	0.53	42.33	--	5.29	81.61	13.10	7.78
36-38	0.76	0.58	47.11	--	2.59	89.60	7.81	6.75
38-40	0.74	0.61	51.88	--	4.42	85.95	9.63	7.27
40-45	0.72	0.67	63.90	--	5.36	84.26	10.38	6.07
45-50	0.74	0.58	75.75	--	6.50	80.18	13.32	8.06
50-55	0.73	0.65	87.60	--	5.64	82.77	11.59	8.13
55-60	0.72	0.57	99.45	--	8.49	79.96	11.55	8.18
60-65	0.70	0.64	111.46	--	5.88	82.21	11.91	6.10
65-70	0.68	0.72	123.50	--	2.72	86.64	10.64	5.73
70-75	0.69	0.69	135.49	--	8.35	81.47	10.18	6.43
75-80	0.75	0.62	147.39	--	6.82	83.23	9.95	7.39
80-85	0.68	0.62	159.50	--	3.89	86.09	10.02	4.93
85-90	0.68	0.70	171.55	--	3.09	86.91	10.00	5.61

Table 5-1A2: Summary physical data for sediment core MM_02B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.79	0.48	0.52	--	2.01	89.23	8.76	--
1-2	0.82	0.48	0.96	--	2.28	88.56	9.16	--
2-3	0.78	0.51	1.48	--	0.49	88.80	10.71	6.39
3-4	0.80	0.51	1.99	--	0.43	90.24	9.33	--
4-5	0.80	0.48	2.46	--	2.67	90.03	7.30	6.78
5-6	0.81	0.48	2.92	--	11.51	81.36	7.13	7.33
6-7	0.82	0.50	3.37	--	2.74	88.59	8.67	--
7-8	0.77	0.50	3.95	--	4.09	86.25	9.66	--
8-9	0.78	0.52	4.51	--	1.14	88.78	10.08	--
9-10	0.77	0.52	5.07	--	1.04	87.70	11.26	--
10-11	0.77	0.55	5.64	--	2.69	85.94	11.37	--
11-12	0.75	0.55	6.24	--	2.40	88.62	8.98	6.89
12-13	0.78	0.56	6.80	--	3.63	86.62	9.75	--
13-14	0.78	0.56	7.36	--	5.15	88.22	6.63	--
14-15	0.76	0.53	7.93	--	6.18	83.42	10.40	7.62
15-16	0.75	0.53	8.54	--	2.85	88.13	9.02	7.26
16-17	0.76	0.61	9.14	--	3.63	85.87	10.50	--
17-18	0.76	0.61	9.73	--	1.71	90.18	8.11	--
18-19	0.75	0.60	10.36	--	1.96	91.31	6.73	--
19-20	0.77	0.60	10.93	--	6.74	82.01	11.25	--
20-22	0.74	0.59	12.18	--	4.52	86.21	9.27	7.51
22-24	0.76	0.56	13.38	--	7.58	83.86	8.56	--
24-26	0.77	0.54	14.52	--	4.22	86.95	8.83	--
26-28	0.74	0.61	15.82	--	5.16	84.43	10.41	--
28-30	0.73	0.64	17.18	--	6.00	84.24	9.75	--
30-32	0.76	0.68	18.40	--	7.63	82.16	10.21	--
32-34	0.76	0.62	19.62	--	4.43	86.97	8.60	--
34-36	0.78	0.64	20.70	--	5.32	84.93	9.75	--
36-38	0.83	0.56	21.53	--	8.20	80.51	11.29	--
38-40	0.77	0.49	22.66	--	8.42	83.83	7.75	--
40-45	0.74	0.60	25.89	--	7.09	80.60	12.31	--
45-50	0.77	0.61	28.71	--	4.91	83.05	12.04	--
50-55	0.78	0.56	31.48	--	6.61	80.14	13.25	--
55-60	0.82	0.51	33.72	--	5.00	81.48	13.52	--
60-65	0.80	0.56	36.27	--	5.40	81.57	13.03	--
65-70	0.79	0.55	38.74	--	4.39	83.71	11.90	9.10
70-75	0.77	0.51	41.61	--	7.35	80.39	12.26	--
75-80	0.78	0.60	44.31	--	3.65	87.24	9.11	--
80-85	0.76	0.60	47.25	--	8.99	82.03	8.98	--
85-90	0.72	0.72	50.55	--	9.61	81.15	9.24	8.08

Table 5-1A3: Summary physical data for sediment core MM_03B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.74	0.61	0.62	--	7.61	78.00	14.39	8.08
1-2	0.74	0.61	1.25	--	5.04	81.23	13.73	8.12
2-3	0.72	0.64	1.91	--	3.76	84.57	11.67	7.82
3-4	0.72	0.64	2.57	--	5.63	83.24	11.13	6.55
4-5	0.77	0.48	3.11	--	6.95	82.76	10.29	6.77
5-6	0.77	0.48	3.65	--	2.76	85.07	12.17	8.68
6-7	0.71	0.66	4.35	--	1.07	88.81	10.13	6.21
7-8	0.71	0.66	5.04	--	3.24	86.03	10.73	7.15
8-9	0.72	0.64	5.71	--	5.48	83.97	10.56	7.85
9-10	0.72	0.64	6.37	--	3.83	82.97	13.20	7.28
10-11	0.72	0.61	7.04	--	3.37	86.37	10.26	8.08
11-12	0.72	0.61	7.71	--	7.37	82.83	9.80	7.65
12-13	0.72	0.59	8.37	--	8.97	81.23	9.80	7.17
13-14	0.72	0.59	9.04	--	6.38	81.61	12.01	7.60
14-15	0.72	0.64	9.69	--	8.64	81.40	9.96	8.65
15-16	0.72	0.64	10.34	--	5.19	84.47	10.34	9.19
16-17	0.74	0.57	10.95	--	5.46	84.92	9.62	10.78
17-18	0.74	0.57	11.56	--	9.80	80.48	9.72	9.85
18-19	0.76	0.51	12.13	--	15.55	72.98	11.47	8.73
19-20	0.76	0.51	12.70	--	4.00	84.05	11.95	8.08
20-22	0.75	0.56	13.90	--	9.38	80.66	9.96	8.38
22-24	0.74	0.63	15.12	--	9.83	78.74	11.43	7.66
24-26	0.74	0.55	16.37	--	18.10	73.89	8.01	8.26
26-28	0.76	0.53	17.50	--	8.47	80.33	11.20	9.99
28-30	0.77	0.50	18.61	--	4.01	85.05	10.94	9.44
30-32	0.73	0.60	19.86	--	25.18	67.89	6.93	9.18
32-34	0.76	0.55	21.03	--	19.00	74.26	6.74	6.90
34-36	0.77	0.53	22.13	--	18.39	71.74	9.87	9.03
36-38	0.76	0.53	23.26	--	13.63	77.65	8.72	9.66
38-40	0.79	0.47	24.29	--	9.62	78.45	11.93	--
40-45	0.77	0.50	27.13	--	7.34	82.12	10.54	--
45-50	0.74	0.57	30.27	--	6.99	82.16	10.85	5.46
50-55	0.74	0.57	33.30	--	8.72	79.97	11.31	9.01
55-60	0.75	0.56	36.25	--	8.68	80.08	11.24	9.15
60-65	0.76	0.56	39.11	--	0.00	99.86	0.14	8.65
65-70	0.76	0.56	41.97	--	6.39	80.75	12.86	8.95
70-75	0.76	0.55	44.81	--	8.41	82.67	8.92	8.78
75-80	0.75	0.59	47.77	--	6.59	81.43	11.98	8.68
80-85	0.76	0.55	50.66	--	6.49	83.42	10.09	8.60
85-90	0.74	0.61	53.72	--	9.96	81.19	8.85	9.39

Table 5-1A4: Summary physical data for sediment core MM_04C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.77	0.60	0.54	--	1.50	89.56	8.94	9.64
1-2	0.77	0.60	1.08	--	4.33	86.03	9.64	10.39
2-3	0.77	0.57	1.62	--	1.44	91.27	7.29	9.29
3-4	0.77	0.57	2.15	--	4.01	86.30	9.69	10.19
4-5	0.76	0.56	2.70	--	5.19	87.56	7.25	10.07
5-6	0.76	0.56	3.26	--	1.77	88.59	9.64	9.87
6-7	0.75	0.57	3.84	--	3.08	89.56	7.36	9.19
7-8	0.75	0.57	4.42	--	8.13	85.82	6.05	8.97
8-9	0.74	0.62	5.03	--	2.01	85.14	12.85	8.68
9-10	0.74	0.62	5.64	--	2.85	88.62	8.53	8.98
10-11	0.73	0.64	6.27	--	3.40	88.85	7.75	8.68
11-12	0.73	0.64	6.90	--	7.82	85.19	6.99	9.36
12-13	0.73	0.68	7.52	--	4.29	88.12	7.59	10.10
13-14	0.73	0.68	8.15	--	5.25	87.11	7.64	11.01
14-15	0.73	0.60	8.77	--	4.63	86.14	9.23	9.47
15-16	0.74	0.60	9.38	--	6.43	86.60	6.97	12.79
16-17	0.76	0.53	9.93	--	8.39	83.94	7.67	11.71
17-18	0.76	0.53	10.48	--	4.61	88.39	7.00	11.98
18-19	0.76	0.54	11.03	--	5.84	85.34	8.82	12.06
19-20	0.76	0.54	11.57	--	5.37	86.58	8.05	11.80
20-22	0.74	0.57	12.77	--	8.83	82.70	8.47	12.26
22-24	0.74	0.59	13.97	--	11.46	81.18	7.36	12.54
24-26	0.78	0.48	15.00	--	13.15	78.24	8.61	12.42
26-28	0.76	0.54	16.11	--	6.54	84.28	9.18	13.09
28-30	0.79	0.48	17.11	--	3.80	86.73	9.47	10.83
30-32	0.75	0.56	18.26	--	3.65	87.71	8.64	11.11
32-34	0.76	0.56	19.39	--	5.14	86.21	8.65	10.73
34-36	0.78	0.50	20.44	--	7.40	87.05	5.55	9.37
36-38	0.73	0.63	21.72	--	8.40	83.46	8.14	10.44
38-40	0.77	0.51	22.78	--	4.67	86.92	8.41	9.85
40-45	0.77	0.54	25.52	--	2.95	87.79	9.26	9.11
45-50	0.76	0.53	28.35	--	2.46	89.58	7.96	8.70
50-55	0.77	0.52	31.13	--	2.83	85.79	11.38	8.08
55-60	0.76	0.55	33.99	--	2.68	87.76	9.56	7.86
60-65	0.75	0.56	36.95	--	14.05	75.35	10.60	6.74
65-70	0.74	0.61	40.09	--	1.89	90.74	7.37	6.28
70-75	0.73	0.63	43.32	--	2.47	88.81	8.72	7.62
75-80	0.71	0.70	46.95	--	2.17	87.58	10.25	--
80-85	0.76	0.78	49.97	--	3.19	85.95	10.86	--
85-90	0.74	0.67	53.20	--	3.12	85.57	11.31	--

Table 5-1A5: Summary physical data for sediment core MM_05C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.82	0.31	0.43	--	9.41	83.32	7.27	10.52
1-2	0.83	0.31	0.82	--	5.57	84.75	9.68	13.97
2-3	0.86	0.37	1.14	--	6.16	85.82	8.02	13.63
3-4	0.82	0.37	1.56	--	7.58	83.23	9.19	15.56
4-5	0.83	0.30	1.94	--	7.08	82.84	10.08	17.71
5-6	0.83	0.30	2.32	--	6.20	82.13	11.67	17.35
6-7	0.85	0.40	2.65	--	6.57	83.15	10.28	16.39
7-8	0.86	0.40	2.96	--	8.84	80.59	10.57	16.16
8-9	0.86	0.39	3.27	--	3.00	85.24	11.76	17.03
9-10	0.89	0.39	3.50	--	7.76	81.73	10.51	19.84
10-11	0.84	0.35	3.87	--	4.55	83.46	11.99	12.32
11-12	0.86	0.35	4.18	--	5.36	83.02	11.62	14.63
12-13	0.89	0.35	4.43	--	3.99	84.01	12.00	17.12
13-14	0.90	0.35	4.65	--	4.79	80.69	14.52	15.74
14-15	0.87	0.39	4.95	--	8.10	79.85	12.05	14.04
15-16	0.84	0.39	5.31	--	5.91	81.02	13.07	15.75
16-17	0.86	0.29	5.63	--	7.02	81.50	11.48	16.95
17-18	0.86	0.29	5.94	--	16.76	75.41	7.83	18.36
18-19	0.89	0.29	6.20	--	3.19	85.23	11.58	15.81
19-20	0.87	0.29	6.49	--	9.78	83.78	6.44	18.87
20-22	0.87	0.42	7.08	--	7.22	82.14	10.64	16.07
22-24	0.87	0.43	7.66	--	13.65	77.99	8.36	17.98
24-26	0.85	0.45	8.36	--	8.31	82.07	9.62	13.52
26-28	0.87	0.41	8.96	--	11.62	77.94	10.44	13.41
28-30	0.83	0.48	9.76	--	6.04	84.31	9.65	11.86
30-32	0.82	0.46	10.60	--	7.04	80.66	12.30	12.88
32-34	0.81	0.53	11.47	--	10.44	79.42	10.14	12.21
34-36	0.78	0.55	12.51	--	7.36	81.33	11.31	10.12
36-38	0.78	0.59	13.52	--	5.03	84.49	10.48	12.28
38-40	0.77	0.63	14.61	--	9.17	79.50	11.33	9.37
40-45	0.76	0.69	17.49	--	3.61	87.50	8.89	8.74
45-50	0.75	0.59	20.46	--	3.08	86.81	10.11	7.92
50-55	0.73	0.67	23.76	--	3.04	90.13	6.83	6.36
55-60	0.70	0.58	27.37	--	3.84	86.10	10.06	6.98
60-65	0.67	0.66	31.42	--	3.32	87.59	9.09	4.73
65-70	0.63	0.74	35.88	--	1.64	89.47	8.89	4.54
70-75	0.63	0.71	40.42	--	2.01	90.58	7.41	4.16
75-80	0.65	0.64	44.72	--	1.66	90.38	7.96	4.59
80-85	0.67	0.64	48.77	--	2.44	88.82	8.74	4.74
85-90	0.67	0.72	52.82	--	2.81	90.43	6.76	5.01

Table 5-1A6: Summary physical data for sediment core MM_06A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.81	0.39	0.43	--	7.81	80.81	11.38	13.19
1-2	0.81	0.39	0.86	--	2.65	85.96	11.39	10.49
2-3	0.84	0.34	1.23	--	1.68	87.95	10.38	12.36
3-4	0.84	0.34	1.60	--	5.47	82.38	12.15	10.71
4-5	0.84	0.34	1.96	--	2.82	86.02	11.17	11.77
5-6	0.84	0.34	2.33	--	7.07	82.71	10.22	10.49
6-7	0.82	0.38	2.76	--	4.45	85.55	10.00	11.56
7-8	0.82	0.38	3.18	--	4.37	82.38	13.25	10.05
8-9	0.85	0.33	3.54	--	3.44	82.83	13.73	10.78
9-10	0.85	0.33	3.90	--	2.06	88.74	9.20	11.46
10-11	0.80	0.43	4.36	--	3.06	85.50	11.44	9.57
11-12	0.80	0.43	4.83	--	2.87	87.53	9.60	10.13
12-13	0.81	0.39	5.27	--	4.56	84.20	11.24	10.47
13-14	0.81	0.39	5.71	--	2.40	85.19	12.41	10.76
14-15	0.79	0.44	6.19	--	4.06	83.42	12.52	10.99
15-16	0.79	0.44	6.67	--	4.79	80.97	14.24	11.48
16-17	0.77	0.52	7.20	--	5.55	81.95	12.50	11.29
17-18	0.77	0.52	7.72	--	7.32	80.41	12.27	11.42
18-19	0.82	0.39	8.14	--	7.86	78.60	13.54	12.39
19-20	0.82	0.39	8.56	--	3.79	84.90	11.31	11.95
20-22	0.85	0.32	9.25	--	4.61	84.13	11.26	11.52
22-24	0.83	0.37	10.04	--	3.08	85.59	11.33	12.34
24-26	0.81	0.43	10.90	--	4.67	82.11	13.22	13.32
26-28	0.81	0.43	11.79	--	2.55	83.65	13.80	12.62
28-30	0.82	0.38	12.60	--	4.57	81.36	14.07	11.86
30-32	0.84	0.33	13.32	--	3.83	83.70	12.47	11.84
32-34	0.82	0.35	14.13	--	2.71	85.30	11.99	11.88
34-36	0.83	0.36	14.90	--	2.50	87.12	10.38	11.61
36-38	0.82	0.38	15.73	--	2.30	84.52	13.18	13.17
38-40	0.81	0.39	16.59	--	2.70	82.61	14.69	13.30
40-45	0.80	0.41	18.96	--	2.11	84.52	13.37	11.20
45-50	0.79	0.46	21.43	--	4.96	81.36	13.68	10.05
50-55	0.76	0.50	24.21	--	3.32	85.68	11.00	9.64
55-60	0.74	0.57	27.24	--	2.37	86.94	10.69	7.61
60-65	0.76	0.52	30.11	--	3.37	86.33	10.30	7.16
65-70	0.76	0.54	32.95	--	5.59	87.34	7.07	7.62
70-75	0.75	0.49	35.91	--	2.59	90.02	7.39	8.25
75-80	0.71	0.62	39.29	--	8.72	83.78	7.50	7.92
80-85	0.70	0.71	42.87	--	3.32	88.17	8.51	6.61
85-90	0.72	0.61	46.21	--	3.56	88.46	7.98	5.47

Table 5-1A7: Summary physical data for sediment core MM_07A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.85	0.33	0.36	--	2.05	87.47	10.48	--
1-2	0.85	0.33	0.71	--	1.93	88.10	9.97	12.22
2-3	0.84	0.34	1.08	--	2.89	85.38	11.73	9.74
3-4	0.84	0.34	1.45	--	1.73	87.49	10.78	10.66
4-5	0.83	0.36	1.84	--	5.23	84.48	10.29	11.47
5-6	0.81	0.36	2.27	--	3.64	84.24	12.12	11.44
6-7	0.81	0.38	2.71	--	4.40	82.92	12.68	11.26
7-8	0.82	0.38	3.13	--	4.33	81.85	13.82	10.53
8-9	0.78	0.38	3.64	--	3.40	85.19	11.41	9.92
9-10	0.78	0.38	4.15	--	5.67	81.15	13.18	9.08
10-11	0.77	0.40	4.70	--	6.08	84.70	9.22	8.68
11-12	0.76	0.40	5.25	--	5.77	82.75	11.48	9.13
12-13	0.75	0.53	5.84	--	4.87	85.32	9.81	8.64
13-14	0.76	0.53	6.41	--	5.45	82.71	11.84	8.85
14-15	0.80	0.48	6.88	--	6.27	83.70	10.03	9.50
15-16	0.83	0.48	7.28	--	4.20	86.25	9.55	10.75
16-17	0.83	0.38	7.67	--	4.03	84.54	11.43	11.25
17-18	0.84	0.38	8.04	--	5.23	83.52	11.25	12.11
18-19	0.83	0.33	8.44	--	3.68	86.82	9.50	11.15
19-20	0.83	0.33	8.84	--	2.87	83.68	13.45	11.25
20-22	0.78	0.37	9.88	--	6.12	84.64	9.24	9.18
22-24	0.81	0.34	10.74	--	4.08	83.83	12.09	11.81
24-26	0.81	0.39	11.63	--	8.26	78.76	12.98	11.23
26-28	0.83	0.38	12.41	--	5.28	80.41	14.31	13.74
28-30	0.82	0.36	13.20	--	5.84	83.33	10.83	17.19
30-32	0.83	0.38	13.96	--	4.77	81.60	13.63	13.14
32-34	0.82	0.34	14.77	--	3.21	86.62	10.17	12.13
34-36	0.82	0.36	15.62	--	6.35	83.88	9.77	11.54
36-38	0.83	0.39	16.40	--	3.03	83.89	13.08	12.05
38-40	0.83	0.37	17.17	--	5.20	83.04	11.76	12.25
40-45	0.83	0.37	19.13	--	7.30	81.81	10.89	12.56
45-50	0.82	0.39	21.41	--	10.41	79.50	10.09	--
50-55	0.83	0.39	23.60	--	2.48	85.33	12.19	--
55-60	0.82	0.39	25.81	--	5.41	83.94	10.65	--
60-65	0.80	0.44	28.29	--	3.16	85.50	11.34	--
65-70	0.81	0.42	30.70	--	1.86	90.17	7.97	--
70-75	0.80	0.40	33.21	--	3.86	88.25	7.89	--
75-80	0.80	0.43	35.72	--	4.41	84.72	10.87	--
80-85	0.80	0.48	38.18	--	2.65	89.72	7.63	--
85-90	0.82	0.43	40.48	--	5.35	85.31	9.34	--

Table 5-1A8: Summary physical data for sediment core MM_08A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.94	0.35	0.14	--	7.24	86.15	6.61	15.21
1-2	0.86	0.35	0.47	--	4.12	88.49	7.39	10.93
2-3	0.85	0.30	0.82	--	4.11	88.43	7.46	10.50
3-4	0.84	0.30	1.23	--	4.93	86.95	8.12	--
4-5	0.83	0.39	1.64	--	4.21	87.64	8.15	10.10
5-6	0.81	0.39	2.07	--	5.19	86.08	8.73	10.42
6-7	0.81	0.38	2.51	--	7.93	84.05	8.02	8.45
7-8	0.82	0.38	2.92	--	8.26	83.70	8.04	11.67
8-9	0.82	0.38	3.32	--	4.22	87.93	7.85	11.60
9-10	0.83	0.38	3.72	--	3.01	89.85	7.14	12.18
10-11	0.83	0.36	4.12	--	6.44	85.20	8.36	12.02
11-12	0.83	0.36	4.50	--	4.06	87.34	8.60	12.83
12-13	0.83	0.38	4.89	--	12.86	78.83	8.31	11.90
13-14	0.80	0.38	5.35	--	8.66	85.18	6.16	9.37
14-15	0.78	0.33	5.85	--	2.92	89.81	7.27	9.75
15-16	0.83	0.33	6.24	--	9.70	82.69	7.61	13.34
16-17	0.82	0.33	6.65	--	11.76	80.94	7.30	11.94
17-18	0.83	0.33	7.03	--	6.81	82.08	11.11	14.10
18-19	0.85	0.29	7.38	--	11.66	81.21	7.13	11.41
19-20	0.84	0.29	7.74	--	9.94	84.87	5.19	14.84
20-22	0.86	0.26	8.39	--	11.80	79.66	8.54	14.90
22-24	0.85	0.26	9.08	--	3.44	90.15	6.41	13.12
24-26	0.84	0.29	9.80	--	13.43	79.59	6.98	13.00
26-28	0.81	0.40	10.67	--	8.44	85.97	5.59	10.50
28-30	0.83	0.39	11.49	--	6.68	84.74	8.58	10.30
30-32	0.84	0.37	12.24	--	4.69	88.66	6.65	11.49
32-34	0.82	0.37	13.07	--	4.61	86.97	8.42	11.40
34-36	0.81	0.44	13.97	--	10.68	81.98	7.34	10.85
36-38	0.80	0.40	14.90	--	6.30	85.97	7.73	10.23
38-40	0.81	0.45	15.81	--	6.63	85.69	7.68	9.32
40-45	0.70	0.48	19.40	--	6.05	85.76	8.19	9.10
45-50	0.79	0.46	21.89	--	8.42	83.64	7.94	7.45
50-55	0.78	0.47	24.49	--	11.17	80.58	8.25	6.68
55-60	0.73	0.58	27.68	--	13.36	79.92	6.72	5.90
60-65	0.67	0.68	31.71	--	11.78	80.62	7.60	4.87
65-70	0.68	0.56	35.60	--	18.35	70.18	11.47	4.74
70-75	0.68	0.63	39.44	--	5.67	87.32	7.01	4.73
75-80	0.66	0.57	43.59	--	10.47	81.11	8.42	4.55
80-85	0.72	0.60	46.92	--	6.06	85.79	8.15	4.79
85-90	0.76	0.50	49.88	--	5.94	86.10	7.96	5.26

Table 5-1A9: Summary physical data for sediment core MM_09B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.83	0.29	0.39	--	4.18	86.40	9.42	15.31
1-2	0.87	0.29	0.68	--	3.52	85.25	11.23	15.81
2-3	0.89	0.31	0.92	--	5.89	81.53	12.58	14.68
3-4	0.89	0.31	1.16	--	5.90	81.36	12.74	15.52
4-5	0.89	0.27	1.40	--	7.03	82.62	10.35	17.37
5-6	0.89	0.27	1.64	--	4.25	85.81	9.94	14.89
6-7	0.90	0.34	1.87	--	1.21	84.54	14.25	14.89
7-8	0.90	0.34	2.10	--	8.68	78.46	12.86	16.70
8-9	0.86	0.30	2.41	--	8.52	79.33	12.15	17.33
9-10	0.89	0.30	2.66	--	5.52	84.33	10.15	14.31
10-11	0.92	0.31	2.85	--	8.14	79.09	12.77	14.35
11-12	0.90	0.31	3.07	--	6.21	85.07	8.72	15.68
12-13	0.89	0.32	3.32	--	8.59	81.69	9.72	13.53
13-14	0.89	0.32	3.58	--	10.90	77.37	11.73	14.62
14-15	0.87	0.29	3.87	--	11.02	77.09	11.89	15.91
15-16	0.89	0.29	4.12	--	9.73	77.70	12.57	14.50
16-17	0.86	0.29	4.45	--	11.76	76.86	11.38	11.75
17-18	0.89	0.29	4.70	--	6.93	79.78	13.29	14.69
18-19	0.88	0.28	4.98	--	18.19	71.23	10.58	16.13
19-20	0.89	0.28	5.22	--	7.61	79.28	13.11	14.60
20-22	0.89	0.29	5.71	--	2.99	87.41	9.60	18.62
22-24	0.89	0.30	6.20	--	3.91	88.33	7.76	17.25
24-26	0.91	0.26	6.60	--	3.28	85.00	11.72	15.63
26-28	0.90	0.23	7.05	--	2.53	81.82	15.65	14.11
28-30	0.91	0.29	7.46	--	1.04	85.72	13.24	14.26
30-32	0.87	0.30	8.05	--	1.64	85.96	12.40	11.54
32-34	0.85	0.36	8.74	--	3.42	85.18	11.40	11.51
34-36	0.83	0.40	9.51	--	3.71	84.29	12.00	11.53
36-38	0.83	0.41	10.31	--	2.44	82.95	14.61	10.34
38-40	0.85	0.38	11.00	--	0.71	82.85	16.44	8.70
40-45	0.85	0.40	12.78	--	1.36	86.35	12.29	7.74
45-50	0.78	0.48	15.47	--	1.62	87.49	10.89	6.06
50-55	0.77	0.58	18.21	--	1.37	87.13	11.50	5.06
55-60	0.81	0.61	20.53	--	2.32	88.28	9.40	4.64
60-65	0.65	0.75	24.83	--	6.92	81.96	11.12	4.44
65-70	0.78	0.70	27.49	--	2.12	87.03	10.85	4.52
70-75	0.85	0.55	29.36	--	2.28	88.07	9.65	4.37
75-80	0.80	0.51	31.82	--	3.09	88.67	8.24	4.59
80-85	0.77	0.58	34.58	--	1.33	87.23	11.44	4.83
85-90	0.74	0.53	37.75	--	1.60	87.28	11.12	4.54

Table 5-1A10: Summary physical data for sediment core MM_11B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.64	0.42	0.87	--	4.46	88.23	7.31	5.93
1-2	0.71	0.42	1.58	--	3.99	87.24	8.77	6.38
2-3	0.70	0.38	2.29	--	6.75	83.93	9.32	6.78
3-4	0.71	0.38	2.98	--	6.28	85.99	7.73	8.18
4-5	0.71	0.45	3.66	--	8.41	83.77	7.82	7.19
5-6	0.68	0.45	4.44	--	5.28	86.70	8.02	7.28
6-7	0.78	0.48	4.97	--	6.37	87.61	6.02	7.65
7-8	0.74	0.48	5.59	--	9.94	86.38	3.68	7.11
8-9	0.74	0.61	6.19	--	15.71	78.56	5.73	7.48
9-10	0.73	0.61	6.83	--	19.06	76.18	4.76	7.48
10-11	0.70	0.69	7.54	--	11.70	81.14	7.16	6.99
11-12	0.70	0.69	8.27	--	18.13	75.89	5.98	5.96
12-13	0.70	0.79	8.99	--	15.48	77.81	6.71	5.66
13-14	0.67	0.79	9.79	--	12.33	79.99	7.68	4.70
14-15	0.69	0.75	10.55	--	8.33	83.34	8.33	4.79
15-16	0.66	0.75	11.37	--	10.56	81.85	7.59	4.44
16-17	0.54	1.11	12.48	--	6.53	84.48	8.99	3.79
17-18	0.64	1.11	13.36	--	8.75	83.98	7.27	4.54
18-19	0.60	0.87	14.33	--	14.04	78.60	7.36	3.15
19-20	0.60	0.87	15.30	--	14.71	78.65	6.64	3.74
20-22	0.62	0.87	17.12	--	23.66	70.95	5.39	4.53
22-24	0.50	0.80	19.59	--	16.94	75.43	7.63	3.35
24-26	0.51	0.97	21.98	--	13.57	77.98	8.45	3.47
26-28	0.53	0.93	24.31	--	8.68	84.52	6.80	--
28-30	0.54	1.02	26.55	--	11.99	80.06	7.95	3.32
30-32	0.55	0.97	28.76	--	12.94	78.96	8.10	3.38
32-34	0.55	0.92	30.95	--	15.15	77.60	7.25	3.31
34-36	0.56	0.92	33.13	--	8.34	84.11	7.55	3.35
36-38	0.59	0.92	35.11	--	10.88	80.69	8.43	3.31
38-40	0.62	0.86	36.95	--	8.81	82.77	8.42	3.51
40-45	0.61	0.90	41.67	--	11.85	79.70	8.45	3.48
45-50	0.59	0.99	46.73	--	7.81	84.71	7.48	2.81
50-55	0.58	1.03	51.90	--	7.37	85.35	7.28	2.90
55-60	0.57	1.00	57.15	--	9.14	84.68	6.18	3.03
60-65	0.60	0.98	62.08	--	9.16	83.49	7.35	3.16
65-70	0.62	0.95	66.71	--	9.25	83.43	7.32	3.33
70-75	0.65	0.83	70.97	--	3.40	87.34	9.26	3.84
75-80	0.66	0.87	75.11	--	4.62	87.51	7.87	3.75
80-85	0.67	0.83	79.11	--	5.85	86.19	7.96	4.13
85-90	0.53	0.92	84.81	--	17.23	75.84	6.93	3.64

Table 5-1A11: Summary physical data for sediment core MM_12C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.61	1.11	0.96	--	20.55	72.24	7.21	1.95
1-2	0.58	1.11	2.00	--	19.51	73.28	7.21	2.06
2-3	0.59	1.18	3.02	--	25.84	68.97	5.19	1.84
3-4	0.57	1.18	4.08	--	14.52	78.55	6.93	1.81
4-5	0.58	1.09	5.12	--	13.28	79.23	7.49	1.88
5-6	0.56	1.09	6.20	--	16.00	76.04	7.96	1.88
6-7	0.58	1.09	7.23	--	11.89	80.45	7.66	1.92
7-8	0.57	1.09	8.30	--	10.51	83.08	6.41	2.07
8-9	0.58	1.09	9.33	--	11.51	81.31	7.18	2.14
9-10	0.58	1.09	10.36	--	11.35	81.02	7.63	2.07
10-11	0.55	1.14	11.48	--	11.64	80.30	8.06	2.07
11-12	0.56	1.14	12.57	--	14.14	78.82	7.04	1.88
12-13	0.56	1.12	13.66	--	13.08	79.50	7.42	1.92
13-14	0.58	1.12	14.70	--	12.53	80.42	7.05	1.93
14-15	0.56	1.10	15.77	--	16.64	75.60	7.76	1.92
15-16	0.55	1.10	16.87	--	19.92	74.51	5.57	1.70
16-17	0.55	1.05	17.99	--	24.09	70.41	5.50	1.78
17-18	0.57	1.05	19.05	--	19.23	74.24	6.53	1.86
18-19	0.56	1.03	20.13	--	32.88	62.00	5.12	1.88
19-20	0.56	1.03	21.22	--	17.64	75.37	6.99	1.77
20-22	0.56	1.05	23.42	--	19.71	73.91	6.38	1.73
22-24	0.56	1.13	25.61	--	20.12	74.82	5.06	1.81
24-26	0.57	1.11	27.71	--	15.37	76.71	7.92	1.82
26-28	0.56	1.08	29.86	--	19.37	74.29	6.34	1.78
28-30	0.56	1.17	32.03	--	19.08	73.81	7.11	1.93
30-32	0.58	1.14	34.12	--	17.88	74.78	7.34	1.88
32-34	0.54	1.18	36.38	--	20.84	73.16	6.00	1.77
34-36	0.56	1.29	38.54	--	22.09	72.34	5.57	1.90
36-38	0.56	1.10	40.73	--	20.29	72.94	6.77	2.14
38-40	0.53	1.18	43.04	--	22.27	71.39	6.34	1.88
40-45	0.55	1.12	48.64	--	17.34	75.79	6.87	1.86
45-50	0.57	1.07	53.91	--	21.54	71.35	7.11	1.95
50-55	0.59	1.07	58.94	--	15.93	77.06	7.01	1.94
55-60	0.59	1.00	63.97	--	13.83	78.56	7.61	1.91
60-65	0.55	1.16	69.49	--	22.94	72.10	4.96	1.74
65-70	0.56	1.11	74.86	--	21.60	72.33	6.07	2.00
70-75	0.58	1.04	80.08	--	18.90	75.56	5.54	2.11
75-80	0.54	1.12	85.79	--	22.24	72.56	5.20	2.04
80-85	0.55	1.13	91.33	--	17.85	76.60	5.55	1.83
85-90	0.54	1.15	96.98	--	16.37	77.16	6.47	1.68

Table 5-1A12: Summary physical data for sediment core OR_01B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.71	0.67	0.71	--	3.36	87.41	9.23	4.82
1-2	0.71	0.67	1.41	--	2.21	87.99	9.80	5.49
2-3	0.71	0.80	2.11	--	1.14	86.90	11.96	4.61
3-4	0.70	0.80	2.85	--	1.94	86.60	11.46	4.31
4-5	0.64	0.76	3.72	--	3.66	84.81	11.53	4.15
5-6	0.78	0.76	4.25	--	1.86	87.05	11.09	3.99
6-7	0.48	0.76	5.51	--	1.51	86.57	11.92	4.12
7-8	0.79	0.76	6.01	--	2.37	85.91	11.72	4.30
8-9	0.49	0.89	7.25	--	1.61	86.67	11.72	4.12
9-10	0.62	0.89	8.17	--	1.45	86.67	11.88	4.20
10-11	0.67	0.92	8.96	--	1.47	85.88	12.65	4.23
11-12	0.65	0.92	9.81	--	1.27	87.18	11.55	3.90
12-13	0.65	0.97	10.67	--	1.43	86.66	11.91	3.82
13-14	0.65	0.97	11.52	--	1.19	86.96	11.85	3.93
14-15	0.38	1.05	13.03	--	1.66	87.70	10.64	3.50
15-16	0.62	1.05	13.95	--	1.12	87.83	11.05	3.41
16-17	0.63	1.02	14.86	--	1.32	87.16	11.52	3.39
17-18	0.62	1.02	15.80	--	0.99	88.08	10.93	3.51
18-19	0.63	1.00	16.71	--	1.86	87.16	10.98	3.73
19-20	0.65	1.00	17.57	--	1.13	87.07	11.80	3.66
20-22	0.65	0.93	19.30	--	1.19	86.62	12.19	3.73
22-24	0.64	0.91	21.05	--	1.24	88.00	10.76	3.71
24-26	0.63	1.00	22.87	--	1.29	88.18	10.53	3.39
26-28	0.61	1.02	24.80	--	1.57	87.50	10.93	3.19
28-30	0.60	1.08	26.78	--	5.74	84.57	9.69	3.17
30-32	0.60	1.06	28.74	--	2.99	87.27	9.74	3.02
32-34	0.59	1.08	30.75	--	2.99	87.09	9.92	3.15
34-36	0.59	1.03	32.74	--	3.79	86.72	9.49	3.04
36-38	0.57	1.14	34.84	--	2.27	87.76	9.97	2.86
38-40	0.57	1.11	36.93	--	2.40	87.25	10.35	2.77
40-45	0.57	1.13	42.20	--	2.08	88.19	9.73	2.78
45-50	0.55	1.10	47.69	--	5.15	86.94	7.91	2.77
50-55	0.53	1.25	53.44	--	11.99	80.61	7.40	2.40
55-60	0.52	1.27	59.39	--	4.08	88.09	7.83	2.31
60-65	0.51	1.33	65.37	--	3.34	88.05	8.61	2.21
65-70	0.51	1.32	71.34	--	7.04	85.91	7.05	2.24
70-75	0.51	1.28	77.40	--	4.02	87.33	8.65	2.11
75-80	0.53	1.21	83.21	--	2.95	87.58	9.47	2.16
80-85	0.53	1.19	88.97	--	2.35	87.98	9.67	2.24
85-90	0.53	1.16	94.76	--	2.13	87.89	9.98	2.24

Table 5-1A13: Summary physical data for sediment core OR_02B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.70	0.49	0.70	--	10.35	79.68	9.97	7.29
1-2	0.70	0.49	1.41	--	17.78	75.21	7.01	7.26
2-3	0.77	0.49	1.95	--	8.41	82.04	9.55	7.73
3-4	0.76	0.49	2.53	--	5.67	84.07	10.26	8.00
4-5	0.77	0.47	3.07	--	5.38	83.50	11.12	7.78
5-6	0.77	0.47	3.61	--	4.59	84.06	11.35	8.35
6-7	0.77	0.49	4.15	--	7.09	81.82	11.09	8.24
7-8	0.79	0.49	4.65	--	4.58	85.13	10.29	8.45
8-9	0.78	0.54	5.17	--	4.85	84.92	10.23	8.67
9-10	0.78	0.54	5.69	--	4.78	84.75	10.47	8.15
10-11	0.77	0.52	6.22	--	4.95	84.09	10.96	7.91
11-12	0.78	0.52	6.75	--	5.31	86.35	8.34	7.85
12-13	0.78	0.50	7.27	--	4.02	84.38	11.60	8.64
13-14	0.79	0.50	7.76	--	4.63	85.39	9.98	9.34
14-15	0.80	0.45	8.21	--	12.97	78.17	8.86	10.37
15-16	0.80	0.45	8.68	--	7.08	84.46	8.46	10.16
16-17	0.82	0.38	9.09	--	7.24	81.56	11.20	10.87
17-18	0.85	0.38	9.44	--	6.24	82.92	10.84	12.48
18-19	0.83	0.39	9.84	--	4.95	85.02	10.03	12.00
19-20	0.82	0.39	10.25	--	2.17	88.36	9.47	11.53
20-22	0.81	0.41	11.14	--	6.34	82.18	11.48	11.05
22-24	0.81	0.42	12.03	--	5.39	83.61	11.00	11.25
24-26	0.82	0.41	12.95	--	4.42	84.19	11.39	--
26-28	0.81	0.46	13.92	--	5.90	83.52	10.58	--
28-30	0.81	0.50	14.87	--	6.93	83.13	9.94	--
30-32	0.81	0.46	15.84	--	7.24	82.21	10.55	--
32-34	0.79	0.52	16.87	--	8.63	82.01	9.36	--
34-36	0.79	0.47	17.94	--	7.38	82.86	9.76	--
36-38	0.81	0.47	18.90	--	7.02	83.68	9.30	--
38-40	0.80	0.50	19.92	--	5.69	84.13	10.18	--
40-45	0.78	0.51	22.62	--	5.76	83.40	10.84	--
45-50	0.79	0.48	25.30	--	7.82	82.18	10.00	--
50-55	0.80	0.46	27.78	--	6.32	82.91	10.77	--
55-60	0.80	0.47	30.28	--	5.58	85.57	8.85	--
60-65	0.72	0.50	33.76	--	5.77	83.31	10.92	--
65-70	0.79	0.49	36.35	--	6.06	84.81	9.13	--
70-75	0.82	0.48	38.54	--	7.38	81.45	11.17	--
75-80	0.78	0.38	41.23	--	6.73	82.75	10.52	--
80-85	0.79	0.50	43.90	--	18.10	73.60	8.30	--
85-90	0.77	0.56	46.82	--	8.36	81.88	9.76	--

Table 5-1A14: Summary physical data for sediment core OR_03A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.80	0.49	0.46	--	11.99	79.29	8.72	14.14
1-2	0.82	0.49	0.88	--	15.57	76.59	7.84	9.74
2-3	0.81	0.46	1.34	--	20.06	72.02	7.92	8.57
3-4	0.81	0.46	1.79	--	30.18	64.58	5.24	11.13
4-5	0.81	0.45	2.21	--	12.03	80.49	7.48	13.58
5-6	0.81	0.45	2.65	--	16.62	75.81	7.57	10.21
6-7	0.82	0.48	3.08	--	47.52	48.50	3.98	9.69
7-8	0.77	0.48	3.61	--	11.40	80.27	8.33	12.34
8-9	0.77	0.50	4.15	--	11.25	78.35	10.40	9.27
9-10	0.77	0.50	4.68	--	10.48	80.53	8.99	8.86
10-11	0.77	0.52	5.22	--	11.34	80.05	8.61	8.66
11-12	0.78	0.52	5.73	--	11.75	80.44	7.81	8.77
12-13	0.78	0.49	6.25	--	11.14	80.33	8.53	9.56
13-14	0.78	0.49	6.78	--	13.65	80.26	6.09	7.04
14-15	0.77	0.49	7.31	--	11.22	82.13	6.65	10.55
15-16	0.77	0.49	7.84	--	12.84	79.95	7.21	11.11
16-17	0.75	0.51	8.42	--	11.07	80.83	8.10	9.36
17-18	0.78	0.51	8.93	--	10.22	81.21	8.57	7.00
18-19	0.79	0.49	9.43	--	11.49	80.16	8.35	7.08
19-20	0.79	0.49	9.94	--	9.05	80.54	10.41	6.56
20-22	0.80	0.46	10.86	--	12.65	78.51	8.84	8.11
22-24	0.82	0.47	11.72	--	10.64	81.05	8.31	9.07
24-26	0.81	0.48	12.60	--	8.61	78.85	12.54	9.10
26-28	0.78	0.42	13.59	--	10.63	80.77	8.60	13.19
28-30	0.82	0.40	14.40	--	11.77	79.12	9.11	11.81
30-32	0.84	0.29	15.11	--	8.05	80.30	11.65	12.74
32-34	0.81	0.40	15.98	--	10.01	80.26	9.73	12.02
34-36	0.82	0.47	16.83	--	12.29	79.42	8.29	11.26
36-38	0.83	0.38	17.61	--	10.69	77.75	11.56	13.44
38-40	0.82	0.36	18.44	--	12.52	80.22	7.26	13.33
40-45	0.82	0.42	20.51	--	10.40	80.33	9.27	9.88
45-50	0.82	0.41	22.56	--	10.02	79.96	10.02	11.63
50-55	0.81	0.46	24.84	--	9.90	80.97	9.13	8.99
55-60	0.80	0.44	27.11	--	8.27	81.06	10.67	11.36
60-65	0.81	0.47	29.33	--	9.52	80.48	10.00	11.45
65-70	0.79	0.53	31.86	--	8.21	80.24	11.55	7.94
70-75	0.79	0.53	34.35	--	12.34	78.74	8.92	8.86
75-80	0.79	0.48	36.81	--	7.44	82.77	9.79	9.41
80-85	0.74	0.56	39.81	--	9.53	81.50	8.97	9.58
85-90	0.73	0.65	43.04	--	9.01	82.54	8.46	5.64

Table 5-1A15: Summary physical data for sediment core OR_05C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.73	0.54	0.64	--	5.21	83.22	11.57	5.69
1-2	0.77	0.54	1.21	--	2.70	86.46	10.84	6.19
2-3	0.77	0.53	1.76	--	2.04	88.21	9.75	6.18
3-4	0.77	0.53	2.31	--	2.70	87.19	10.11	6.75
4-5	0.77	0.54	2.86	--	3.09	88.28	8.63	6.46
5-6	0.75	0.54	3.45	--	24.82	69.67	5.51	6.45
6-7	0.76	0.56	4.04	--	3.18	88.31	8.51	5.71
7-8	0.76	0.56	4.62	--	4.01	88.93	7.06	5.76
8-9	0.77	0.54	5.18	--	5.04	84.06	10.90	6.00
9-10	0.77	0.54	5.72	--	5.22	85.71	9.07	6.10
10-11	0.77	0.51	6.28	--	5.57	85.55	8.88	7.17
11-12	0.77	0.51	6.82	--	4.82	85.38	9.80	7.28
12-13	0.77	0.52	7.37	--	4.08	85.51	10.41	7.12
13-14	0.76	0.52	7.94	--	3.31	87.91	8.78	6.76
14-15	0.77	0.65	8.48	--	4.55	85.15	10.30	6.52
15-16	0.76	0.65	9.05	--	3.24	86.82	9.94	6.93
16-17	0.77	0.54	9.61	--	4.51	84.85	10.64	7.01
17-18	0.77	0.54	10.16	--	3.25	86.17	10.58	7.25
18-19	0.76	0.52	10.72	--	3.44	87.34	9.22	7.20
19-20	0.77	0.52	11.28	--	3.85	86.07	10.08	7.71
20-22	0.77	0.50	12.35	--	3.87	85.22	10.91	8.12
22-24	0.78	0.47	13.39	--	3.92	86.33	9.75	8.77
24-26	0.79	0.47	14.38	--	7.59	80.56	11.85	9.59
26-28	0.81	0.42	15.26	--	4.68	81.58	13.74	9.88
28-30	0.82	0.43	16.12	--	2.66	86.09	11.25	10.68
30-32	0.81	0.39	16.98	--	3.24	85.98	10.78	11.89
32-34	0.80	0.44	17.93	--	6.16	80.40	13.44	10.35
34-36	0.78	0.48	18.96	--	6.33	82.00	11.67	8.38
36-38	0.76	0.47	20.08	--	8.98	80.43	10.59	8.02
38-40	0.78	0.47	21.10	--	4.17	85.65	10.18	9.16
40-45	0.78	0.46	23.68	--	26.38	67.99	5.63	9.62
45-50	0.65	0.78	27.98	--	5.92	82.87	11.21	3.69
50-55	0.60	0.98	32.90	--	4.96	85.40	9.64	2.45
55-60	0.53	0.96	38.65	--	7.96	82.69	9.35	2.31
60-65	0.56	1.08	44.05	--	10.04	81.31	8.65	2.25
65-70	0.56	0.98	49.44	--	6.30	86.81	6.89	2.32
70-75	0.58	0.91	54.65	--	4.85	85.15	10.00	2.31
75-80	0.58	0.92	59.79	--	6.33	83.99	9.68	2.32
80-85	0.59	0.97	64.81	--	5.34	83.95	10.71	2.35
85-90	0.59	0.93	69.82	--	7.30	84.43	8.27	2.32

Table 5-1A16: Summary physical data for sediment core OR_06B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.81	0.42	0.46	--	10.54	76.93	12.53	6.66
1-2	0.80	0.42	0.91	--	8.50	79.86	11.64	11.59
2-3	0.76	0.56	1.50	--	7.90	80.48	11.62	6.11
3-4	0.76	0.56	2.08	--	9.35	80.77	9.88	6.33
4-5	0.75	0.58	2.68	--	11.25	79.72	9.03	7.09
5-6	0.75	0.58	3.29	--	8.41	84.07	7.52	6.48
6-7	0.73	0.60	3.93	--	7.21	84.17	8.62	6.58
7-8	0.73	0.60	4.57	--	8.95	80.93	10.12	6.77
8-9	0.76	0.53	5.13	--	9.18	80.88	9.94	6.30
9-10	0.76	0.53	5.69	--	8.92	81.07	10.01	7.70
10-11	0.77	0.51	6.23	--	8.51	80.48	11.01	8.60
11-12	0.77	0.51	6.77	--	11.37	78.73	9.90	8.70
12-13	0.74	0.57	7.38	--	8.71	80.04	11.25	7.89
13-14	0.74	0.57	7.98	--	8.39	80.92	10.69	7.79
14-15	0.78	0.50	8.52	--	7.07	80.76	12.17	8.51
15-16	0.77	0.50	9.05	--	5.02	82.38	12.60	10.13
16-17	0.81	0.41	9.48	--	5.87	83.97	10.16	9.91
17-18	0.81	0.41	9.91	--	5.91	81.34	12.75	10.12
18-19	0.82	0.41	10.34	--	5.89	79.36	14.75	9.84
19-20	0.82	0.41	10.77	--	5.94	80.17	13.89	10.49
20-22	0.81	0.40	11.65	--	10.43	79.50	10.07	10.95
22-24	0.78	0.45	12.63	--	18.87	70.36	10.77	15.60
24-26	0.63	0.83	14.37	--	13.62	74.14	12.24	7.82
26-28	0.73	0.62	15.67	--	11.85	78.32	9.83	7.22
28-30	0.75	0.56	16.85	--	8.93	81.08	9.99	7.42
30-32	0.78	0.47	17.86	--	9.28	78.59	12.13	14.42
32-34	0.79	0.45	18.81	--	8.05	80.65	11.30	11.87
34-36	0.84	0.33	19.53	--	8.84	79.32	11.84	14.67
36-38	0.81	0.42	20.42	--	8.54	81.48	9.98	10.91
38-40	0.82	0.40	21.27	--	12.10	78.17	9.73	12.10
40-45	0.77	0.50	23.98	--	7.65	82.60	9.75	10.57
45-50	0.77	0.50	26.66	--	12.23	78.15	9.62	9.80
50-55	0.75	0.49	29.60	--	11.45	78.90	9.65	7.77
55-60	0.69	0.69	33.28	--	14.20	77.81	7.99	8.49
60-65	0.65	0.85	37.58	--	5.35	72.20	22.45	4.85
65-70	0.65	0.81	41.80	--	11.15	76.04	12.81	3.54
70-75	0.66	0.75	45.88	--	10.12	75.94	13.94	4.92
75-80	0.64	0.83	50.25	--	20.90	68.83	10.27	4.87
80-85	0.66	0.84	54.28	--	11.95	74.03	14.02	6.03
85-90	0.65	0.87	58.56	--	16.97	70.43	12.60	4.58

Table 5-1A17: Summary physical data for sediment core PBR_1.5B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.65	0.80	0.88	--	63.39	33.84	2.77	--
1-2	0.64	0.80	1.76	--	61.54	35.62	2.84	3.71
2-3	0.66	0.76	2.59	--	53.16	43.05	3.79	4.62
3-4	0.66	0.76	3.41	--	45.43	50.22	4.35	6.25
4-5	0.67	0.65	4.21	--	45.42	49.9	4.68	5.30
5-6	0.66	0.65	5.02	--	46.7	48.21	5.09	5.52
6-7	0.65	0.72	5.87	--	48.23	47.06	4.71	4.96
7-8	0.56	0.72	6.96	--	49.4	45.93	4.67	3.20
8-9	0.42	0.71	8.38	--	47.35	48.08	4.57	4.28
9-10	0.50	0.71	9.61	--	44.62	50.52	4.86	3.50
10-11	0.48	0.74	10.87	--	42.37	51.46	6.17	5.56
11-12	0.64	0.74	11.75	--	48.86	46.31	4.83	3.65
12-13	0.56	0.85	12.83	--	68.97	29.32	1.71	1.54
13-14	0.67	0.85	13.64	--	64.73	32.6	2.67	2.65
14-15	0.59	1.05	14.66	--	60.29	36.08	3.63	2.60
15-16	0.56	1.05	15.76	--	42.64	52.3	5.06	1.70
16-17	0.47	1.15	17.08	--	70.35	27.09	2.56	1.01
17-18	0.47	1.15	18.39	--	67.4	30.08	2.52	1.27
18-19	0.57	1.08	19.47	--	58.05	38.66	3.29	1.63
19-20	0.60	1.08	20.45	--	61.2	34.73	4.07	3.93
20-22	0.58	0.82	22.55	--	69.46	27.75	2.79	1.78
22-24	0.61	1.10	24.46	--	56.58	39.7	3.72	2.24
24-26	0.67	1.33	26.09	--	54.95	40.74	4.31	3.33
26-28	0.67	0.91	27.69	--	40.08	53.81	6.11	4.63
28-30	0.65	0.65	29.38	--	34.98	57.75	7.27	3.36
30-32	0.60	0.70	31.36	--	55.43	40.97	3.6	2.22
32-34	0.61	0.73	33.30	--	57.47	39.06	3.47	2.02
34-36	0.68	0.72	34.85	--	50.35	45.52	4.13	4.23
36-38	0.65	1.12	36.57	--	60.56	36.11	3.33	4.05
38-40	0.54	0.91	38.86	--	74.15	23.58	2.27	2.06
40-45	0.36	0.74	46.84	--	61.16	35.83	3.01	--
45-50	0.43	0.95	53.89	--	55.1	40.98	3.92	1.45
50-55	0.66	1.46	58.18	--	54.81	40.71	4.48	--
55-60	0.67	1.04	62.22	--	47.31	48.29	4.4	4.11
60-65	0.65	0.78	66.54	--	39.84	54.97	5.19	0.23
65-70	0.72	0.74	70.05	--	39.82	54.14	6.04	0.29
70-75	0.65	0.67	74.38	--	57.57	38.75	3.68	0.27
75-80	0.67	0.82	78.51	--	48.36	46.27	5.37	0.23
80-85	0.69	0.82	82.42	--	42.60	51.99	5.41	0.27
85-90	0.70	0.75	--	--	56.92	38.96	4.12	--

Table 5-1A18: Summary physical data for sediment core PBR_04C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.68	0.65	0.79	--	45.58	50.11	4.31	3.15
1-2	0.68	0.65	1.57	--	46.71	48.16	5.13	3.79
2-3	0.58	0.92	2.60	--	46.88	46.89	6.23	3.80
3-4	0.58	0.92	3.63	--	62.53	34.15	3.32	2.56
4-5	0.55	0.94	4.73	--	47.20	47.59	5.21	2.36
5-6	0.55	0.94	5.83	--	43.63	51.12	5.25	2.45
6-7	0.54	1.09	6.96	--	41.03	52.59	6.38	2.03
7-8	0.54	1.09	8.08	--	39.40	55.22	5.38	2.26
8-9	0.56	1.02	9.16	--	45.61	47.84	6.55	2.84
9-10	0.56	1.02	10.24	--	39.50	54.78	5.72	2.37
10-11	0.49	1.15	11.49	--	63.01	33.51	3.48	2.88
11-12	0.49	1.15	12.75	--	64.02	32.60	3.38	1.98
12-13	0.55	1.08	13.87	--	70.57	26.23	3.20	1.76
13-14	0.55	1.08	14.98	--	57.47	39.39	3.14	2.15
14-15	0.58	0.98	16.01	--	63.75	33.02	3.23	4.67
15-16	0.58	0.98	17.03	--	47.86	47.72	4.42	5.50
16-17	0.58	0.97	18.05	--	53.41	41.13	5.46	3.46
17-18	0.59	0.97	19.07	--	52.85	42.33	4.82	1.57
18-19	0.66	0.81	19.92	--	43.24	50.44	6.32	1.76
19-20	0.65	0.81	20.77	--	39.22	53.41	7.37	3.40
20-22	0.60	0.91	22.72	--	48.33	46.15	5.52	3.04
22-24	0.34	1.09	25.97	--	25.22	66.07	8.71	3.20
24-26	0.52	1.09	28.31	--	44.68	49.63	5.69	3.57
26-28	0.56	0.98	30.43	--	51.50	43.27	5.23	3.95
28-30	0.51	1.14	32.86	--	78.91	18.86	2.23	1.94
30-32	0.32	1.38	36.27	--	79.35	19.10	1.55	0.37
32-34	0.40	1.20	39.21	--	75.03	23.11	1.86	3.78
34-36	0.34	1.02	42.41	--	64.14	32.66	3.20	3.91
36-38	0.53	1.10	44.73	--	68.80	28.17	3.03	3.34
38-40	0.54	1.13	46.97	--	77.87	20.64	1.49	5.66
40-45	0.54	1.08	52.44	--	51.31	43.82	4.87	8.98
45-50	0.60	0.89	57.17	--	51.75	43.10	5.15	6.91
50-55	0.69	0.75	60.73	--	22.07	69.03	8.90	14.22
55-60	0.73	0.57	63.73	--	34.33	59.68	5.99	16.34
60-65	0.75	0.36	66.54	--	22.17	66.09	11.74	12.79
65-70	0.75	0.54	69.33	--	37.48	54.36	8.16	16.38
70-75	0.76	0.51	72.04	--	17.81	66.25	15.94	14.22
75-80	0.75	0.52	74.93	--	62.85	32.72	4.43	13.73
80-85	0.60	0.82	79.75	--	29.35	60.15	10.50	4.04
85-90	0.58	0.86	84.55	--	71.71	25.53	2.76	14.02

Table 5-1A19: Summary physical data for sediment core PBR_05A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.56	0.54	1.03	0.00	16.64	74.85	8.51	9.61
1-2	0.58	0.54	2.03	0.00	7.56	83.67	8.77	9.23
2-3	0.63	0.52	2.89	0.00	6.17	84.10	9.73	9.31
3-4	0.78	0.52	3.45	0.00	19.94	73.01	7.05	--
4-5	0.86	0.45	3.79	0.00	10.68	80.44	8.88	9.31
5-6	0.79	0.45	4.28	0.00	16.22	74.13	9.65	9.49
6-7	0.78	0.50	4.80	0.00	9.11	81.77	9.12	8.51
7-8	0.80	0.50	5.26	0.00	6.87	83.38	9.75	8.65
8-9	0.79	0.46	5.75	0.00	4.44	84.50	11.06	8.47
9-10	0.81	0.46	6.20	0.00	5.71	79.13	15.16	9.96
10-11	0.80	0.63	6.68	0.00	5.32	84.73	9.95	10.69
11-12	0.75	0.63	7.30	0.00	19.52	74.31	6.17	--
12-13	0.76	0.46	7.86	0.00	5.44	84.04	10.52	11.08
13-14	0.75	0.46	8.44	0.00	7.70	78.53	13.77	11.02
14-15	0.74	0.48	9.05	0.00	7.84	77.35	14.81	10.40
15-16	0.75	0.48	9.63	0.00	8.47	79.76	11.77	9.95
16-17	0.75	0.49	10.23	0.00	6.91	82.61	10.48	9.88
17-18	0.75	0.49	10.82	0.00	4.79	82.76	12.45	9.75
18-19	0.74	0.47	11.42	0.00	5.96	84.24	9.80	10.27
19-20	0.83	0.47	11.83	0.00	3.84	83.21	12.95	10.23
20-22	0.90	0.46	12.30	0.00	4.60	85.69	9.71	10.42
22-24	0.76	0.50	13.52	0.00	30.80	63.72	5.48	--
24-26	0.78	0.57	14.63	0.00	9.42	80.83	9.75	--
26-28	0.77	0.46	15.72	0.00	21.06	72.24	6.70	8.70
28-30	0.68	0.79	17.25	0.00	27.52	64.84	7.64	6.94
30-32	0.75	0.44	18.43	0.00	21.21	68.01	10.78	8.79
32-34	0.72	0.55	19.75	0.00	36.66	56.09	7.25	9.58
34-36	0.72	0.61	21.05	0.00	21.58	68.74	9.68	10.00
36-38	0.37	1.02	24.03	20.44	30.58	43.39	5.59	8.86
38-40	0.44	1.34	26.75	51.91	28.50	17.77	1.81	3.98
40-45	0.20	1.54	36.54	24.50	66.80	5.90	2.81	2.27
45-50	0.20	1.56	46.54	26.07	63.77	6.39	3.78	0.17
50-55	0.22	1.61	56.24	12.50	54.95	20.69	11.86	0.18
55-60	0.23	1.65	65.88	27.84	67.78	2.96	1.43	0.20
60-65	0.24	1.61	75.37	33.89	46.18	14.34	5.59	0.17
65-70	0.24	1.54	84.84	45.91	51.02	2.14	0.92	0.15
70-75	0.22	1.49	94.63	35.47	60.70	2.72	1.11	0.13
75-80	0.22	1.59	104.31	49.39	46.92	2.08	1.62	0.24
80-85	0.22	1.59	114.00	21.07	76.79	1.71	0.43	0.17
85-90	0.24	1.57	123.45	35.10	61.01	3.00	0.88	0.13

Table 5-1A20: Summary physical data for sediment core PBR_06C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.46	1.00	1.33	0.00	70.02	27.85	2.13	2.27
1-2	0.47	1.00	2.63	0.00	63.59	33.59	2.82	3.13
2-3	0.35	0.79	4.22	0.00	70.06	27.64	2.30	4.04
3-4	0.37	0.79	5.73	0.00	67.58	30.01	2.41	6.17
4-5	0.55	0.88	6.80	0.00	72.70	25.01	2.29	7.14
5-6	0.52	0.88	7.97	0.00	80.48	18.03	1.49	4.28
6-7	0.56	0.75	9.03	0.00	72.52	25.31	2.17	7.11
7-8	0.53	0.75	10.16	0.00	62.95	34.08	2.97	6.90
8-9	0.63	0.85	11.02	0.00	55.47	40.90	3.63	11.63
9-10	0.61	0.85	11.95	0.00	68.13	29.39	2.48	6.42
10-11	0.64	0.85	12.81	0.00	64.57	32.56	2.87	8.44
11-12	0.65	0.85	13.65	0.00	65.81	31.33	2.86	7.73
12-13	0.57	0.58	14.68	0.00	67.61	30.07	2.32	5.95
13-14	0.64	0.58	15.55	0.00	60.40	37.29	2.31	7.17
14-15	0.64	0.56	16.38	0.00	60.27	37.66	2.07	11.48
15-16	0.72	0.56	17.03	0.00	62.21	35.84	1.95	14.25
16-17	0.66	0.82	17.76	0.00	72.33	26.14	1.53	21.26
17-18	0.68	0.82	18.52	0.00	40.44	55.15	4.41	8.73
18-19	0.74	0.54	19.09	0.00	30.84	64.09	5.07	18.56
19-20	0.68	0.54	19.83	0.00	32.81	62.46	4.73	13.21
20-22	0.65	0.50	21.50	0.00	53.50	42.92	3.58	8.39
22-24	0.61	0.82	23.32	0.00	59.54	37.54	2.92	11.26
24-26	0.61	0.79	25.17	0.00	50.30	46.80	2.90	9.30
26-28	0.56	0.80	27.25	0.00	65.46	32.61	1.93	10.21
28-30	0.61	0.95	29.15	0.00	52.21	44.64	3.15	3.64
30-32	0.67	0.75	30.66	0.00	55.82	41.08	3.10	15.00
32-34	0.67	0.64	32.17	0.00	50.51	45.76	3.73	11.69
34-36	0.65	0.69	33.82	0.00	46.91	48.31	4.78	7.41
36-38	0.58	0.86	35.84	0.00	47.12	48.75	4.13	6.96
38-40	0.62	0.80	37.63	12.50	39.48	44.42	3.60	7.94
40-45	0.72	0.65	40.95	0.00	31.73	60.90	7.37	8.75
45-50	0.69	0.62	44.60	0.00	27.65	65.26	7.09	7.97
50-55	0.73	0.57	47.81	0.00	26.72	63.98	9.30	7.90
55-60	0.73	0.63	51.09	0.00	29.98	62.56	7.46	2.51
60-65	0.80	0.37	53.43	0.00	29.82	63.29	6.89	10.89
65-70	0.60	0.85	58.31	0.00	24.01	67.84	8.15	3.98
70-75	0.39	1.28	65.94	0.00	52.82	41.58	5.60	1.12
75-80	0.56	1.24	71.35	0.00	39.23	54.72	6.05	2.41
80-85	0.49	1.06	77.55	0.00	24.22	67.79	7.99	3.31
85-90	0.43	1.11	84.58	0.00	35.79	56.60	7.61	1.55

Table 5-1A21: Summary physical data for sediment core PBR_09A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.62	1.01	0.94	0.00	31.60	62.15	6.25	2.87
1-2	0.55	1.01	2.04	0.00	58.90	37.30	3.80	2.41
2-3	0.57	1.08	3.09	0.00	43.73	50.25	6.02	2.10
3-4	0.53	1.08	4.25	0.00	47.19	47.33	5.48	1.96
4-5	0.58	1.13	5.28	0.00	40.80	53.57	5.63	2.84
5-6	0.61	1.13	6.23	0.00	36.20	56.91	6.89	3.01
6-7	0.70	0.98	6.97	0.00	47.23	47.64	5.13	3.42
7-8	0.69	0.98	7.72	0.00	45.53	48.26	6.21	2.86
8-9	0.68	1.13	8.51	0.00	35.97	56.73	7.30	2.94
9-10	0.67	1.13	9.33	0.00	42.38	51.92	5.70	3.16
10-11	0.60	1.32	10.30	0.00	40.60	53.44	5.96	2.23
11-12	0.57	1.32	11.37	0.00	70.52	26.71	2.77	1.32
12-13	0.40	1.46	12.85	0.00	61.63	34.35	4.02	1.96
13-14	0.30	1.46	14.58	0.00	76.26	21.08	2.66	2.20
14-15	0.27	1.21	16.37	0.00	81.16	17.20	1.64	1.63
15-16	0.26	1.21	18.18	0.00	86.92	11.64	1.44	3.79
16-17	0.29	1.33	19.93	0.00	82.50	15.61	1.89	2.34
17-18	0.20	1.33	21.91	0.00	79.25	18.77	1.98	0.92
18-19	0.29	1.15	23.67	0.00	83.73	14.60	1.67	0.40
19-20	0.37	1.15	25.23	0.00	80.00	17.70	2.30	2.66
20-22	0.40	3.46	28.19	0.00	91.79	7.39	0.82	2.64
22-24	0.40	1.47	31.14	0.00	93.99	5.43	0.58	2.15
24-26	0.39	1.11	34.15	0.00	88.41	10.18	1.41	0.97
26-28	0.49	1.18	36.65	0.00	89.85	9.43	0.72	3.05
28-30	0.45	0.92	39.37	13.61	72.33	12.79	1.27	2.32
30-32	0.49	0.72	41.89	4.53	72.25	21.04	2.12	2.23
32-34	0.49	1.04	44.40	0.00	73.00	23.85	3.15	3.03
34-36	0.41	1.16	47.36	3.87	64.88	28.66	2.60	1.04
36-38	0.43	0.97	50.17	2.26	74.97	20.62	2.15	2.83
38-40	0.53	0.79	52.44	10.51	61.70	25.61	2.17	5.94
40-45	0.39	1.12	59.93	8.10	68.95	19.90	3.05	1.70
45-50	0.47	1.25	66.54	0.00	69.64	27.04	3.32	1.20
50-55	0.52	1.17	72.42	0.00	50.68	44.98	4.34	2.60
55-60	0.44	1.26	79.32	0.00	69.06	27.13	3.81	1.91
60-65	0.43	1.11	86.22	6.45	58.83	30.20	4.52	5.49
65-70	0.42	1.16	93.34	27.50	55.28	15.15	2.07	3.30
70-75	0.43	1.01	100.34	4.91	82.22	11.22	1.65	1.79
75-80	0.41	0.96	107.55	0.00	82.93	14.84	2.23	3.45
80-85	0.55	0.90	113.03	0.00	82.61	15.30	2.09	4.00
85-90	0.51	0.87	119.04	0.00	71.37	24.00	4.63	3.17

Table 5-1A22: Summary physical data for sediment core PBR_10A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.71	0.85	0.73	--	23.62	67.68	8.70	--
1-2	0.72	0.85	1.42	--	23.50	67.20	9.30	--
2-3	0.67	0.79	2.24	--	31.43	60.88	7.69	--
3-4	0.74	0.79	2.89	--	30.67	61.77	7.56	--
4-5	0.71	0.79	3.61	--	34.53	59.70	5.77	--
5-6	0.71	0.79	4.33	--	30.36	61.90	7.74	--
6-7	0.75	0.66	4.96	--	22.43	68.27	9.30	--
7-8	0.73	0.66	5.63	--	25.73	66.69	7.58	--
8-9	0.79	0.56	6.16	--	5.42	82.66	11.92	--
9-10	0.79	0.56	6.69	--	6.47	82.40	11.13	--
10-11	0.77	0.52	7.27	--	7.20	80.71	12.09	--
11-12	0.77	0.52	7.84	--	6.66	81.12	12.22	--
12-13	0.75	0.56	8.47	--	7.84	84.37	7.79	--
13-14	0.76	0.56	9.08	--	7.34	81.16	11.50	--
14-15	0.72	0.62	9.78	--	7.40	82.76	9.84	--
15-16	0.73	0.62	10.45	--	12.02	79.24	8.74	--
16-17	0.76	0.52	11.04	--	9.75	80.52	9.73	--
17-18	0.80	0.52	11.54	--	7.79	81.37	10.84	--
18-19	0.79	0.51	12.06	--	4.58	82.21	13.21	--
19-20	0.79	0.51	12.57	--	6.71	80.41	12.88	--
20-22	0.79	0.64	13.62	--	6.02	83.49	10.49	--
22-24	0.78	0.61	14.72	--	13.17	77.19	9.64	--
24-26	0.74	0.60	16.00	--	15.34	74.44	10.22	--
26-28	0.79	0.57	17.05	--	8.56	82.11	9.33	--
28-30	0.72	0.64	18.46	--	17.85	75.40	6.75	--
30-32	0.82	0.49	19.38	--	23.27	70.27	6.46	--
32-34	0.79	0.57	20.41	--	13.14	79.02	7.84	--
34-36	0.84	0.61	21.19	--	31.20	62.93	5.87	--
36-38	0.80	0.58	22.19	--	17.60	74.11	8.29	--
38-40	0.68	0.59	23.80	--	37.41	56.26	6.33	--
40-45	0.55	1.14	29.47	--	58.81	37.10	4.09	--
45-50	0.80	0.60	32.03	--	10.24	84.21	5.55	--
50-55	0.60	0.62	37.04	--	36.75	57.93	5.32	--
55-60	0.56	1.10	42.49	--	25.16	66.89	7.95	--
60-65	0.59	1.19	47.58	--	22.14	69.29	8.57	--
65-70	0.66	1.08	51.81	--	15.95	73.28	10.77	--
70-75	0.63	0.91	56.42	--	18.52	71.63	9.85	--
75-80	0.61	0.79	61.28	--	21.28	73.17	5.55	--
80-85	0.57	1.08	66.68	--	28.03	64.67	7.30	--
85-90	0.56	1.06	72.22	--	24.86	67.20	7.94	--

Table 5-1A23: Summary physical data for sediment core PBR_11B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.70	0.66	0.71	0.00	13.43	77.79	8.78	6.25
1-2	0.74	0.66	1.34	0.00	10.91	79.97	9.12	6.72
2-3	0.74	0.63	1.96	0.00	16.69	77.56	5.75	7.82
3-4	0.79	0.63	2.45	23.58	10.05	60.06	6.31	6.99
4-5	0.77	0.77	3.00	0.00	12.05	76.27	11.68	6.28
5-6	0.72	0.77	3.66	0.00	11.43	80.03	8.54	5.84
6-7	0.71	0.73	4.36	0.00	9.51	82.29	8.20	5.63
7-8	0.71	0.73	5.07	0.00	22.83	70.11	7.06	5.24
8-9	0.75	0.66	5.68	0.00	24.16	69.77	6.07	5.69
9-10	0.69	0.66	6.43	0.00	16.86	76.93	6.21	5.31
10-11	0.70	0.75	7.16	0.00	13.35	79.54	7.11	4.25
11-12	0.73	0.75	7.83	0.00	19.50	73.43	7.07	4.53
12-13	0.73	0.74	8.48	0.00	18.48	75.14	6.38	6.15
13-14	0.71	0.74	9.17	0.00	21.96	72.07	5.97	6.44
14-15	0.71	0.81	9.87	0.00	15.37	77.96	6.67	5.23
15-16	0.73	0.81	10.52	0.00	17.12	75.48	7.40	5.58
16-17	0.73	0.94	11.17	0.00	17.39	75.63	6.98	6.07
17-18	0.67	0.94	11.95	0.00	43.34	50.83	5.83	6.76
18-19	0.64	0.68	12.79	0.00	40.89	53.31	5.80	7.78
19-20	0.76	0.68	13.36	0.00	45.56	49.91	4.53	11.68
20-22	0.77	0.66	14.41	0.00	38.51	56.11	5.38	10.40
22-24	0.75	0.68	15.57	0.00	17.56	73.81	8.63	8.17
24-26	0.73	0.80	16.84	0.00	19.45	72.38	8.17	6.96
26-28	0.70	0.77	18.29	0.00	23.34	70.49	6.17	6.46
28-30	0.72	0.72	19.62	0.00	22.29	71.56	6.15	8.68
30-32	0.74	0.74	20.88	0.00	16.14	75.83	8.03	7.86
32-34	0.74	0.63	22.13	0.00	14.29	78.62	7.09	7.38
34-36	0.72	0.70	23.46	0.00	13.38	78.43	8.19	7.60
36-38	0.72	0.73	24.81	0.00	12.19	79.06	8.75	7.50
38-40	0.69	0.73	26.27	0.00	11.35	79.64	9.01	6.64
40-45	0.70	0.70	29.79	0.00	29.40	64.69	5.91	9.20
45-50	0.37	1.36	37.60	37.74	45.86	14.99	1.41	1.99
50-55	0.35	1.01	45.50	0.00	61.98	34.16	3.86	3.39
55-60	0.27	1.51	54.58	40.68	43.59	14.42	1.31	0.78
60-63	0.44	1.33	58.73	0.00	40.68	54.19	5.13	2.12

Table 5-1A24: Summary physical data for sediment core PBR_13B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.88	0.66	0.29	--	20.11	70.48	9.41	3.55
1-2	0.91	0.66	0.50	--	58.37	37.39	4.24	4.06
2-3	0.90	1.32	0.75	--	51.57	43.27	5.16	0.94
3-4	0.53	1.32	1.91	--	43.57	53.62	2.81	1.65
4-5	0.47	1.49	3.23	--	36.99	59.94	3.07	0.96
5-6	0.43	1.49	4.64	--	61.19	36.10	2.71	0.53
6-7	0.50	1.23	5.87	--	49.56	46.98	3.46	3.21
7-8	0.56	1.23	6.96	--	58.34	38.64	3.02	2.75
8-9	0.49	1.22	8.22	--	48.08	48.07	3.85	1.40
9-10	0.44	1.22	9.60	--	40.95	54.66	4.39	1.60
10-11	0.46	1.37	10.93	--	42.74	51.04	6.22	1.72
11-12	0.43	1.37	12.35	--	37.74	56.07	6.19	1.22
12-13	0.40	1.43	13.84	--	53.79	41.33	4.88	0.82
13-14	0.40	1.43	15.33	--	53.90	41.60	4.50	0.81
14-15	0.44	1.44	16.73	--	50.14	45.88	3.98	1.14
15-16	0.43	1.44	18.15	--	19.87	72.77	7.36	1.29
16-17	0.38	1.44	19.68	--	43.50	53.08	3.42	0.77
17-18	0.39	1.44	21.20	--	52.90	43.02	4.08	0.40
18-19	0.28	1.48	23.00	--	56.25	41.09	2.66	0.25
19-20	0.35	1.48	24.63	--	53.67	41.34	4.99	0.35
20-22	0.39	1.50	27.65	--	30.33	66.10	3.57	0.54
22-24	0.42	1.41	30.56	--	35.99	58.74	5.27	0.50
24-26	0.49	1.33	33.10	--	10.70	84.12	5.18	1.43
26-28	0.44	1.39	35.90	--	22.63	69.80	7.57	1.06
28-30	0.42	1.44	38.79	--	20.88	72.60	6.52	0.65
30-32	0.41	1.53	41.70	--	34.82	60.95	4.23	0.64
32-34	0.45	1.34	44.44	--	35.18	61.35	3.47	1.07
34-36	0.45	1.43	47.18	--	36.56	60.37	3.07	0.90
36-38	0.57	0.93	49.32	--	13.02	81.09	5.89	--
38-40	0.53	1.11	51.66	--	10.22	84.89	4.89	2.02
40-45	0.52	1.16	57.57	--	24.87	71.07	4.06	1.80
45-50	0.43	1.36	64.71	--	16.84	77.19	5.97	0.66
50-55	0.45	1.47	71.50	--	27.08	67.98	4.94	0.80
55-60	0.48	1.34	77.89	--	41.93	53.68	4.39	1.27
60-65	0.56	0.95	83.32	--	28.22	66.05	5.73	2.17
65-70	0.58	1.08	88.41	--	38.98	53.93	7.09	3.34
70-75	0.59	1.10	93.45	--	28.58	64.49	6.93	3.83
75-80	0.62	0.89	97.99	--	27.22	65.52	7.26	5.01
80-85	0.65	0.86	102.22	--	30.50	62.07	7.43	4.78
85-90	0.61	1.02	106.95	--	30.55	60.66	8.79	3.13

Table 5-1A25: Summary physical data for sediment core PBR_14RC_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.70	0.67	0.71	--	14.53	76.16	9.31	9.10
1-2	0.74	0.67	1.32	--	6.14	82.70	11.16	8.38
2-3	0.77	0.49	1.88	--	5.08	82.71	12.21	8.43
3-4	0.77	0.49	2.41	--	5.20	86.13	8.67	8.84
4-5	0.79	0.49	2.91	--	4.78	82.98	12.24	9.45
5-6	0.79	0.49	3.40	--	5.43	82.94	11.63	9.87
6-7	0.79	0.49	3.90	--	3.18	80.10	16.72	8.94
7-8	0.78	0.49	4.42	--	4.28	87.53	8.19	9.52
8-9	0.79	0.51	4.92	--	3.19	81.03	15.78	10.29
9-10	0.79	0.51	5.41	--	2.41	79.25	18.34	9.74
10-11	0.78	0.53	5.92	--	4.60	85.96	9.44	9.66
11-12	0.79	0.53	6.41	--	2.40	85.74	11.86	9.31
12-13	0.78	0.50	6.94	--	2.64	83.34	14.02	9.12
13-14	0.79	0.50	7.43	--	2.19	83.00	14.81	9.22
14-15	0.78	0.54	7.96	--	4.03	84.19	11.78	8.67
15-16	0.78	0.54	8.48	--	3.51	83.50	12.99	8.10
16-17	0.78	0.62	9.00	--	7.02	78.76	14.22	10.31
17-18	0.72	0.62	9.68	--	16.19	75.84	7.97	6.09
18-19	0.74	0.54	10.30	--	17.52	72.76	9.72	7.19
19-20	0.74	0.54	10.91	--	13.23	73.58	13.19	8.52
20-22	0.69	0.61	12.38	--	36.39	57.62	5.99	8.29
22-24	0.62	0.88	14.22	--	49.66	45.40	4.94	6.84
24-26	0.75	1.24	15.39	--	19.69	69.45	10.86	9.45
26-28	0.81	0.54	16.25	--	18.21	71.40	10.39	12.25
28-30	0.62	1.10	18.11	--	46.88	48.92	4.20	3.24
30-32	0.55	1.09	20.33	--	53.25	43.77	2.98	2.05
32-34	0.71	0.64	21.74	--	41.52	52.59	5.89	6.57
34-36	0.72	0.70	23.09	--	42.28	51.16	6.56	5.70
36-38	0.70	0.70	24.51	--	30.30	62.87	6.83	9.28
38-40	0.75	0.77	25.69	--	33.72	59.30	6.98	9.45
40-45	0.63	0.82	30.00	--	31.36	62.18	6.46	10.98
45-50	0.73	0.65	33.20	--	14.18	78.02	7.80	10.00
50-54	0.71	0.77	35.92	--	26.93	67.01	6.06	8.55

Table 5-1A26: Summary physical data for sediment core PBR_16A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.73	0.60	0.65	0.00	20.80	70.00	9.20	6.47
1-2	0.79	0.60	1.14	0.00	9.28	79.10	11.62	8.83
2-3	0.74	0.72	1.76	0.00	26.37	63.83	9.80	5.73
3-4	0.75	0.72	2.36	0.00	17.38	72.51	10.11	9.05
4-5	0.80	0.51	2.82	0.00	5.39	80.72	13.89	10.58
5-6	0.78	0.51	3.33	0.00	30.92	60.91	8.17	8.83
6-7	0.82	0.58	3.75	0.00	6.76	79.15	14.09	11.91
7-8	0.74	0.58	4.36	0.00	17.83	72.28	9.89	11.48
8-9	0.80	0.42	4.82	0.00	6.57	78.70	14.73	11.55
9-10	0.82	0.42	5.24	0.00	8.28	81.75	9.97	12.17
10-11	0.74	0.41	5.85	0.00	17.57	72.81	9.62	8.20
11-12	0.81	0.41	6.29	0.00	26.34	63.67	9.99	10.65
12-13	0.80	0.46	6.75	0.00	9.02	78.08	12.90	14.34
13-14	0.79	0.46	7.22	0.00	8.63	76.34	15.03	13.80
14-15	0.70	0.53	7.92	0.00	14.20	71.26	14.54	9.53
15-16	0.73	0.53	8.56	0.00	27.55	63.23	9.22	9.59
16-17	0.80	0.49	9.02	0.00	12.84	70.86	16.30	12.17
17-18	0.74	0.49	9.61	0.00	23.92	64.79	11.29	13.00
18-19	0.81	0.46	10.07	0.00	11.91	79.59	8.50	9.54
19-20	0.73	0.46	10.69	0.00	20.05	72.55	7.40	10.82
20-22	0.74	0.61	11.92	26.14	25.90	43.31	4.65	9.23
22-24	0.71	0.58	13.28	17.17	36.51	40.84	5.48	8.53
24-26	0.75	0.61	14.47	0.00	22.71	70.46	6.83	8.81
26-28	0.53	1.11	16.81	0.00	53.83	42.01	4.16	2.51
28-30	0.35	1.39	20.03	0.00	70.38	21.51	8.11	0.81
30-32	0.65	0.71	21.67	0.00	22.23	63.23	14.54	8.20
32-34	0.50	1.26	24.13	24.54	68.67	5.97	0.82	3.97
34-36	0.39	1.39	27.16	15.86	66.93	14.90	2.31	0.61
36-38	0.30	1.56	30.61	10.73	67.63	18.67	2.97	1.42
38-40	0.20	1.40	34.58	13.64	77.45	7.64	1.27	0.52
40-45	0.20	1.52	44.55	16.39	75.21	6.92	1.48	0.05
45-50	0.20	1.48	54.58	2.26	89.09	7.42	1.23	0.06
50-55	0.23	1.58	64.20	20.23	70.91	7.42	1.44	0.06
55-60	0.23	1.46	73.84	0.00	85.56	12.71	1.73	0.00
60-65	0.29	1.26	82.72	0.00	89.30	9.25	1.45	0.00
65-70	0.19	1.41	92.80	29.96	63.51	5.75	0.78	0.00
70-75	0.19	1.71	102.90	32.94	60.78	5.63	0.65	0.00
75-80	0.30	1.49	111.60	0.00	87.12	11.43	1.45	0.00
80-85	0.31	1.56	120.27	0.00	92.71	6.57	0.72	0.00
85-90	0.29	1.55	129.16	0.00	89.66	9.37	0.97	0.00

Table 5-1A27: Summary physical data for sediment core PBR_17A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.79	0.43	0.51	--	6.21	85.94	7.85	6.47
1-2	0.81	0.43	0.96	--	7.20	81.32	11.48	8.83
2-3	0.81	0.36	1.42	--	6.23	80.93	12.84	5.73
3-4	0.84	0.36	1.79	--	5.12	82.07	12.81	9.05
4-5	0.84	0.36	2.18	--	5.12	80.78	14.10	10.58
5-6	0.85	0.36	2.53	--	4.40	78.22	17.38	8.83
6-7	0.86	0.29	2.85	--	7.10	82.21	10.69	11.91
7-8	0.86	0.29	3.18	--	9.52	81.11	9.37	11.48
8-9	0.87	0.34	3.48	--	8.00	81.06	10.94	11.55
9-10	0.85	0.34	3.84	--	7.28	82.69	10.03	12.17
10-11	0.83	0.44	4.24	--	6.19	85.55	8.26	8.20
11-12	0.82	0.44	4.67	--	4.22	86.40	9.38	10.65
12-13	0.80	0.44	5.13	--	9.23	82.06	8.71	14.34
13-14	0.81	0.44	5.58	--	12.78	80.53	6.69	13.80
14-15	0.80	0.47	6.04	--	6.97	85.81	7.22	9.53
15-16	0.81	0.47	6.48	--	8.24	84.39	7.37	9.59
16-17	0.82	0.49	6.90	--	7.74	82.38	9.88	12.17
17-18	0.81	0.49	7.33	--	5.03	85.86	9.11	13.00
18-19	0.81	0.46	7.77	--	6.21	80.94	12.85	9.54
19-20	0.79	0.46	8.25	--	12.28	78.68	9.04	10.82
20-22	0.79	0.47	9.23	--	27.35	65.86	6.79	9.23
22-24	0.81	0.48	10.14	--	15.80	76.54	7.66	8.53
24-26	0.82	0.45	10.98	--	3.54	80.38	16.08	8.81
26-28	0.81	0.47	11.91	--	5.20	80.86	13.94	2.51
28-30	0.84	0.39	12.69	--	4.42	82.01	13.57	0.81
30-32	0.82	0.39	13.55	--	12.07	78.79	9.14	8.20
32-34	0.83	0.45	14.39	--	3.63	79.54	16.83	3.97
34-36	0.84	0.41	15.20	--	21.54	70.29	8.17	0.61
36-38	0.81	0.41	16.13	--	7.32	80.22	12.46	1.42
38-40	0.79	0.58	17.16	--	3.79	85.06	11.15	0.52
40-45	0.79	0.61	19.84	--	9.40	77.47	13.13	0.05
45-50	0.71	0.67	23.46	--	47.01	48.73	4.26	0.06
50-55	0.68	0.88	27.46	--	41.30	54.03	4.67	0.06
55-60	0.77	0.72	30.37	--	19.91	71.84	8.25	0.00
60-65	0.82	0.45	32.67	--	13.99	75.21	10.80	0.00
65-70	0.82	0.45	34.87	--	6.22	80.44	13.34	0.00
70-75	0.81	0.48	37.28	--	5.50	83.73	10.77	0.00
75-80	0.71	0.68	40.94	--	18.23	73.85	7.92	0.00
80-85	0.71	0.70	44.58	--	21.52	70.89	7.59	0.00
85-90	0.67	0.79	48.71	--	7.87	84.14	7.99	0.00

Table 5-1A28: Summary physical data for sediment core PBR_18B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.69	0.73	0.74	--	21.35	69.26	9.39	5.66
1-2	0.69	0.73	1.47	--	11.84	77.05	11.11	5.86
2-3	0.72	0.62	2.13	--	13.34	77.29	9.37	6.55
3-4	0.72	0.62	2.80	--	23.52	66.73	9.75	6.10
4-5	0.64	0.81	3.67	--	27.41	64.57	8.02	3.51
5-6	0.64	0.81	4.55	--	18.38	73.90	7.72	5.26
6-7	0.72	0.63	5.22	--	22.49	68.80	8.71	5.43
7-8	0.72	0.63	5.88	--	14.83	76.11	9.06	6.45
8-9	0.75	0.57	6.48	--	19.05	70.95	10.00	6.69
9-10	0.75	0.57	7.09	--	17.60	73.42	8.98	7.75
10-11	0.75	0.56	7.67	--	18.48	71.53	9.99	10.16
11-12	0.75	0.56	8.26	--	16.30	73.79	9.91	9.52
12-13	0.76	0.54	8.84	--	15.37	73.38	11.25	9.24
13-14	0.76	0.54	9.41	--	16.02	73.54	10.44	6.78
14-15	0.71	0.64	10.10	--	22.26	71.24	6.50	6.94
15-16	0.71	0.64	10.79	--	17.04	75.03	7.93	9.45
16-17	0.71	0.65	11.46	--	11.65	77.49	10.86	9.78
17-18	0.71	0.65	12.14	--	17.57	72.38	10.05	9.19
18-19	0.76	0.53	12.70	--	18.07	71.55	10.38	9.04
19-20	0.76	0.53	13.26	--	7.54	81.10	11.36	9.10
20-22	0.70	0.69	14.73	--	51.54	43.78	4.68	3.34
22-24	0.51	1.10	17.16	--	63.56	33.95	2.49	0.92
24-26	0.48	1.19	19.75	--	54.29	41.34	4.37	1.15
26-28	0.44	1.28	22.47	--	25.65	68.07	6.28	4.12
28-30	0.42	1.23	25.28	--	30.86	62.99	6.15	4.79
30-32	0.64	0.83	27.02	--	23.78	69.70	6.52	4.78
32-34	0.63	0.87	28.83	--	28.61	65.21	6.18	5.30
34-36	0.63	0.89	30.65	--	31.48	63.47	5.05	4.54
36-38	0.55	1.08	32.83	--	31.60	64.15	4.25	3.16
38-40	0.50	0.92	35.26	--	27.83	67.40	4.77	4.30
40-45	0.59	0.98	40.26	--	28.94	66.01	5.05	4.17
45-50	0.55	1.12	45.77	--	20.82	71.93	7.25	3.46
50-55	0.47	1.38	52.35	--	40.35	55.06	4.59	2.05
55-60	0.52	1.20	58.26	--	24.91	68.42	6.67	2.67
60-65	0.50	1.26	64.46	--	19.83	73.38	6.79	2.45
65-70	0.50	1.24	70.54	--	23.69	69.97	6.34	2.58
70-75	0.47	1.37	77.09	--	29.83	65.11	5.06	2.69
75-80	0.51	1.21	83.16	--	25.73	67.76	6.51	2.81
80-85	0.52	1.19	89.04	--	25.44	67.83	6.73	2.99
85-90	0.53	1.11	94.80	--	24.88	68.14	6.98	3.20

Table 5-1A29: Summary physical data for sediment core PBR_19A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.66	1.21	0.82	0.00	15.07	75.90	9.03	2.91
1-2	0.78	1.21	1.34	0.00	10.91	83.77	5.32	7.39
2-3	0.77	1.16	1.89	0.00	10.58	79.30	10.12	8.36
3-4	0.75	1.16	2.46	0.00	21.68	73.15	5.17	11.80
4-5	0.76	1.19	3.00	0.00	4.49	87.31	8.20	13.53
5-6	0.80	1.19	3.45	0.00	6.54	82.89	10.57	12.94
6-7	0.77	1.08	3.98	0.00	13.02	81.19	5.79	11.59
7-8	0.78	1.08	4.49	0.00	8.89	75.54	15.57	11.32
8-9	0.77	1.19	5.03	0.00	16.38	76.58	7.04	10.93
9-10	0.78	1.19	5.55	0.00	14.13	78.14	7.73	10.44
10-11	0.77	1.00	6.08	0.00	17.08	74.32	8.60	10.64
11-12	0.79	1.00	6.57	0.00	8.13	81.87	10.00	11.27
12-13	0.79	1.06	7.06	0.00	14.48	76.95	8.57	11.02
13-14	0.79	1.06	7.55	0.00	5.03	84.35	10.62	10.81
14-15	0.78	1.22	8.08	0.00	13.71	78.08	8.21	10.06
15-16	0.79	1.22	8.57	0.00	8.12	78.71	13.17	9.08
16-17	0.69	0.94	9.29	0.00	9.77	80.57	9.66	9.31
17-18	0.82	0.94	9.72	0.00	24.79	68.80	6.41	7.83
18-19	0.78	1.30	10.22	0.00	26.13	67.58	6.29	13.15
19-20	0.77	1.30	10.74	0.00	26.78	67.08	6.14	12.89
20-22	0.68	1.04	12.20	0.00	19.21	74.21	6.58	12.78
22-24	0.77	0.96	13.25	0.00	8.87	78.88	12.25	12.76
24-26	0.77	1.12	14.32	0.00	10.27	81.98	7.75	8.57
26-28	0.75	1.08	15.48	0.00	12.29	75.36	12.35	8.95
28-30	0.76	1.26	16.63	0.00	18.39	72.65	8.96	8.55
30-32	0.59	1.35	18.59	50.62	23.37	23.44	2.57	8.40
32-34	0.76	1.09	19.72	0.00	17.82	75.05	7.13	8.24
34-36	0.77	0.94	20.80	0.00	59.65	36.58	3.77	8.73
36-38	0.78	1.16	21.84	0.00	17.74	75.04	7.22	9.28
38-40	0.75	1.37	22.99	0.00	23.12	71.41	5.47	11.00
40-45	0.75	1.17	25.88	0.00	18.64	74.28	7.08	12.51
45-50	0.80	1.19	28.22	0.00	11.86	80.99	7.15	11.53
50-55	0.78	1.31	30.76	77.30	1.76	19.39	1.55	11.43
55-60	0.34	1.10	38.84	56.23	8.93	32.26	2.58	3.90
60-62	0.54	0.95	41.09	16.03	12.52	64.45	7.00	3.56

Table 5-1A30: Summary physical data for sediment core PBR_20A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.39	0.94	1.47	0.00	48.64	46.44	4.92	5.37
1-2	0.50	0.94	2.69	0.00	31.42	63.46	5.12	4.24
2-3	0.61	0.80	3.64	0.00	32.64	63.05	4.31	3.16
3-4	0.58	0.80	4.65	0.00	33.14	61.99	4.87	3.31
4-5	0.49	0.91	5.91	0.00	34.06	60.72	5.22	2.69
5-6	0.49	0.91	7.16	12.21	31.74	50.49	5.56	2.30
6-7	0.57	0.90	8.21	0.00	26.25	65.91	7.84	3.16
7-8	0.61	0.90	9.15	0.00	27.63	64.97	7.40	3.18
8-9	0.60	0.80	10.13	0.00	28.86	64.51	6.63	4.25
9-10	0.60	0.80	11.12	0.00	34.61	58.99	6.40	3.49
10-11	0.58	0.95	12.13	0.00	50.49	45.00	4.51	3.58
11-12	0.61	0.95	13.07	0.00	52.27	42.88	4.85	4.72
12-13	0.61	0.96	14.02	0.00	38.93	54.60	6.47	5.52
13-14	0.58	0.96	15.04	0.00	31.25	60.50	8.25	3.56
14-15	0.65	0.77	15.88	0.00	39.97	53.17	6.86	6.68
15-16	0.70	0.77	16.60	0.00	30.44	62.66	6.90	7.13
16-17	0.67	0.77	17.38	0.00	28.47	64.54	6.99	6.99
17-18	0.67	0.77	18.15	0.00	25.04	65.89	9.07	8.47
18-19	0.68	0.90	18.92	16.85	17.53	58.91	6.71	7.02
19-20	0.67	0.90	19.72	0.00	21.39	72.34	6.27	6.16
20-22	0.39	0.99	22.68	0.00	35.30	58.05	6.65	5.78
22-24	0.45	1.01	25.34	0.00	42.27	51.81	5.92	5.07
24-26	0.44	0.78	28.05	0.00	43.29	52.16	4.55	5.63
26-28	0.44	1.07	30.75	0.00	23.45	67.66	8.89	5.81
28-30	0.52	0.91	33.05	0.00	32.40	60.71	6.89	5.51
30-32	0.50	0.36	35.14	0.00	36.22	58.54	5.24	24.19
32-34	0.55	0.33	36.94	0.00	34.83	61.33	3.84	30.93
34-36	0.47	0.48	39.31	0.00	38.52	57.70	3.78	16.77
36-38	0.62	0.70	41.10	0.00	14.25	77.28	8.47	9.60
38-40	0.51	0.60	43.41	0.00	21.88	69.94	8.18	8.64
40-45	0.52	0.73	49.16	0.00	10.92	77.61	11.47	7.94
45-50	0.61	0.84	53.87	0.00	24.46	67.44	8.10	4.48
50-55	0.49	1.09	60.19	0.00	17.89	72.37	9.74	2.63
55-60	0.49	1.15	66.52	0.00	18.77	73.73	7.50	2.38
60-65	0.50	1.14	72.64	0.00	23.86	70.41	5.73	2.75
65-70	0.46	1.24	79.27	12.29	23.60	58.80	5.31	2.24
70-75	0.36	1.22	87.13	27.20	27.11	40.53	5.16	2.62
75-80	0.45	1.37	94.00	0.00	2.13	84.39	13.48	--
80-85	0.43	1.39	101.01	0.00	47.13	46.06	6.81	2.24
85-90	0.40	1.38	108.52	0.00	32.32	60.32	7.36	--

Table 5-1A31: Summary physical data for sediment core PBR_21B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.52	1.15	1.19	0.00	36.41	59.45	4.14	3.27
1-2	0.51	1.15	2.37	0.00	35.24	60.08	4.68	4.35
2-3	0.66	0.80	3.19	14.75	39.60	42.03	3.62	6.48
3-4	0.66	0.80	4.01	0.00	56.53	39.63	3.84	4.20
4-5	0.56	1.03	5.07	0.00	34.01	60.12	5.87	5.55
5-6	0.56	1.03	6.14	0.00	31.78	62.55	5.67	3.32
6-7	0.61	0.94	7.10	18.38	29.56	47.90	4.15	3.54
7-8	0.60	0.94	8.06	0.00	27.62	65.32	7.06	5.61
8-9	0.55	1.08	9.16	0.00	30.77	63.82	5.41	3.22
9-10	0.54	1.08	10.26	0.00	39.24	55.53	5.23	6.14
10-11	0.61	0.91	11.21	0.00	35.48	59.02	5.50	3.87
11-12	0.61	0.91	12.17	11.54	40.13	45.32	3.02	4.52
12-13	0.69	0.69	12.90	0.00	32.99	61.58	5.43	6.99
13-14	0.69	0.69	13.64	0.00	33.34	60.50	6.16	6.64
14-15	0.65	0.82	14.49	0.00	29.84	64.83	5.33	5.18
15-16	0.65	0.82	15.35	4.02	25.29	65.19	5.50	5.55
16-17	0.56	1.04	16.43	0.00	27.40	66.51	6.09	4.70
17-18	0.56	1.04	17.51	0.00	30.27	63.43	6.30	4.59
18-19	0.46	1.22	18.80	0.00	25.59	67.79	6.62	5.18
19-20	0.47	1.22	20.11	0.00	50.27	45.82	3.91	3.71
20-22	0.52	1.13	22.42	0.00	33.31	61.58	5.11	4.82
22-24	0.52	1.18	24.76	0.00	38.66	56.97	4.37	2.83
24-26	0.50	1.22	27.21	0.00	27.99	66.24	5.77	3.57
26-28	0.45	1.34	29.85	0.00	30.33	63.51	6.16	5.35
28-30	0.58	1.02	31.93	0.00	39.45	56.75	3.80	2.85
30-32	0.51	1.23	34.35	0.00	35.57	61.16	3.27	2.37
32-34	0.47	1.30	36.99	0.00	39.42	57.28	3.30	1.88
34-36	0.54	1.08	39.23	0.00	24.06	70.16	5.78	2.38
36-38	0.60	0.98	41.15	0.00	29.90	65.33	4.77	4.71
38-40	0.60	0.98	43.12	0.00	55.30	43.24	1.46	1.99
40-45	0.56	1.07	48.52	0.00	27.52	67.31	5.17	2.98
45-50	0.59	1.05	53.55	0.00	41.90	55.57	2.53	2.97
50-55	0.51	1.24	59.51	0.00	20.70	72.29	7.01	3.47
55-60	0.59	0.97	64.51	0.00	24.65	69.30	6.05	5.22
60-65	0.61	0.98	69.22	0.00	16.46	74.93	8.61	4.58
65-70	0.62	0.95	73.83	0.00	34.66	60.37	4.97	3.50
70-75	0.60	1.01	78.77	0.00	30.15	64.12	5.73	3.62
75-80	0.57	1.10	83.98	0.00	34.13	61.32	4.55	3.41
80-85	0.62	0.96	88.54	0.00	24.09	68.25	7.66	4.81
85-90	0.53	1.22	94.39	0.00	36.80	59.00	4.20	2.18

Table 5-1A32: Summary physical data for sediment core PBR_21C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.54	1.08	1.12	--	23.23	68.67	8.10	2.51
1-2	0.55	1.08	2.24	--	37.06	58.01	4.93	2.45
2-3	0.55	1.13	3.37	--	23.51	69.36	7.13	--
3-4	0.54	1.13	4.49	--	36.39	59.13	4.48	3.40
4-5	0.56	1.07	5.58	--	29.68	65.64	4.68	2.94
5-6	0.56	1.07	6.68	--	31.95	61.56	6.49	--
6-7	0.63	0.91	7.58	--	30.78	63.82	5.40	3.92
7-8	0.63	0.91	8.49	--	33.15	61.88	4.97	3.28
8-9	0.67	0.77	9.30	--	34.40	61.64	3.96	4.81
9-10	0.67	0.77	10.12	--	20.00	72.17	7.83	--
10-11	0.58	0.99	11.17	--	33.22	61.81	4.97	--
11-12	0.57	0.99	12.19	--	32.84	61.36	5.80	5.71
12-13	0.66	0.74	13.01	--	29.13	63.74	7.13	7.17
13-14	0.67	0.74	13.84	--	24.59	68.66	6.75	--
14-15	0.72	0.61	14.48	--	24.15	69.61	6.24	10.53
15-16	0.74	0.61	15.14	--	23.18	70.45	6.37	--
16-17	0.71	0.67	15.87	--	20.24	71.50	8.26	--
17-18	0.70	0.67	16.59	--	19.51	71.93	8.56	7.56
18-19	0.53	1.02	17.76	--	26.06	67.24	6.70	--
19-20	0.52	1.02	18.93	--	31.36	63.11	5.53	3.76
20-22	0.59	0.96	20.94	--	23.73	69.07	7.20	4.61
22-24	0.61	0.91	22.91	--	27.91	67.36	4.73	--
24-26	0.55	0.99	25.16	--	30.75	63.99	5.26	--
26-28	0.60	0.98	27.14	--	23.86	69.78	6.36	--
28-30	0.58	0.96	29.18	--	19.09	73.97	6.94	5.32
30-32	0.54	1.25	31.47	--	18.25	74.54	7.21	--
32-34	0.50	1.16	33.96	--	18.39	75.12	6.49	--
34-36	0.53	1.10	36.31	--	27.65	68.71	3.64	--
36-38	0.54	1.14	38.63	--	27.08	67.84	5.08	--
38-40	0.44	1.28	41.42	--	20.50	74.48	5.02	1.66
40-45	0.55	0.97	47.00	--	36.75	59.47	3.78	--
45-50	0.64	0.77	51.29	--	23.22	70.51	6.27	6.02
50-55	0.52	1.23	57.33	--	35.09	61.14	3.77	--
55-60	0.65	0.87	61.63	--	22.13	70.87	7.00	4.62
60-65	0.61	1.01	66.56	--	15.12	76.35	8.53	--
65-70	0.63	0.88	71.03	--	22.12	71.35	6.53	5.08
70-75	0.54	1.15	76.80	--	24.38	69.99	5.63	--
75-80	0.59	1.04	81.80	--	17.82	73.47	8.71	3.92
80-85	0.61	1.01	86.71	--	28.80	65.83	5.37	--
85-90	0.57	1.13	92.02	--	30.89	64.63	4.48	2.76

Table 5-1A33: Summary physical data for sediment core PBR_23B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.55	0.69	1.11	--	39.26	56.75	3.99	2.65
1-2	0.64	0.69	2.00	--	31.02	62.03	6.95	4.41
2-3	0.65	0.66	2.84	--	31.42	61.06	7.52	6.36
3-4	0.72	0.66	3.52	--	25.95	65.48	8.57	7.01
4-5	0.74	0.61	4.14	--	15.36	74.72	9.92	8.05
5-6	0.74	0.61	4.75	--	13.47	76.59	9.94	8.03
6-7	0.77	0.49	5.30	--	12.02	76.13	11.85	9.54
7-8	0.76	0.49	5.87	--	10.39	76.60	13.01	8.41
8-9	0.75	0.53	6.45	--	7.95	81.77	10.28	8.97
9-10	0.76	0.53	7.01	--	21.54	70.31	8.15	9.09
10-11	0.74	0.48	7.62	--	21.35	71.33	7.32	8.90
11-12	0.78	0.48	8.13	--	10.00	80.54	9.46	9.28
12-13	0.75	0.47	8.72	--	18.14	73.22	8.64	8.17
13-14	0.76	0.47	9.29	--	22.56	70.27	7.17	8.93
14-15	0.76	0.49	9.85	--	11.60	78.73	9.67	9.36
15-16	0.76	0.49	10.41	--	21.85	70.21	7.94	8.06
16-17	0.66	0.99	11.23	--	14.78	76.26	8.96	5.15
17-18	0.62	0.99	12.15	--	22.80	71.77	5.43	5.69
18-19	0.72	0.51	12.81	--	23.38	72.08	4.54	7.27
19-20	0.74	0.51	13.43	--	13.76	77.47	8.77	7.57
20-22	0.73	0.59	14.73	--	14.65	77.46	7.89	7.40
22-24	0.75	0.57	15.90	--	15.09	77.13	7.78	9.16
24-26	0.77	0.49	17.00	--	7.61	81.33	11.06	9.20
26-28	0.74	0.65	18.22	--	11.83	76.24	11.93	7.57
28-30	0.73	0.51	19.48	--	19.67	73.09	7.24	8.47
30-32	0.78	0.46	20.52	--	11.87	79.10	9.03	9.82
32-34	0.77	0.50	21.57	--	8.27	79.75	11.98	11.30
34-36	0.77	0.50	22.68	--	10.50	80.78	8.72	8.93
36-38	0.75	0.50	23.84	--	15.72	76.07	8.21	9.51
38-40	0.70	0.72	25.37	--	23.61	71.02	5.37	--
40-45	0.79	0.47	27.94	--	9.43	80.42	10.15	--
45-50	0.82	0.42	30.24	--	9.00	78.97	12.03	--
50-55	0.78	0.56	33.00	--	15.44	75.24	9.32	--
55-60	0.80	0.47	35.46	--	7.87	80.92	11.21	--
60-65	0.78	0.56	38.26	--	18.13	74.06	7.81	--
65-70	0.62	0.88	42.87	--	34.08	60.91	5.01	3.38
70-75	0.62	0.95	47.61	--	28.15	66.30	5.55	1.07
75-80	0.56	1.13	52.98	--	34.96	60.82	4.22	2.91
80-85	0.58	1.24	58.07	--	28.17	65.61	6.22	5.13
85-90	0.57	1.06	63.31	--	28.35	64.80	6.85	2.36

Table 5-1A34: Summary physical data for sediment core PBR_25A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.80	0.50	0.47	0.00	12.55	80.49	6.96	5.99
1-2	0.77	0.50	1.04	0.00	14.62	79.19	6.19	5.08
2-3	0.74	0.60	1.66	0.00	16.54	76.65	6.81	4.42
3-4	0.76	0.60	2.23	0.00	10.84	82.15	7.01	5.35
4-5	0.78	0.46	2.77	0.00	12.61	78.47	8.92	6.22
5-6	0.80	0.46	3.26	0.00	13.85	79.97	6.18	5.59
6-7	0.76	0.60	3.85	0.00	16.12	76.57	7.31	4.82
7-8	0.71	0.60	4.56	0.00	19.57	74.10	6.33	4.30
8-9	0.75	0.55	5.17	0.00	12.39	80.03	7.58	4.53
9-10	0.73	0.55	5.82	0.00	26.23	67.32	6.45	4.20
10-11	0.69	0.62	6.57	0.00	16.59	75.80	7.61	3.74
11-12	0.68	0.62	7.34	0.00	21.71	71.23	7.06	5.11
12-13	0.60	0.59	8.32	47.12	31.66	19.29	1.93	4.85
13-14	0.47	0.59	9.62	32.34	39.91	25.32	2.43	2.91
14-15	0.40	1.12	11.10	42.49	45.33	11.05	1.13	2.99
15-16	0.56	1.12	12.18	8.20	64.76	24.86	2.18	3.22
16-17	0.52	1.14	13.36	3.07	46.48	46.01	4.44	3.18
17-18	0.57	1.14	14.41	0.00	38.64	54.24	7.12	2.71
18-19	0.62	1.12	15.34	0.00	51.35	44.39	4.26	2.24
19-20	0.52	1.12	16.52	0.00	41.60	52.86	5.54	2.05
20-22	0.46	1.19	19.17	0.00	28.17	63.89	7.94	2.18
22-24	0.53	1.09	21.50	0.00	21.43	69.85	8.72	1.84
24-26	0.50	1.09	23.96	0.00	29.71	62.94	7.35	1.80
26-28	0.54	1.11	26.23	0.00	39.00	57.22	3.78	1.84
28-30	0.52	1.21	28.60	0.00	35.87	59.64	4.49	2.08
30-32	0.53	1.08	30.90	0.00	23.30	68.47	8.23	2.17
32-34	0.57	1.10	33.03	0.00	15.20	75.58	9.22	2.38
34-36	0.59	0.98	35.04	0.00	20.23	70.83	8.94	2.58
36-38	0.53	1.12	37.33	0.00	23.72	68.43	7.85	2.31
38-40	0.54	1.08	39.62	0.00	23.97	67.96	8.07	2.05
40-45	0.52	1.20	45.51	0.00	23.15	68.58	8.27	2.03
45-50	0.53	1.15	51.30	0.00	23.55	68.34	8.11	2.13
50-55	0.54	1.19	56.97	0.00	31.98	62.16	5.86	2.18
55-60	0.55	1.19	62.54	0.00	26.62	67.03	6.35	1.85
60-65	0.57	1.09	67.85	0.00	17.46	73.22	9.32	2.26
65-70	0.58	1.09	73.06	0.00	14.88	75.90	9.22	2.41
70-75	0.57	1.10	78.33	0.00	14.46	76.93	8.61	2.22
75-80	0.59	1.05	83.37	0.00	21.73	70.63	7.64	2.63
80-85	0.60	1.00	88.31	0.00	19.25	72.85	7.90	2.70
85-90	0.59	1.08	93.29	0.00	21.76	69.89	8.35	2.55

Table 5-1A35: Summary physical data for sediment core PBR_26A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.79	0.52	0.49	--	13.55	78.34	8.11	6.52
1-2	0.78	0.52	1.03	--	15.51	75.21	9.28	6.91
2-3	0.72	1.00	1.70	--	26.67	66.95	6.38	4.49
3-4	0.57	1.00	2.74	--	68.79	29.12	2.09	4.10
4-5	0.53	1.11	3.88	--	52.03	44.13	3.84	3.18
5-6	0.54	1.11	5.01	--	68.34	29.56	2.10	4.56
6-7	0.51	1.03	6.19	--	56.97	40.11	2.92	3.74
7-8	0.00	1.03	8.63	--	40.49	53.62	5.89	4.00
8-9	0.68	0.72	9.42	--	53.09	42.42	4.49	4.95
9-10	0.60	0.72	10.39	--	49.28	47.67	3.05	2.87
10-11	0.52	0.96	11.59	--	47.95	47.24	4.81	2.52
11-12	0.39	0.96	13.09	--	46.59	49.11	4.30	1.81
12-13	0.30	1.42	14.82	--	70.48	27.85	1.67	1.36
13-14	0.27	1.42	16.62	--	79.52	19.81	0.67	1.18
14-15	0.33	1.14	18.27	--	62.31	34.76	2.93	1.57
15-16	0.40	1.14	19.76	--	50.61	44.98	4.41	1.70
16-17	0.51	0.97	20.97	--	26.17	66.30	7.53	2.11
17-18	0.57	0.97	22.01	--	24.39	68.32	7.29	2.43
18-19	0.58	1.11	23.06	--	14.92	76.97	8.11	2.35
19-20	0.56	1.11	24.16	--	17.84	73.62	8.54	1.92
20-22	0.55	1.24	26.39	--	22.53	70.95	6.52	2.15
22-24	0.54	1.21	28.64	--	33.87	60.32	5.81	1.88
24-26	0.56	1.18	30.83	--	23.87	68.94	7.19	2.07
26-28	0.58	1.03	32.92	--	22.67	69.46	7.87	2.49
28-30	0.58	1.08	34.98	--	21.28	71.44	7.28	2.41
30-32	0.58	1.15	37.08	--	17.57	74.88	7.55	2.24
32-34	0.43	1.11	39.90	--	18.39	71.71	9.90	2.15
34-36	0.43	1.13	42.72	--	17.95	74.12	7.93	2.09
36-38	0.43	1.15	45.51	--	20.95	70.92	8.13	2.25
38-40	0.37	1.32	48.61	--	28.47	63.37	8.16	1.66
40-45	0.35	1.29	56.70	--	26.01	67.86	6.13	1.36
45-50	0.35	1.26	64.69	--	28.59	64.70	6.71	1.68
50-55	0.37	1.24	72.51	--	22.62	69.60	7.78	1.82
55-60	0.40	1.21	79.97	--	19.14	72.62	8.24	1.64
60-65	0.43	1.16	87.06	--	24.16	70.05	5.79	2.07
65-70	0.41	1.27	94.38	--	25.41	68.29	6.30	2.02
70-75	0.48	1.09	100.85	--	13.61	78.11	8.28	2.15
75-77	0.48	0.96	103.39	--	15.59	76.03	8.38	2.98

Table 5-1A36: Summary physical data for sediment core PBR_27B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.62	0.96	0.94	--	28.07	66.31	5.62	3.61
1-2	0.63	0.96	1.84	--	30.92	63.68	5.40	4.32
2-3	0.66	0.83	2.67	--	33.90	60.97	5.13	3.79
3-4	0.66	0.83	3.50	--	35.15	59.67	5.18	3.38
4-5	0.65	0.80	4.34	--	33.82	60.69	5.49	4.73
5-6	0.66	0.80	5.18	--	31.21	62.90	5.89	4.75
6-7	0.64	0.78	6.05	--	39.59	55.36	5.05	4.13
7-8	0.62	0.78	6.98	--	33.52	60.84	5.64	3.23
8-9	0.64	0.83	7.86	--	37.04	58.86	4.10	2.87
9-10	0.63	0.83	8.78	--	37.71	56.81	5.48	2.65
10-11	0.60	0.92	9.75	--	39.79	55.83	4.38	3.45
11-12	0.61	0.92	10.70	--	37.18	58.03	4.79	2.84
12-13	0.62	0.97	11.61	--	46.48	49.47	4.05	3.45
13-14	0.60	0.97	12.58	--	40.16	55.20	4.64	4.52
14-15	0.61	0.91	13.54	--	36.45	57.98	5.57	3.20
15-16	0.59	0.91	14.56	--	38.05	56.49	5.46	2.82
16-17	0.60	0.87	15.53	--	38.46	56.11	5.43	3.13
17-18	0.61	0.87	16.49	--	34.09	60.40	5.51	3.69
18-19	0.61	0.93	17.44	--	33.17	61.11	5.72	3.42
19-20	0.54	0.93	18.57	--	45.22	50.60	4.18	2.69
20-22	0.55	1.11	20.78	--	54.51	42.22	3.27	3.93
22-24	0.61	0.96	22.69	--	40.41	54.51	5.08	4.42
24-26	0.60	0.93	24.66	--	39.08	55.99	4.93	3.64
26-28	0.64	0.83	26.36	--	34.29	60.34	5.37	7.41
28-30	0.61	1.05	28.28	--	37.74	57.88	4.38	3.82
30-32	0.63	1.03	30.09	--	40.73	54.49	4.78	4.50
32-34	0.60	1.02	32.06	--	35.98	58.86	5.16	3.89
34-36	0.62	1.01	33.89	--	42.94	53.25	3.81	6.38
36-38	0.59	1.03	35.88	--	34.17	61.22	4.61	4.10
38-40	0.61	0.97	37.78	--	32.83	62.95	4.22	4.66
40-45	0.63	0.92	42.17	--	29.58	65.13	5.29	7.63
45-50	0.60	0.88	46.88	--	33.39	60.81	5.80	7.34
50-55	0.62	0.90	51.49	--	33.49	61.08	5.43	5.27
55-60	0.61	0.91	56.17	--	30.45	63.18	6.37	4.81
60-65	0.70	0.66	59.72	--	25.22	67.80	6.98	6.29
65-70	0.71	0.79	63.25	--	35.02	59.66	5.32	6.44
70-75	0.62	0.88	67.94	--	30.90	63.20	5.90	3.84
75-80	0.59	0.92	72.90	--	26.44	66.71	6.85	4.09
80-85	0.59	0.85	77.87	--	34.61	58.76	6.63	2.98
85-90	0.60	0.96	82.76	--	31.77	62.50	5.73	3.14

Table 5-1A37: Summary physical data for sediment core PBR_28B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.88	0.39	0.29	--	2.82	86.17	11.01	6.24
1-2	0.89	0.39	0.55	--	3.66	83.17	13.17	6.31
2-3	0.90	0.39	0.80	--	3.74	83.46	12.80	6.14
3-4	0.91	0.39	1.01	--	3.37	86.73	9.90	5.98
4-5	0.87	0.45	1.32	--	5.72	83.73	10.55	5.88
5-6	0.86	0.45	1.66	--	6.90	83.29	9.81	5.82
6-7	0.84	0.52	2.04	--	7.44	82.38	10.18	5.56
7-8	0.84	0.52	2.43	--	12.14	80.22	7.64	5.73
8-9	0.83	0.53	2.84	--	6.41	83.92	9.67	5.82
9-10	0.83	0.53	3.25	--	6.37	85.18	8.45	5.85
10-11	0.86	0.53	3.59	--	6.02	84.16	9.82	6.14
11-12	0.83	0.53	3.99	--	6.14	84.23	9.63	6.63
12-13	0.80	0.52	4.46	--	8.08	82.57	9.35	6.63
13-14	0.82	0.52	4.89	--	7.57	81.57	10.86	6.37
14-15	0.81	0.57	5.35	--	7.17	83.83	9.00	6.59
15-16	0.83	0.57	5.76	--	7.71	80.41	11.88	7.57
16-17	0.80	0.63	6.24	--	13.37	78.82	7.81	6.89
17-18	0.71	0.63	6.94	--	12.77	79.52	7.71	4.04
18-19	0.66	0.96	7.77	--	10.25	82.62	7.13	3.25
19-20	0.66	0.96	8.61	--	9.17	83.22	7.61	3.14
20-22	0.63	0.96	10.44	--	10.29	82.10	7.61	3.05
22-24	0.64	0.89	12.19	--	8.54	83.95	7.51	3.35
24-26	0.63	0.98	14.02	--	8.49	83.47	8.04	2.96
26-28	0.61	0.98	15.94	--	8.30	83.66	8.04	2.97
28-30	0.58	1.06	17.99	--	8.96	83.37	7.67	2.58
30-32	0.58	1.06	20.04	--	10.54	82.62	6.84	2.66
32-34	0.58	1.14	22.13	--	10.90	83.67	5.43	2.49
34-36	0.58	1.08	24.21	--	10.33	81.92	7.75	2.41
36-38	0.57	1.11	26.31	--	11.68	81.15	7.17	2.44
38-40	0.65	0.97	28.04	--	11.20	81.46	7.34	2.59
40-45	0.56	1.10	33.45	--	19.52	72.25	8.23	2.05
45-50	0.51	1.17	39.51	--	25.85	65.30	8.85	1.78
50-55	0.62	1.09	44.18	--	13.34	79.21	7.45	1.95
55-60	0.54	1.23	49.86	--	14.10	79.63	6.27	1.74
60-65	0.51	1.03	55.94	--	8.71	85.10	6.19	2.25
65-70	0.60	1.05	60.91	--	9.81	79.90	10.29	2.20
70-75	0.58	0.99	66.04	--	12.74	77.38	9.88	1.86
75-80	0.59	0.89	71.08	--	19.33	71.52	9.15	1.41
80-85	0.57	--	76.39	--	36.72	56.86	6.42	1.48
85-90	0.57	--	81.69	--	21.85	69.11	9.04	1.90

Table 5-1A38: Summary physical data for sediment core PBR_29A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.65	0.86	0.85	--	22.60	71.80	5.60	5.22
1-2	0.66	0.86	1.70	--	23.58	71.11	5.31	--
2-3	0.68	0.77	2.48	--	27.13	67.83	5.04	5.33
3-4	0.68	0.77	3.27	--	22.98	71.41	5.61	4.90
4-5	0.69	0.74	4.02	--	22.17	71.14	6.69	4.90
5-6	0.69	0.74	4.77	--	25.63	68.64	5.73	6.03
6-7	0.73	0.61	5.42	--	22.00	72.91	5.09	6.65
7-8	0.73	0.61	6.06	--	26.42	68.21	5.37	6.89
8-9	0.70	0.71	6.78	--	22.62	71.85	5.53	6.03
9-10	0.70	0.71	7.49	--	19.07	73.90	7.03	6.16
10-11	0.72	0.70	8.19	--	22.85	70.89	6.26	--
11-12	0.71	0.70	8.89	--	24.46	69.40	6.14	5.62
12-13	0.78	0.50	9.41	--	22.59	69.48	7.93	10.97
13-14	0.78	0.50	9.94	--	29.21	65.14	5.65	4.45
14-15	0.69	0.73	10.69	--	25.02	68.67	6.31	4.82
15-16	0.69	0.73	11.43	--	23.44	71.69	4.87	6.95
16-17	0.75	0.59	12.04	--	23.41	69.46	7.13	6.80
17-18	0.75	0.59	12.65	--	21.36	72.12	6.52	6.26
18-19	0.72	0.65	13.34	--	30.55	63.78	5.67	--
19-20	0.72	0.65	14.03	--	24.19	70.36	5.45	--
20-22	0.74	0.63	15.34	--	28.98	65.40	5.62	--
22-24	0.72	0.67	16.72	--	30.36	65.50	4.14	--
24-26	0.71	0.68	18.13	--	32.49	63.31	4.20	6.33
26-28	0.71	0.71	19.56	--	26.73	67.85	5.42	4.81
28-30	0.67	0.78	21.16	--	35.51	61.04	3.45	3.82
30-32	0.69	0.73	22.60	--	30.63	65.09	4.28	8.14
32-34	0.71	0.69	23.98	--	27.23	67.44	5.33	7.39
34-36	0.74	0.63	25.28	--	33.33	62.71	3.96	--
36-38	0.76	0.59	26.50	--	36.03	59.71	4.26	--
38-40	0.74	0.62	27.78	--	28.70	65.52	5.78	--
40-45	0.74	0.61	31.00	--	31.47	64.14	4.39	--
45-50	0.76	0.60	33.97	--	26.08	68.78	5.14	--
50-55	0.77	0.57	36.78	--	18.29	73.15	8.56	6.54
55-60	0.72	0.66	40.12	--	19.66	73.25	7.09	6.56
60-65	0.50	1.13	46.22	--	31.14	64.10	4.76	2.67
65-70	0.56	1.07	51.68	--	23.36	71.07	5.57	--
70-75	0.61	1.10	56.62	--	30.01	65.79	4.20	--
75-80	0.66	0.80	60.89	--	20.47	71.55	7.98	--
80-85	0.55	1.13	66.52	--	29.09	65.98	4.93	--
85-90	0.62	0.93	71.24	--	25.69	67.73	6.58	2.71

Table 5-1A39: Summary physical data for sediment core PBR_30B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.74	0.71	0.65	--	26.53	65.84	7.63	--
1-2	0.73	0.71	1.32	--	23.76	69.24	7.00	--
2-3	0.74	0.65	1.98	--	35.19	58.81	6.00	--
3-4	0.74	0.65	2.63	--	27.14	65.53	7.33	--
4-5	0.80	0.62	3.13	--	40.90	53.78	5.32	--
5-6	0.72	0.62	3.82	--	25.67	68.31	6.02	--
6-7	0.71	0.71	4.53	--	35.83	58.17	6.00	--
7-8	0.76	0.71	5.13	--	30.40	63.48	6.12	--
8-9	0.74	0.59	5.77	--	20.12	70.03	9.85	--
9-10	0.76	0.59	6.38	--	13.13	75.95	10.92	--
10-11	0.80	0.50	6.88	--	20.45	69.76	9.79	--
11-12	0.80	0.50	7.37	--	21.25	69.24	9.51	--
12-13	0.82	0.46	7.82	--	13.51	76.53	9.96	--
13-14	0.81	0.46	8.29	--	16.01	75.25	8.74	--
14-15	0.81	0.47	8.76	--	17.58	72.60	9.82	--
15-16	0.81	0.47	9.24	--	17.38	73.48	9.14	--
16-17	0.81	0.67	9.71	--	19.47	72.47	8.06	--
17-18	0.75	0.67	10.34	--	21.92	70.65	7.43	--
18-19	0.74	0.60	11.00	--	19.24	72.37	8.39	--
19-20	0.76	0.60	11.60	--	20.79	69.78	9.43	--
20-22	0.79	0.52	12.64	--	18.51	72.03	9.46	--
22-24	0.71	0.78	14.10	--	35.09	58.97	5.94	--
24-26	0.55	1.49	16.37	--	77.41	21.34	1.25	--
26-28	0.48	1.13	18.95	--	25.71	66.03	8.26	--
28-30	0.57	1.18	21.08	--	27.31	66.22	6.47	--
30-32	0.59	1.13	23.11	--	19.81	71.38	8.81	--
32-34	0.57	1.14	25.29	--	29.87	62.69	7.44	--
34-36	0.58	1.19	27.36	--	19.76	71.71	8.53	--
36-38	0.63	1.06	29.20	--	31.39	61.88	6.73	--
38-40	0.62	0.96	31.10	--	20.94	69.30	9.76	--
40-45	0.55	1.14	36.78	--	23.22	69.07	7.71	--
45-50	0.52	1.33	42.74	--	51.93	42.44	5.63	--
50-55	0.51	1.33	48.92	--	45.18	49.79	5.03	--
55-60	0.48	1.32	55.43	--	35.49	58.20	6.31	--
60-65	0.50	1.26	61.62	--	39.47	54.60	5.93	--
65-70	0.53	1.26	67.46	--	31.27	60.01	8.72	--
70-75	0.53	1.13	73.33	--	37.86	55.26	6.88	--
75-80	0.57	1.29	78.68	--	35.58	58.46	5.96	--
80-85	0.54	1.17	84.46	--	41.73	53.28	4.99	--
85-90	0.56	1.22	90.02	--	41.86	53.41	4.73	--

Table 5-1A40: Summary physical data for sediment core PBR_31C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.76	0.45	0.58	--	18.62	72.31	9.07	5.25
1-2	0.78	0.45	1.13	--	10.16	76.82	13.02	4.62
2-3	0.76	0.43	1.71	--	8.03	80.89	11.08	4.80
3-4	0.80	0.43	2.20	--	9.08	79.93	10.99	4.73
4-5	0.77	0.50	2.75	--	15.73	73.36	10.91	4.69
5-6	0.81	0.50	3.21	--	7.17	80.73	12.10	4.48
6-7	0.81	0.56	3.67	--	5.47	81.34	13.19	5.13
7-8	0.77	0.56	4.24	--	18.95	70.50	10.55	3.90
8-9	0.78	0.43	4.77	--	15.27	74.95	9.78	4.37
9-10	0.81	0.43	5.22	--	14.97	74.83	10.20	4.95
10-11	0.80	0.48	5.71	--	12.72	75.42	11.86	4.85
11-12	0.80	0.48	6.19	--	10.56	76.80	12.64	4.61
12-13	0.80	0.42	6.69	--	9.84	79.97	10.19	3.97
13-14	0.79	0.42	7.18	--	4.84	81.24	13.92	5.22
14-15	0.80	0.43	7.66	--	7.23	79.31	13.46	5.89
15-16	0.77	0.43	8.20	--	7.92	79.24	12.84	5.73
16-17	0.76	0.48	8.79	--	13.17	76.18	10.65	5.62
17-18	0.76	0.48	9.37	--	19.26	69.79	10.95	5.50
18-19	0.77	0.55	9.93	--	13.79	75.28	10.93	5.55
19-20	0.76	0.55	10.51	--	18.50	71.59	9.91	5.34
20-22	0.80	0.50	11.48	--	14.58	72.71	12.71	4.83
22-24	0.80	0.60	12.45	--	11.30	73.61	15.09	6.87
24-26	0.78	0.39	13.49	--	17.21	70.94	11.85	7.25
26-28	0.85	0.39	14.22	--	3.75	79.10	17.15	7.68
28-30	0.83	0.79	15.04	--	12.15	72.72	15.13	5.37
30-32	0.73	0.80	16.37	--	25.36	65.78	8.86	4.19
32-34	0.66	0.93	18.03	--	40.95	51.74	7.31	2.60
34-36	0.55	1.19	20.25	--	55.25	40.07	4.68	1.49
36-38	0.50	1.38	22.74	--	86.24	12.28	1.48	0.54
38-40	0.48	1.38	25.31	--	80.37	17.78	1.85	0.58
40-45	0.43	1.41	32.35	--	59.48	36.54	3.98	0.60
45-50	0.43	1.40	39.41	--	55.83	41.35	2.82	0.36
50-55	0.43	1.40	46.55	--	57.32	39.60	3.08	0.51
55-60	0.46	1.40	53.31	--	57.82	38.24	3.94	0.50
60-65	0.41	1.35	60.64	--	58.60	37.13	4.27	0.41
65-70	0.41	1.34	67.99	--	51.05	43.80	5.15	0.48
70-75	0.40	1.43	75.46	--	63.03	34.00	2.97	0.44
75-80	0.37	1.38	83.26	--	64.15	32.70	3.15	0.28
80-85	0.36	1.45	91.30	--	65.15	31.74	3.11	0.34
85-90	0.35	1.43	99.40	--	69.59	28.34	2.07	0.28

Table 5-1A41: Summary physical data for sediment core ES_01B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.80	0.50	0.50	--	2.05	83.82	14.13	--
1-2	0.80	0.50	0.99	--	4.16	83.90	11.94	--
2-3	0.80	0.48	1.48	--	2.70	85.05	12.25	--
3-4	0.80	0.48	1.97	--	3.34	84.49	12.17	--
4-5	0.80	0.49	2.46	--	23.94	69.73	6.33	--
5-6	0.80	0.49	2.96	--	2.94	85.42	11.64	4.99
6-7	0.80	0.46	3.44	--	4.11	81.12	14.77	5.28
7-8	0.80	0.46	3.92	--	3.80	81.80	14.40	5.20
8-9	0.80	0.49	4.41	--	2.83	85.05	12.12	5.17
9-10	0.80	0.49	4.90	--	4.31	81.33	14.36	5.20
10-11	0.79	0.51	5.41	--	3.78	81.57	14.65	5.33
11-12	0.79	0.51	5.91	--	3.12	83.61	13.27	5.21
12-13	0.79	0.50	6.41	--	2.85	84.77	12.38	5.32
13-14	0.80	0.50	6.91	--	4.91	84.27	10.82	--
14-15	0.79	0.51	7.42	--	14.54	74.67	10.79	5.47
15-16	0.79	0.51	7.94	--	7.11	80.12	12.77	--
16-17	0.79	0.51	8.44	--	5.15	81.58	13.27	5.98
17-18	0.79	0.51	8.95	--	5.51	81.73	12.76	6.43
18-19	0.80	0.49	9.43	--	15.27	72.36	12.37	6.31
19-20	0.80	0.49	9.92	--	5.73	80.43	13.84	6.19
20-22	0.79	0.49	10.93	--	5.04	82.48	12.48	6.28
22-24	0.78	0.52	11.97	--	8.03	78.88	13.09	4.92
24-26	0.76	0.58	13.14	--	15.35	73.68	10.97	4.21
26-28	0.73	0.66	14.44	--	11.59	74.19	14.22	4.21
28-30	0.73	0.67	15.77	--	7.16	80.18	12.66	3.12
30-32	0.71	0.70	17.21	--	7.14	81.79	11.07	2.82
32-34	0.71	0.73	18.62	--	22.47	68.87	8.66	2.55
34-36	0.71	0.74	20.07	--	5.44	82.13	12.43	--
36-38	0.70	0.78	21.59	--	3.69	85.32	10.99	--
38-40	0.69	0.76	23.14	--	4.62	82.80	12.58	2.16
40-45	0.69	0.78	26.96	--	3.53	85.12	11.35	1.92
45-50	0.70	0.75	30.73	--	5.67	81.59	12.74	--
50-55	0.67	0.80	34.80	--	7.26	81.30	11.44	--
55-60	0.66	0.86	39.01	--	5.26	82.76	11.98	1.79
60-65	0.70	0.72	42.70	--	11.20	78.26	10.54	1.75
65-70	0.63	0.93	47.30	--	8.84	82.56	8.60	--
70-75	0.63	0.96	51.88	--	14.93	74.57	10.50	--
75-80	0.62	0.95	56.62	--	20.80	70.76	8.44	1.44
80-85	0.62	1.02	61.35	--	14.75	76.25	9.00	1.51
85-90	0.64	0.90	65.88	--	17.69	74.49	7.82	--

Table 5-1A42: Summary physical data for sediment core ES_02C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.84	0.38	0.38	--	1.96	87.14	10.90	5.04
1-2	0.84	0.38	0.76	--	1.36	85.27	13.37	5.35
2-3	0.85	0.40	1.12	--	0.43	87.40	12.17	5.26
3-4	0.86	0.40	1.46	--	1.27	86.85	11.88	5.25
4-5	0.85	0.38	1.82	--	6.63	81.91	11.46	4.85
5-6	0.86	0.38	2.16	--	6.04	82.46	11.50	4.95
6-7	0.86	0.35	2.51	--	3.97	82.39	13.64	5.01
7-8	0.86	0.35	2.84	--	8.09	82.39	9.52	5.02
8-9	0.85	0.40	3.20	--	2.58	85.63	11.79	5.06
9-10	0.85	0.40	3.58	--	1.65	86.55	11.80	5.01
10-11	0.84	0.40	3.96	--	2.74	86.19	11.07	5.07
11-12	0.85	0.40	4.32	--	1.21	86.69	12.10	5.29
12-13	0.85	0.41	4.67	--	2.19	86.08	11.73	5.32
13-14	0.84	0.41	5.05	--	2.23	86.23	11.54	5.31
14-15	0.84	0.41	5.43	--	1.72	86.73	11.55	5.41
15-16	0.84	0.41	5.80	--	13.50	80.15	6.35	5.44
16-17	0.85	0.45	6.18	--	3.32	84.52	12.16	5.74
17-18	0.84	0.45	6.55	--	2.36	87.36	10.28	5.53
18-19	0.84	0.41	6.93	--	2.10	87.44	10.46	5.71
19-20	0.85	0.41	7.30	--	2.25	85.93	11.82	5.84
20-22	0.85	0.42	8.01	--	3.13	85.06	11.81	5.60
22-24	0.84	0.44	8.76	--	2.53	86.28	11.19	5.62
24-26	0.82	0.41	9.62	--	2.89	85.69	11.42	6.43
26-28	0.82	0.45	10.49	--	3.77	82.36	13.87	5.97
28-30	0.83	0.50	11.32	--	3.36	84.61	12.03	6.53
30-32	0.81	0.52	12.23	--	3.41	83.65	12.94	6.42
32-34	0.82	0.51	13.10	--	2.94	84.20	12.86	5.83
34-36	0.82	0.50	13.97	--	5.16	82.77	12.07	5.78
36-38	0.82	0.48	14.85	--	3.12	87.22	9.66	6.17
38-40	0.80	0.56	15.83	--	5.23	82.52	12.25	5.47
40-45	0.80	0.59	18.26	--	4.23	85.48	10.29	4.61
45-50	0.74	0.54	21.41	--	6.79	81.94	11.27	3.53
50-55	0.75	0.81	24.54	--	4.91	84.09	11.00	2.74
55-60	0.70	0.87	28.23	--	4.36	83.92	11.72	2.25
60-65	0.70	0.91	31.99	--	8.37	84.84	6.79	2.07
65-70	0.70	0.85	35.70	--	5.30	86.37	8.33	2.05
70-75	0.68	0.78	39.60	--	4.91	83.91	11.18	2.11
75-80	0.73	0.66	42.95	--	8.23	82.65	9.12	3.09
80-85	0.63	0.79	47.52	--	13.03	79.17	7.80	2.10
85-90	0.68	0.85	51.53	--	6.68	83.30	10.02	2.12

Table 5-1A43: Summary physical data for sediment core ES_03C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.61	0.83	0.97	--	43.69	52.15	4.16	1.73
1-2	0.68	0.83	1.76	--	25.77	66.77	7.46	2.87
2-3	0.67	0.75	2.57	--	10.04	74.09	15.87	3.52
3-4	0.71	0.75	3.27	--	18.26	71.80	9.94	3.81
4-5	0.72	0.69	3.94	--	14.31	76.55	9.14	3.81
5-6	0.74	0.69	4.57	--	11.18	79.85	8.97	4.29
6-7	0.75	0.80	5.18	--	20.04	71.83	8.13	3.74
7-8	0.76	0.80	5.78	--	29.46	61.95	8.59	3.78
8-9	0.73	0.96	6.44	--	33.37	58.76	7.87	3.20
9-10	0.73	0.96	7.09	--	51.98	45.63	2.39	2.48
10-11	0.72	1.00	7.77	--	41.64	52.67	5.69	2.86
11-12	0.71	1.00	8.49	--	51.92	43.46	4.62	2.43
12-13	0.60	0.78	9.48	--	52.83	42.49	4.68	2.13
13-14	0.59	0.78	10.48	--	36.94	55.35	7.71	3.13
14-15	0.62	0.93	11.41	--	35.41	57.50	7.09	2.61
15-16	0.63	0.93	12.31	--	52.63	42.41	4.96	3.04
16-17	0.60	1.43	13.30	--	54.99	40.08	4.93	2.87
17-18	0.57	1.43	14.36	--	64.79	32.00	3.21	2.23
18-19	0.58	1.45	15.40	--	44.75	49.51	5.74	1.37
19-20	0.53	1.45	16.57	--	47.97	46.62	5.41	1.78
20-22	0.47	1.36	19.18	--	52.56	42.09	5.35	1.49
22-24	0.48	1.34	21.76	--	60.32	36.38	3.30	1.05
24-26	0.50	1.59	24.26	--	64.63	32.02	3.35	0.95
26-28	0.45	1.71	27.01	--	78.87	19.46	1.67	1.24
28-30	0.33	1.45	30.36	--	72.05	26.31	1.64	0.54
30-32	0.44	1.18	33.11	--	51.23	44.49	4.28	1.77
32-34	0.56	1.22	35.30	--	29.84	61.21	8.95	1.18
34-36	0.53	1.28	37.62	--	46.33	48.45	5.22	1.83
36-38	0.47	1.23	40.24	--	31.55	61.74	6.71	1.23
38-40	0.30	1.19	43.73	--	65.34	31.51	3.15	0.71
40-45	0.31	1.26	52.31	--	68.17	28.61	3.22	1.23
45-50	0.58	1.23	57.49	--	29.97	62.32	7.71	1.21
50-55	0.39	1.58	65.11	--	61.05	35.53	3.42	0.87
55-60	0.29	1.69	73.88	--	62.92	32.96	4.12	0.98
60-65	0.36	1.78	81.85	--	46.15	49.35	4.50	0.47
65-70	0.37	1.61	89.68	--	60.09	35.78	4.13	0.68
70-75	0.30	1.68	98.44	--	47.35	47.73	4.92	0.50
75-80	0.42	1.50	105.68	--	53.39	42.88	3.73	0.78
80-85	0.37	1.53	113.48	--	59.77	37.93	2.30	0.43
85-90	0.36	1.56	121.46	--	61.67	36.25	2.08	0.45

Table 5-1A44: Summary physical data for sediment core ES_04C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.84	0.35	0.40	0.00	5.97	83.30	10.73	4.38
1-2	0.84	0.35	0.80	0.00	7.19	79.72	13.09	4.34
2-3	0.85	0.38	1.17	0.00	5.17	83.29	11.54	4.41
3-4	0.84	0.38	1.55	0.00	5.36	79.50	15.14	4.39
4-5	0.83	0.37	1.95	0.00	4.76	85.04	10.20	4.36
5-6	0.84	0.37	2.34	0.00	7.43	84.27	8.30	4.04
6-7	0.81	0.39	2.80	0.00	5.17	83.23	11.60	4.31
7-8	0.83	0.39	3.23	0.00	9.77	78.70	11.53	4.26
8-9	0.82	0.41	3.66	0.00	3.77	85.99	10.24	3.69
9-10	0.81	0.41	4.11	0.00	14.32	73.65	12.03	4.54
10-11	0.81	0.40	4.56	0.00	6.17	82.64	11.19	4.58
11-12	0.81	0.40	5.03	0.00	8.81	80.66	10.53	4.12
12-13	0.73	0.70	5.68	0.00	11.38	76.08	12.54	4.19
13-14	0.69	0.70	6.43	17.21	19.62	53.91	9.26	3.80
14-15	0.70	0.68	7.17	0.00	22.66	67.31	10.03	3.32
15-16	0.66	0.68	7.99	0.00	41.17	50.16	8.67	3.36
16-17	0.53	0.80	9.14	40.33	13.90	38.58	7.19	2.54
17-18	0.66	0.80	9.98	40.28	27.24	29.14	3.34	3.18
18-19	0.63	0.91	10.90	21.79	23.46	48.39	6.36	2.37
19-20	0.66	0.91	11.73	27.39	37.77	30.97	3.87	2.11
20-22	0.67	0.81	13.35	0.00	19.59	69.23	11.18	2.50
22-24	0.74	0.68	14.62	0.00	12.04	75.76	12.20	3.22
24-26	0.74	0.74	15.90	0.00	18.65	71.63	9.72	3.09
26-28	0.77	0.61	17.05	34.31	16.45	43.87	5.37	2.61
28-30	0.74	0.75	18.34	0.00	7.56	82.54	9.90	2.63
30-32	0.75	0.61	19.57	7.49	9.41	70.03	13.07	2.61
32-34	0.73	0.67	20.92	0.00	14.32	77.95	7.73	2.98
34-36	0.69	0.58	22.45	30.11	18.14	47.19	4.56	2.78
36-38	0.74	1.05	23.74	0.00	0.24	3.82	95.94	2.41
38-40	0.73	0.54	25.06	0.00	35.67	55.69	8.64	2.77
40-45	0.76	0.53	27.96	0.00	4.89	82.69	12.42	2.88
45-50	0.78	0.49	30.64	0.00	6.57	82.75	10.68	3.02
50-55	0.56	0.53	36.12	31.68	30.61	33.87	3.84	2.18
55-60	0.71	0.59	39.65	0.00	16.49	71.94	11.57	2.47
60-65	0.79	0.62	42.28	0.00	2.51	86.30	11.19	2.90
65-70	0.80	0.46	44.76	0.00	5.38	86.12	8.50	2.77
70-75	0.79	0.45	47.31	0.00	4.53	81.40	14.07	2.82
75-80	0.74	0.51	50.47	0.00	2.24	89.16	8.60	3.07
80-85	0.74	0.58	53.71	0.00	4.88	86.53	8.59	2.77
85-90	0.77	0.50	56.50	0.00	2.84	88.04	9.12	2.91

Table 5-1A45: Summary physical data for sediment core ES_06A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.81	0.41	0.47	--	2.08	84.28	13.64	3.76
1-2	0.81	0.41	0.94	--	1.66	79.86	18.48	4.04
2-3	0.79	0.44	1.45	--	1.89	82.63	15.48	3.82
3-4	0.79	0.44	1.96	--	2.04	83.43	14.53	3.76
4-5	0.79	0.48	2.48	--	1.42	76.19	22.39	3.82
5-6	0.78	0.48	3.00	--	2.32	80.42	17.26	4.02
6-7	0.78	0.46	3.53	--	1.65	76.44	21.91	4.18
7-8	0.79	0.46	4.04	--	1.25	77.46	21.29	3.88
8-9	0.80	0.46	4.54	--	1.99	78.83	19.18	3.96
9-10	0.78	0.46	5.07	--	2.00	79.34	18.66	4.06
10-11	0.78	0.48	5.61	--	2.03	78.58	19.39	4.05
11-12	0.78	0.48	6.14	--	1.26	50.40	48.34	3.87
12-13	0.78	0.50	6.67	--	1.68	78.18	20.14	3.80
13-14	0.78	0.50	7.21	--	1.88	77.27	20.85	4.04
14-15	0.77	0.53	7.78	--	1.52	80.38	18.10	3.78
15-16	0.77	0.53	8.35	--	1.76	79.84	18.40	3.69
16-17	0.76	0.58	8.93	--	1.45	79.73	18.82	3.60
17-18	0.76	0.58	9.52	--	2.68	53.99	43.33	3.61
18-19	0.75	0.59	10.12	--	0.84	86.57	12.59	3.35
19-20	0.74	0.59	10.76	--	1.64	79.93	18.43	3.34
20-22	0.75	0.50	11.96	--	1.42	80.14	18.44	3.53
22-24	0.76	0.45	13.14	--	1.47	80.08	18.45	3.24
24-26	0.75	0.54	14.35	--	2.70	81.71	15.59	2.88
26-28	0.74	0.57	15.63	--	1.72	82.45	15.83	2.55
28-30	0.26	0.63	19.28	--	2.68	84.34	12.98	2.55
30-32	0.73	0.61	20.60	--	1.56	81.22	17.22	2.46
32-34	0.72	0.61	22.01	--	2.86	84.40	12.74	2.18
34-36	0.74	0.59	23.29	--	1.86	82.49	15.65	2.08
36-38	0.74	0.63	24.59	--	2.38	83.73	13.89	2.09
38-40	0.74	0.64	25.89	--	0.00	77.24	22.76	1.99
40-45	0.70	0.66	29.65	--	1.18	85.70	13.12	2.26
45-50	0.74	0.62	32.82	--	1.96	81.61	16.43	2.05
50-55	0.74	0.57	35.98	--	1.55	79.84	18.61	2.04
55-60	0.74	0.60	39.24	--	2.09	82.85	15.06	2.00
60-65	0.73	0.64	42.59	--	1.36	75.53	23.11	1.94
65-70	0.73	0.63	45.93	--	1.48	74.10	24.42	2.05
70-75	0.73	0.60	49.23	--	1.84	82.17	15.99	2.02
75-80	0.73	0.58	52.55	--	3.40	69.83	26.77	1.99
80-85	0.72	0.66	56.02	--	1.85	83.09	15.06	1.16
85-90	0.73	0.63	59.41	--	2.12	79.91	17.97	1.90

Table 5-1A46: Summary physical data for sediment core ES_07A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.88	0.42	0.30	--	4.38	83.72	11.90	2.55
1-2	0.86	0.42	0.63	--	0.90	86.46	12.64	2.55
2-3	0.86	0.45	0.98	--	0.35	84.06	15.59	2.55
3-4	0.84	0.45	1.38	--	0.15	82.77	17.08	2.55
4-5	0.86	0.43	1.74	--	0.25	86.03	13.72	2.54
5-6	0.85	0.43	2.12	--	0.54	85.57	13.89	2.54
6-7	0.81	0.50	2.60	--	0.59	84.37	15.04	2.53
7-8	0.80	0.50	3.09	--	1.01	84.35	14.64	2.59
8-9	0.78	0.56	3.64	--	0.66	84.45	14.89	2.60
9-10	0.76	0.56	4.22	--	0.52	84.88	14.60	2.55
10-11	0.76	0.52	4.81	--	1.36	84.08	14.56	2.66
11-12	0.76	0.52	5.40	--	0.51	83.67	15.82	2.56
12-13	0.76	0.57	5.99	--	1.45	77.08	21.47	2.54
13-14	0.76	0.57	6.59	--	0.55	76.75	22.70	2.47
14-15	0.75	0.62	7.21	--	0.77	76.86	22.37	2.39
15-16	0.75	0.62	7.83	--	0.59	85.63	13.78	2.41
16-17	0.75	0.62	8.45	--	2.28	76.82	20.90	2.29
17-18	0.76	0.62	9.04	--	0.56	86.57	12.87	2.25
18-19	0.76	0.62	9.64	--	0.69	79.11	20.20	2.30
19-20	0.74	0.62	10.27	--	2.00	79.79	18.21	2.20
20-22	0.84	0.57	11.07	--	0.80	82.01	17.19	2.49
22-24	0.87	0.63	11.73	--	1.48	79.72	18.80	2.20
24-26	0.87	0.63	12.39	--	0.53	84.25	15.22	1.88
26-28	0.84	0.55	13.20	--	1.21	82.50	16.29	1.87
28-30	0.86	0.64	13.90	--	1.02	79.57	19.41	1.85
30-32	0.87	0.66	14.54	--	0.46	77.89	21.65	1.93
32-34	0.86	0.63	15.22	--	0.91	80.83	18.26	1.95
34-36	0.86	0.62	15.92	--	0.53	85.41	14.06	1.93
36-38	0.85	0.61	16.68	--	0.67	78.43	20.90	1.79
38-40	0.86	0.61	17.35	--	0.64	77.94	21.42	1.76
40-45	0.88	0.62	18.89	--	0.90	78.48	20.62	1.92
45-50	0.87	0.59	20.50	--	1.67	82.25	16.08	1.78
50-55	0.89	0.64	21.90	--	0.85	79.56	19.59	1.71
55-60	0.87	0.64	23.51	--	1.21	78.93	19.86	1.76
60-65	0.88	0.60	24.98	--	1.00	84.00	15.00	1.72
65-70	0.89	0.63	26.31	--	1.28	80.00	18.72	1.73
70-75	0.89	0.60	27.64	--	0.76	78.26	20.98	2.23
75-80	0.88	0.59	29.18	--	0.67	80.37	18.96	1.76
80-85	0.88	0.62	30.72	--	1.70	82.18	16.12	1.72
85-90	0.88	0.61	32.26	--	2.06	81.52	16.42	1.67

Table 5-1A47: Summary physical data for sediment core ES_08A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.85	0.43	0.39	--	3.13	81.66	15.21	--
1-2	0.83	0.43	0.80	--	5.53	79.73	14.74	--
2-3	0.82	0.47	1.25	--	2.33	87.99	9.68	--
3-4	0.80	0.47	1.75	--	0.08	3.49	96.43	--
4-5	0.81	0.47	2.22	--	3.99	82.09	13.92	--
5-6	0.82	0.47	2.66	--	8.30	76.63	15.07	--
6-7	0.82	0.47	3.12	--	3.35	79.32	17.33	--
7-8	0.81	0.47	3.59	--	3.71	77.80	18.49	--
8-9	0.81	0.47	4.07	--	3.99	80.82	15.19	--
9-10	0.81	0.47	4.54	--	4.05	81.34	14.61	--
10-11	0.79	0.48	5.06	--	5.16	75.25	19.59	--
11-12	0.79	0.48	5.58	--	6.11	78.96	14.93	--
12-13	0.80	0.48	6.08	--	10.18	78.12	11.70	--
13-14	0.79	0.48	6.60	--	5.08	81.03	13.89	--
14-15	0.78	0.49	7.16	--	19.19	70.37	10.44	--
15-16	0.76	0.49	7.77	--	7.96	77.42	14.62	--
16-17	0.76	0.53	8.37	--	12.82	73.67	13.51	--
17-18	0.74	0.53	9.03	--	10.74	76.89	12.37	--
18-19	0.74	0.61	9.67	--	12.75	75.47	11.78	--
19-20	0.73	0.61	10.34	--	8.97	79.61	11.42	--
20-22	0.75	0.55	11.61	--	13.23	72.72	14.05	--
22-24	0.73	0.59	12.97	--	13.57	73.15	13.28	--
24-26	0.71	0.70	14.43	--	15.42	74.14	10.44	--
26-28	0.74	0.62	15.71	--	19.91	71.71	8.38	--
28-30	0.75	0.71	16.97	--	19.76	69.09	11.15	--
30-32	0.73	0.72	18.33	--	18.64	72.73	8.63	--
32-34	0.69	0.67	19.90	--	17.01	71.82	11.17	--
34-36	0.73	0.54	21.24	--	16.47	71.36	12.17	--
36-38	0.65	0.67	22.97	--	20.80	64.92	14.28	--
38-40	0.69	0.53	24.51	--	19.54	68.66	11.80	--
40-45	0.68	0.59	28.52	--	10.14	74.16	15.70	--
45-50	0.71	0.59	32.20	--	8.61	76.53	14.86	--
50-55	0.72	0.66	35.77	--	12.72	73.70	13.58	--
55-60	0.70	0.65	39.48	--	6.75	78.54	14.71	--
60-65	0.71	0.62	43.15	--	1.64	80.64	17.72	--
65-70	0.71	0.56	46.82	--	4.87	75.93	19.20	--
70-75	0.73	0.52	50.17	--	4.86	79.89	15.25	--
75-80	0.70	0.52	53.86	--	3.88	77.14	18.98	--
80-85	0.74	0.59	57.15	--	9.52	74.22	16.26	--
85-90	0.74	0.58	60.35	--	3.07	80.28	16.65	--

Table 5-1A48: Summary physical data for sediment core ES_08C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.90	0.31	0.24	--	3.00	80.07	16.93	3.04
1-2	0.89	0.31	0.51	--	4.34	80.76	14.90	3.03
2-3	0.90	0.35	0.76	--	3.51	76.18	20.31	3.07
3-4	0.89	0.35	1.04	--	0.00	2.37	97.63	3.00
4-5	0.88	0.38	1.34	--	3.89	78.18	17.93	3.09
5-6	0.86	0.38	1.67	--	3.23	78.76	18.01	2.94
6-7	0.85	0.52	2.04	--	5.41	78.62	15.97	3.15
7-8	0.84	0.52	2.43	--	9.05	77.08	13.87	3.04
8-9	0.84	0.43	2.82	--	5.99	75.32	18.69	3.12
9-10	0.82	0.43	3.26	--	11.25	73.70	15.05	3.22
10-11	0.82	0.50	3.69	--	5.63	76.96	17.41	3.20
11-12	0.81	0.50	4.16	--	2.83	53.31	43.86	2.95
12-13	0.82	0.49	4.61	--	9.34	76.08	14.58	2.91
13-14	0.80	0.49	5.10	--	7.63	76.61	15.76	3.00
14-15	0.78	0.62	5.64	--	5.00	79.99	15.01	3.18
15-16	0.79	0.62	6.17	--	6.57	75.22	18.21	3.16
16-17	0.78	0.51	6.71	--	2.96	78.77	18.27	3.01
17-18	0.78	0.51	7.26	--	6.71	78.99	14.30	3.23
18-19	0.78	0.55	7.78	--	12.19	74.65	13.16	3.08
19-20	0.78	0.55	8.32	--	7.98	76.94	15.08	3.03
20-22	0.79	0.53	9.36	--	3.74	79.85	16.41	2.95
22-24	0.74	0.50	10.63	--	4.78	78.59	16.63	2.90
24-26	0.75	0.71	11.88	--	7.02	75.95	17.03	2.88
26-28	0.74	0.59	13.15	--	11.87	73.79	14.34	2.63
28-30	0.74	0.53	14.43	--	10.60	76.09	13.31	2.62
30-32	0.76	0.70	15.63	--	9.75	74.65	15.60	2.66
32-34	0.74	0.49	16.90	--	6.78	77.69	15.53	2.68
34-36	0.72	0.72	18.26	--	10.78	75.47	13.75	2.52
36-38	0.72	0.82	19.63	--	14.95	74.36	10.69	2.60
38-40	0.62	0.73	21.53	--	22.57	70.23	7.20	1.24
40-45	0.69	0.75	25.39	--	24.79	70.41	4.80	2.66
45-50	0.70	0.56	29.04	--	25.14	65.46	9.40	3.18
50-55	0.67	0.90	33.10	--	18.42	69.00	12.58	2.34
55-60	0.72	0.62	36.54	--	10.70	74.67	14.63	2.09
60-65	0.68	0.66	40.45	--	12.35	73.64	14.01	2.02
65-70	0.71	0.63	44.02	--	4.46	77.56	17.98	2.02
70-75	0.71	0.63	47.64	--	2.97	84.20	12.83	2.14
75-80	0.70	0.63	51.41	--	8.91	74.43	16.66	2.06
80-85	0.74	0.58	54.66	--	7.26	74.98	17.76	2.08
85-90	0.73	0.55	57.94	--	15.17	69.97	14.86	2.14

Table 5-1A49: Summary physical data for sediment core ES_09C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.89	0.11	0.28	--	3.45	82.83	13.72	2.54
1-2	0.88	0.11	0.57	--	1.08	80.70	18.22	2.48
2-3	0.88	0.17	0.88	--	0.86	49.92	49.22	2.55
3-4	0.85	0.17	1.24	--	1.07	77.88	21.05	2.51
4-5	0.84	0.20	1.64	--	0.45	89.55	10.00	2.49
5-6	0.86	0.20	1.98	--	1.03	82.37	16.60	2.52
6-7	0.85	0.19	2.36	--	1.84	78.67	19.49	2.54
7-8	0.84	0.19	2.76	--	1.50	77.85	20.65	2.53
8-9	0.82	0.24	3.19	--	1.72	82.71	15.57	2.51
9-10	0.82	0.24	3.64	--	1.18	81.23	17.59	2.53
10-11	0.81	0.37	4.11	--	0.92	89.34	9.74	2.52
11-12	0.80	0.37	4.60	--	0.49	92.77	6.74	2.51
12-13	0.78	0.51	5.14	--	2.90	82.54	14.56	2.49
13-14	0.75	0.51	5.74	--	2.20	76.71	21.09	2.51
14-15	0.76	0.49	6.34	--	1.43	85.58	12.99	2.53
15-16	0.76	0.49	6.94	--	1.26	77.46	21.28	2.56
16-17	0.75	0.58	7.55	--	1.94	80.31	17.75	2.51
17-18	0.74	0.58	8.19	--	1.90	81.44	16.66	2.78
18-19	0.72	0.67	8.88	--	0.79	90.86	8.35	2.57
19-20	0.73	0.67	9.54	--	1.35	88.44	10.21	2.57
20-22	0.73	0.66	10.87	--	2.62	81.75	15.63	2.52
22-24	0.73	0.66	12.20	--	1.37	83.27	15.36	2.29
24-26	0.74	0.68	13.50	--	2.16	81.49	16.35	2.27
26-28	0.75	0.70	14.75	--	6.29	76.11	17.60	2.35
28-30	0.75	0.70	16.00	--	2.74	83.68	13.58	2.32
30-32	0.73	0.72	17.31	--	1.38	85.74	12.88	2.04
32-34	0.72	0.74	18.68	--	1.61	74.57	23.82	1.98
34-36	0.73	0.72	20.01	--	0.64	86.19	13.17	1.82
36-38	0.72	0.80	21.42	--	1.45	83.95	14.60	1.71
38-40	0.71	0.70	22.83	--	1.84	82.49	15.67	1.65
40-45	0.73	0.73	26.22	--	3.55	82.85	13.60	1.76
45-50	0.77	0.63	29.10	--	2.39	79.89	17.72	1.71
50-55	0.77	0.68	31.93	--	1.71	83.08	15.21	1.71
55-60	0.77	0.63	34.83	--	0.70	86.66	12.64	1.70
60-65	0.77	0.67	37.71	--	2.01	83.20	14.79	1.75
65-70	0.76	0.68	40.72	--	1.21	84.37	14.42	1.75
70-75	0.73	0.68	44.05	--	1.74	86.19	12.07	1.46
75-80	0.74	0.67	47.27	--	0.65	84.35	15.00	1.73
80-85	0.74	0.64	50.54	--	1.62	83.14	15.24	1.71
85-90	0.76	0.63	53.55	--	1.89	83.90	14.21	1.73

Table 5-1A50: Summary physical data for sediment core ES_12C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.84	0.08	0.39	--	1.30	80.03	18.67	5.33
1-2	0.87	0.08	0.72	--	6.89	77.72	15.39	5.05
2-3	0.88	0.09	1.02	--	0.97	83.52	15.51	--
3-4	0.88	0.09	1.31	--	1.33	81.01	17.66	--
4-5	0.86	0.45	1.65	--	0.89	86.67	12.44	4.74
5-6	0.85	0.45	2.02	--	0.58	84.84	14.58	--
6-7	0.83	0.47	2.44	--	1.97	84.71	13.32	5.02
7-8	0.84	0.47	2.85	--	1.57	83.58	14.85	--
8-9	0.85	0.49	3.21	--	3.76	77.31	18.93	4.35
9-10	0.81	0.49	3.66	--	0.96	88.42	10.62	4.62
10-11	0.82	0.51	4.12	--	0.72	85.47	13.81	--
11-12	0.81	0.51	4.59	--	0.61	90.20	9.19	4.70
12-13	0.80	0.55	5.09	--	0.64	85.95	13.41	--
13-14	0.79	0.55	5.60	--	0.75	89.48	9.77	5.26
14-15	0.78	0.55	6.12	--	6.32	83.04	10.64	5.97
15-16	0.79	0.55	6.63	--	0.61	87.66	11.73	5.92
16-17	0.80	0.54	7.12	--	1.24	85.65	13.11	5.62
17-18	0.76	0.54	7.69	--	1.03	84.71	14.26	5.55
18-19	0.73	0.56	8.34	--	12.02	72.31	15.67	5.56
19-20	0.74	0.56	8.97	--	2.12	88.02	9.86	5.09
20-22	0.73	0.64	10.26	--	0.65	79.18	20.17	4.32
22-24	0.72	0.70	11.59	--	0.60	79.90	19.50	7.24
24-26	0.71	0.77	12.98	--	0.90	77.86	21.24	7.65
26-28	0.71	0.76	14.36	--	0.88	50.86	48.26	7.75
28-30	0.70	0.70	15.79	--	1.21	69.73	29.06	6.51
30-32	0.71	0.70	17.20	--	1.06	83.31	15.63	4.84
32-34	0.72	0.72	18.59	--	1.74	76.93	21.33	2.80
34-36	0.72	0.81	19.97	--	1.35	51.86	46.79	1.44
36-38	0.72	0.79	21.39	--	1.32	80.61	18.07	0.76
38-40	0.71	0.80	22.82	--	2.14	78.05	19.81	0.76
40-45	0.74	0.70	26.03	--	1.09	85.39	13.52	--
45-50	0.74	0.68	29.31	--	1.44	78.35	20.21	0.50
50-55	0.74	0.69	32.57	--	2.51	82.30	15.19	0.52
55-60	0.74	0.69	35.86	--	1.59	81.18	17.23	0.50
60-65	0.74	0.70	39.10	--	0.97	57.30	41.73	0.57
65-70	0.73	0.74	42.44	--	2.32	80.44	17.24	0.53
70-75	0.73	0.76	45.76	--	0.94	86.59	12.47	0.74
75-80	0.72	0.72	49.23	--	2.44	79.14	18.42	0.51
80-85	0.72	0.69	52.71	--	0.83	77.75	21.42	0.43
85-90	0.72	0.75	56.17	--	1.18	80.64	18.18	0.39

Table 5-1A51: Summary physical data for sediment core ES_13C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.54	0.64	1.13	--	2.71	87.04	10.25	2.78
1-2	0.60	0.64	2.11	--	2.25	76.50	21.25	2.87
2-3	0.64	0.72	3.01	--	5.46	81.89	12.65	--
3-4	0.64	0.72	3.89	--	0.85	85.53	13.62	2.69
4-5	0.64	0.71	4.77	--	2.12	75.83	22.05	2.85
5-6	0.66	0.71	5.60	--	2.28	75.38	22.34	2.71
6-7	0.65	0.71	6.46	--	3.15	82.46	14.39	2.82
7-8	0.64	0.71	7.34	--	2.74	75.51	21.75	3.00
8-9	0.66	0.75	8.18	--	2.05	78.24	19.71	2.77
9-10	0.65	0.75	9.05	--	2.22	82.79	14.99	2.79
10-11	0.64	0.75	9.93	--	1.15	86.04	12.81	2.69
11-12	0.64	0.75	10.82	--	2.87	83.20	13.93	2.49
12-13	0.63	0.75	11.72	--	2.31	68.84	28.85	2.28
13-14	0.64	0.75	12.62	--	2.28	77.19	20.53	2.17
14-15	0.61	0.82	13.57	--	3.66	78.03	18.31	2.19
15-16	0.64	0.82	14.47	--	3.51	80.03	16.46	2.04
16-17	0.63	0.81	15.40	--	4.91	76.16	18.93	1.89
17-18	0.67	0.81	16.22	--	2.75	81.79	15.46	1.83
18-19	0.66	0.80	17.05	--	1.81	75.47	22.72	1.77
19-20	0.71	0.80	17.78	--	2.22	89.39	8.39	1.74
20-22	0.69	0.75	19.33	--	2.64	79.71	17.65	1.47
22-24	0.69	0.76	20.86	--	6.81	72.18	21.01	1.58
24-26	0.70	0.76	22.35	--	0.94	43.17	55.89	1.67
26-28	0.67	0.77	23.96	--	1.77	84.17	14.06	1.60
28-30	0.68	0.71	25.55	--	1.14	45.36	53.50	1.63
30-32	0.68	0.74	27.15	--	1.94	80.86	17.20	1.62
32-34	0.69	0.70	28.71	--	3.11	81.45	15.44	1.55
34-36	0.68	0.74	30.28	--	2.09	75.32	22.59	1.59
36-38	0.69	0.75	31.81	--	3.25	79.24	17.51	--
38-40	0.68	0.75	33.41	--	0.99	82.38	16.63	1.59
40-45	0.70	0.73	37.14	--	1.63	77.96	20.41	1.64
45-50	0.70	0.71	40.82	--	0.76	83.15	16.09	1.71
50-55	0.70	0.73	44.60	--	4.48	75.58	19.94	1.60
55-60	0.69	0.76	48.45	--	1.77	83.64	14.59	1.27
60-65	0.69	0.74	52.23	--	1.71	82.68	15.61	1.50
65-70	0.69	0.73	56.03	--	12.60	72.78	14.62	1.43
70-75	0.70	0.70	59.79	--	2.36	82.26	15.38	1.41
75-80	0.69	0.75	63.59	--	1.39	85.35	13.26	1.45
80-85	0.69	0.75	67.47	--	5.57	78.87	15.56	1.42
85-90	0.69	0.74	71.31	--	1.35	81.74	16.91	1.50

Table 5-1A52: Summary physical data for sediment core ES_14C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.71	0.70	0.71	0.00	3.57	83.03	13.40	3.60
1-2	0.71	0.70	1.41	0.00	3.05	80.81	16.14	3.94
2-3	0.72	0.68	2.09	0.00	5.48	79.27	15.25	3.83
3-4	0.73	0.68	2.75	0.00	2.66	85.94	11.40	3.95
4-5	0.75	0.68	3.34	0.00	3.51	81.09	15.40	4.25
5-6	0.74	0.68	3.98	0.00	3.44	75.63	20.93	4.34
6-7	0.74	0.64	4.62	0.00	3.92	76.27	19.81	4.17
7-8	0.74	0.64	5.26	0.00	6.31	82.06	11.63	4.20
8-9	0.73	0.64	5.92	0.00	3.78	79.01	17.21	3.91
9-10	0.71	0.64	6.62	0.00	2.23	86.62	11.15	4.09
10-11	0.73	0.63	7.28	0.00	1.91	75.20	22.89	4.02
11-12	0.74	0.63	7.92	0.00	3.14	80.06	16.80	3.95
12-13	0.73	0.67	8.58	0.00	3.90	75.90	20.20	3.81
13-14	0.73	0.67	9.25	0.00	6.51	80.78	12.71	4.05
14-15	0.73	0.67	9.92	0.00	5.64	84.33	10.03	3.82
15-16	0.73	0.67	10.58	0.00	3.19	83.66	13.15	3.93
16-17	0.73	0.62	11.25	0.00	2.62	85.29	12.09	3.90
17-18	0.73	0.62	11.92	0.00	3.99	77.21	18.80	3.93
18-19	0.74	0.65	12.57	0.00	3.66	84.76	11.58	3.60
19-20	0.73	0.65	13.22	0.00	2.63	75.50	21.87	3.65
20-22	0.73	0.63	14.53	0.00	8.06	77.99	13.95	3.67
22-24	0.72	0.68	15.88	0.00	4.47	82.87	12.66	4.03
24-26	0.72	0.70	17.26	0.00	5.26	85.11	9.63	4.48
26-28	0.73	0.68	18.59	0.00	5.58	83.19	11.23	3.90
28-30	0.71	0.73	20.01	0.00	3.96	81.62	14.42	3.87
30-32	0.71	0.74	21.42	0.00	4.23	83.54	12.23	3.78
32-34	0.72	0.74	22.77	0.00	3.90	83.40	12.70	3.95
34-36	0.72	0.75	24.14	0.00	3.14	78.30	18.56	3.91
36-38	0.70	0.78	25.59	0.00	4.23	81.97	13.80	4.20
38-40	0.70	0.77	27.07	0.00	5.54	81.67	12.79	4.07
40-45	0.69	0.78	30.90	0.00	6.58	79.88	13.54	3.59
45-50	0.68	0.69	34.78	0.00	2.96	84.01	13.03	3.12
50-55	0.69	0.71	38.56	0.00	3.29	82.51	14.20	3.67
55-60	0.69	0.77	42.29	0.00	3.85	84.26	11.89	3.84
60-65	0.68	0.87	46.23	0.00	3.00	82.00	15.00	2.86
65-70	0.66	0.91	50.49	0.00	4.99	82.88	12.13	2.13
70-75	0.64	1.15	54.95	0.00	4.60	85.16	10.24	1.59
75-80	0.63	0.93	59.54	0.00	8.61	80.42	10.97	1.79
80-85	0.61	0.95	64.40	0.00	25.21	65.64	9.15	1.48
85-90	0.61	1.20	69.29	43.86	6.94	43.99	5.21	1.36

Table 5-1A53: Summary physical data for sediment core ES_15A_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.83	0.34	0.41	--	0.81	86.58	12.61	3.03
1-2	0.83	0.34	0.84	--	0.54	86.06	13.40	2.97
2-3	0.81	0.40	1.31	--	1.59	88.31	10.10	2.87
3-4	0.81	0.40	1.77	--	1.13	86.53	12.34	2.94
4-5	0.82	0.38	2.22	--	2.28	83.21	14.51	2.93
5-6	0.82	0.38	2.66	--	7.69	79.19	13.12	2.77
6-7	0.81	0.34	3.14	--	3.44	84.79	11.77	2.77
7-8	0.79	0.34	3.66	--	1.11	87.43	11.46	2.87
8-9	0.79	0.33	4.19	--	0.67	83.49	15.84	--
9-10	0.77	0.33	4.75	--	0.43	84.16	15.41	2.84
10-11	0.77	0.52	5.31	--	1.82	81.11	17.07	2.84
11-12	0.78	0.52	5.86	--	0.85	69.38	29.77	2.81
12-13	0.78	0.50	6.41	--	5.19	45.38	49.43	2.85
13-14	0.76	0.50	7.02	--	1.03	77.56	21.41	--
14-15	0.77	0.50	7.57	--	0.47	46.21	53.32	2.90
15-16	0.78	0.50	8.12	--	0.88	79.91	19.21	2.86
16-17	0.77	0.53	8.69	--	0.42	88.10	11.48	2.87
17-18	0.77	0.53	9.25	--	3.36	48.69	47.95	2.85
18-19	0.76	0.55	9.84	--	0.41	83.55	16.04	2.84
19-20	0.75	0.55	10.44	--	1.41	78.94	19.65	2.87
20-22	0.75	0.62	11.69	--	0.78	78.23	20.99	2.62
22-24	0.75	0.59	12.93	--	0.79	84.84	14.37	2.53
24-26	0.74	0.60	14.21	--	0.83	72.53	26.64	2.29
26-28	0.74	0.59	15.50	--	1.10	81.55	17.35	2.11
28-30	0.73	0.63	16.82	--	0.54	84.73	14.73	2.09
30-32	0.73	0.64	18.17	--	0.79	71.67	27.54	1.98
32-34	0.73	0.64	19.50	--	0.38	86.62	13.00	1.97
34-36	0.73	0.59	20.82	--	0.24	85.45	14.31	2.06
36-38	0.73	0.55	22.18	--	0.87	82.02	17.11	1.98
38-40	0.73	0.59	23.51	--	1.07	73.24	25.69	1.85
40-45	0.75	0.55	26.60	--	0.36	83.40	16.24	1.90
45-50	0.76	0.55	29.61	--	0.52	84.60	14.88	1.92
50-55	0.75	0.54	32.66	--	0.37	44.83	54.80	1.95
55-60	0.75	0.55	35.80	--	0.68	66.16	33.16	1.88
60-65	0.75	0.62	38.94	--	0.54	74.12	25.34	1.90
65-70	0.73	0.58	42.25	--	0.87	77.53	21.60	1.90
70-75	0.72	0.52	45.72	--	0.87	74.02	25.11	1.87
75-80	0.71	0.62	49.25	--	0.59	69.18	30.23	1.87
80-85	0.71	0.65	52.78	--	0.10	72.37	27.53	1.84
85-90	0.71	0.64	56.33	--	0.69	72.61	26.70	1.83

Table 5-1A54: Summary physical data for sediment core ES_16C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.70	0.62	0.72	--	5.66	82.55	11.79	3.56
1-2	0.70	0.62	1.47	--	8.87	80.31	10.82	3.29
2-3	0.70	0.51	2.19	--	6.55	78.82	14.63	3.30
3-4	0.71	0.51	2.91	--	6.21	82.49	11.30	3.48
4-5	0.72	0.59	3.61	--	5.83	80.54	13.63	3.54
5-6	0.72	0.59	4.28	--	4.75	79.99	15.26	3.90
6-7	0.70	0.61	5.01	--	10.35	74.82	14.83	3.56
7-8	0.71	0.61	5.72	--	9.49	74.15	16.36	3.71
8-9	0.71	0.66	6.42	--	6.03	83.63	10.34	3.89
9-10	0.71	0.66	7.13	--	9.01	82.69	8.30	3.97
10-11	0.70	0.64	7.85	--	9.93	78.14	11.93	4.00
11-12	0.71	0.64	8.55	--	6.54	85.78	7.68	4.38
12-13	0.57	0.53	9.59	--	8.34	77.09	14.57	4.17
13-14	0.71	0.53	10.31	--	4.40	79.59	16.01	4.12
14-15	0.56	0.64	11.37	--	2.82	78.19	18.99	4.34
15-16	0.69	0.64	12.13	--	6.83	79.45	13.72	4.09
16-17	0.60	0.54	13.11	--	4.99	80.69	14.32	3.99
17-18	0.69	0.54	13.87	--	6.50	77.42	16.08	3.87
18-19	0.69	0.64	14.64	--	6.51	81.34	12.15	3.66
19-20	0.68	0.64	15.41	--	4.54	81.09	14.37	3.54
20-22	0.67	0.77	17.03	--	4.38	78.87	16.75	3.09
22-24	0.67	0.84	18.63	--	5.67	84.20	10.13	2.78
24-26	0.66	0.83	20.31	--	5.53	76.45	18.02	3.02
26-28	0.69	0.57	21.85	--	2.67	84.60	12.73	3.42
28-30	0.72	0.56	23.23	--	7.99	76.77	15.24	2.91
30-32	0.67	0.95	24.85	--	10.89	78.00	11.11	2.14
32-34	0.67	0.67	26.49	--	8.10	78.10	13.80	2.08
34-36	0.70	0.65	27.99	--	5.26	80.98	13.76	1.82
36-38	0.71	0.74	29.45	--	2.69	79.43	17.88	1.84
38-40	0.67	0.92	31.07	--	4.76	80.79	14.45	1.96
40-45	0.68	0.89	35.04	--	3.83	79.10	17.07	1.97
45-50	0.69	0.85	38.85	--	6.37	78.02	15.61	2.04
50-55	0.70	0.79	42.56	--	5.24	83.24	11.52	2.10
55-60	0.70	0.75	46.26	--	2.50	81.37	16.13	2.01
60-65	0.70	0.76	49.95	--	3.84	78.91	17.25	2.05
65-70	0.69	0.79	53.72	--	1.21	85.10	13.69	2.14
70-75	0.81	0.70	56.08	--	4.28	76.70	19.02	2.08
75-80	0.71	0.69	59.65	--	4.69	82.25	13.06	2.08
80-85	0.71	0.70	63.23	--	3.69	78.27	18.04	2.09
85-90	0.70	0.74	67.00	--	3.70	83.27	13.03	1.50

Table 5-1A55: Summary physical data for sediment core ES_17C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.91	0.25	0.21	--	2.23	83.73	14.04	5.01
1-2	0.91	0.25	0.43	--	--	--	--	5.11
2-3	0.91	0.30	0.66	--	2.52	85.55	11.93	4.92
3-4	0.91	0.30	0.88	--	--	--	--	--
4-5	0.89	0.30	1.16	--	1.09	85.35	13.56	--
5-6	0.89	0.30	1.43	--	--	--	--	--
6-7	0.90	0.27	1.67	--	0.94	87.27	11.79	4.83
7-8	0.90	0.27	1.92	--	--	--	--	--
8-9	0.90	0.31	2.16	--	0.37	90.45	9.18	--
9-10	0.88	0.31	2.46	--	--	--	--	--
10-11	0.89	0.41	2.73	--	1.83	86.19	11.98	--
11-12	0.89	0.41	3.01	--	--	--	--	--
12-13	0.88	0.31	3.31	--	2.48	84.51	13.01	5.29
13-14	0.89	0.31	3.59	--	--	--	--	--
14-15	0.89	0.35	3.87	--	0.99	87.24	11.77	--
15-16	0.88	0.35	4.16	--	--	--	--	--
16-17	0.89	0.35	4.43	--	1.16	89.11	9.73	--
17-18	0.87	0.35	4.75	--	--	--	--	--
18-19	0.85	0.41	5.12	--	1.11	88.36	10.53	--
19-20	0.86	0.41	5.47	--	--	--	--	--
20-22	0.86	0.43	6.17	--	1.40	89.34	9.26	--
22-24	0.85	0.42	6.91	--	4.75	83.97	11.28	5.77
24-26	0.85	0.42	7.63	--	5.04	86.28	8.68	6.22
26-28	0.85	0.35	8.36	--	1.39	88.38	10.23	6.51
28-30	0.85	0.40	9.07	--	1.15	90.93	7.92	6.99
30-32	0.85	0.39	9.80	--	3.49	86.16	10.35	6.72
32-34	0.84	0.44	10.62	--	9.20	82.17	8.63	--
34-36	0.84	0.45	11.37	--	3.29	85.14	11.57	6.68
36-38	0.82	0.43	12.22	--	3.34	82.01	14.65	6.51
38-40	0.82	0.45	13.10	--	4.86	84.75	10.39	6.05
40-45	0.77	0.48	15.91	--	4.98	85.59	9.43	4.50
45-50	0.71	0.66	19.48	--	7.40	81.33	11.27	2.77
50-55	0.70	0.83	23.22	--	26.41	66.82	6.77	--
55-60	0.71	0.74	26.87	--	2.56	83.15	14.29	--
60-65	0.70	0.77	30.55	--	5.12	74.99	19.89	2.14
65-70	0.70	0.97	34.25	--	13.81	76.08	10.11	1.99
70-75	0.67	0.95	38.42	--	7.47	82.83	9.70	--
75-80	0.60	1.01	43.30	--	23.51	69.50	6.99	2.03
80-85	0.63	0.96	47.90	--	16.33	76.06	7.61	1.83
85-90	0.65	0.83	52.26	--	26.56	66.99	6.45	2.07

Table 5-1A56: Summary physical data for sediment core ES_18B_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.55	1.04	1.09	--	26.29	68.93	4.78	2.56
1-2	0.57	1.04	2.17	--	28.08	62.60	9.32	2.08
2-3	0.63	1.05	3.06	--	16.13	73.09	10.78	5.10
3-4	0.65	1.05	3.91	--	18.40	73.12	8.48	3.76
4-5	0.63	1.16	4.81	--	18.06	67.13	14.81	3.44
5-6	0.62	1.16	5.75	--	26.47	62.52	11.01	3.70
6-7	0.60	1.19	6.73	--	26.40	67.57	6.03	3.31
7-8	0.62	1.19	7.66	--	24.44	69.66	5.90	4.04
8-9	0.60	1.15	8.64	--	18.27	67.36	14.37	3.00
9-10	0.58	1.15	9.67	--	33.29	57.26	9.45	2.75
10-11	0.58	1.11	10.67	--	21.07	69.28	9.65	5.41
11-12	0.58	1.11	11.70	--	24.21	62.56	13.23	5.22
12-13	0.58	1.11	12.73	--	23.85	68.80	7.35	2.57
13-14	0.59	1.11	13.75	--	18.03	70.02	11.95	2.63
14-15	0.59	1.07	14.77	--	17.55	73.47	8.98	2.44
15-16	0.57	1.07	15.82	--	21.52	65.76	12.72	2.52
16-17	0.53	1.18	16.97	--	27.77	62.16	10.07	1.75
17-18	0.52	1.18	18.16	--	22.93	68.64	8.43	1.70
18-19	0.51	1.23	19.37	--	13.40	72.77	13.83	1.92
19-20	0.52	1.23	20.54	--	30.03	60.66	9.31	1.59
20-22	0.51	1.05	22.94	--	23.67	70.16	6.17	1.73
22-24	0.53	1.07	25.26	--	14.98	74.49	10.53	1.73
24-26	0.50	1.10	27.73	--	10.65	82.14	7.21	1.37
26-28	0.59	1.13	29.77	--	18.55	73.23	8.22	1.56
28-30	0.61	1.00	31.72	--	18.00	74.11	7.89	1.53
30-32	0.58	1.10	33.80	--	34.38	60.03	5.59	1.74
32-34	0.51	1.11	36.25	--	35.18	59.11	5.71	1.08
34-36	0.53	1.42	38.59	--	20.38	71.08	8.54	1.33
36-38	0.50	1.16	41.08	--	35.16	59.34	5.50	1.06
38-40	0.50	0.99	43.55	--	35.92	57.51	6.57	1.03
40-45	0.57	1.01	48.83	--	23.90	67.91	8.19	1.67
45-50	0.54	1.09	54.46	--	22.03	68.70	9.27	1.71
50-55	0.56	1.13	59.96	--	13.99	74.60	11.41	1.58
55-60	0.56	1.08	65.36	--	33.80	54.02	12.18	2.41
60-65	0.55	1.04	70.92	--	23.79	68.56	7.65	1.43
65-70	0.55	1.10	76.54	--	19.34	69.52	11.14	1.49
70-75	0.55	1.19	82.13	--	28.66	59.40	11.94	1.41
75-80	0.53	1.16	87.90	--	23.29	66.25	10.46	1.20
80-85	0.53	1.21	93.67	--	29.96	63.90	6.14	1.29
85-90	0.61	1.30	98.51	--	30.54	62.78	6.68	1.45

Table 5-1A57: Summary physical data for sediment core ES_19C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.50	1.21	1.25	--	42.74	52.40	4.86	1.69
1-2	0.50	1.21	2.49	--	38.17	54.87	6.96	1.73
2-3	0.47	1.16	3.79	--	33.00	60.83	6.17	1.68
3-4	0.48	1.16	5.07	--	28.92	64.20	6.88	1.53
4-5	0.50	1.19	6.30	--	35.07	58.99	5.94	1.85
5-6	0.49	1.19	7.56	--	37.17	56.54	6.29	1.57
6-7	0.49	1.08	8.81	--	36.35	57.39	6.26	1.74
7-8	0.50	1.08	10.05	--	36.16	58.67	5.17	1.64
8-9	0.50	1.19	11.29	--	43.05	52.71	4.24	1.84
9-10	0.50	1.19	12.52	--	32.27	61.16	6.57	1.89
10-11	0.48	1.00	13.81	--	47.30	50.00	2.70	2.01
11-12	0.50	1.00	15.02	--	48.05	49.08	2.87	2.38
12-13	0.50	1.06	16.26	--	44.63	52.45	2.92	2.84
13-14	0.49	1.06	17.52	--	37.81	57.94	4.25	2.19
14-15	0.48	1.22	18.80	--	44.62	52.22	3.16	2.03
15-16	0.51	1.22	20.01	--	47.99	49.50	2.51	2.35
16-17	0.53	0.94	21.16	--	41.84	54.37	3.79	2.76
17-18	0.08	0.94	23.43	--	39.59	56.96	3.45	2.89
18-19	0.55	1.30	24.53	--	40.38	56.34	3.28	2.69
19-20	0.54	1.30	25.66	--	36.51	59.87	3.62	2.16
20-22	0.55	1.04	27.87	--	41.36	54.03	4.61	2.52
22-24	0.56	0.96	30.04	--	44.47	51.76	3.77	2.95
24-26	0.56	1.12	32.19	--	38.57	55.45	5.98	2.28
26-28	0.55	1.08	34.41	--	46.39	49.81	3.80	2.65
28-30	0.53	1.26	36.75	--	45.24	50.74	4.02	1.89
30-32	0.51	1.35	39.15	--	48.53	47.98	3.49	1.76
32-34	0.56	1.09	41.30	--	45.32	50.97	3.71	2.23
34-36	0.56	0.94	43.46	--	38.88	54.65	6.47	2.82
36-38	0.53	1.16	45.78	--	42.50	52.90	4.60	2.33
38-40	0.49	1.37	48.31	--	45.37	49.89	4.74	1.81
40-45	0.49	1.17	54.60	--	44.66	49.68	5.66	1.33
45-50	0.51	1.19	60.62	--	36.18	56.07	7.75	1.27
50-55	0.49	1.31	66.96	--	44.76	48.83	6.41	0.96
55-60	0.53	1.10	72.73	--	40.77	50.74	8.49	1.43
60-65	0.58	0.95	77.97	--	37.99	56.11	5.90	1.98
65-70	0.57	1.02	83.30	--	34.33	60.09	5.58	1.51
70-75	0.54	1.09	89.06	--	40.82	53.10	6.08	1.23
75-80	0.52	1.13	95.01	--	45.54	47.95	6.51	1.19
80-85	0.52	1.17	100.96	--	20.71	69.61	9.68	1.12
85-90	0.55	1.11	106.54	--	26.08	64.29	9.63	1.50

Table 5-1A58: Summary physical data for sediment core ES_20C_09V.

Depth interval (cm)	% Porosity	Dry bulk density (g/cm ³)	Cumulative mass depth (g/cm ²)	% Gravel	% Sand	% Silt	% Clay	% OC
0-1	0.75	0.62	0.61	--	3.91	82.17	13.92	4.57
1-2	0.75	0.62	1.23	--	6.83	80.26	12.91	--
2-3	0.75	0.64	1.84	--	12.04	75.21	12.75	4.54
3-4	0.76	0.64	2.46	--	10.08	79.38	10.54	--
4-5	0.75	0.60	3.06	--	5.56	79.82	14.62	4.52
5-6	0.77	0.60	3.62	--	3.83	83.34	12.83	--
6-7	0.75	0.61	4.22	--	7.31	79.55	13.14	4.23
7-8	0.76	0.61	4.82	--	3.26	84.38	12.36	--
8-9	0.75	0.64	5.42	--	7.25	79.39	13.36	4.39
9-10	0.75	0.64	6.06	--	8.01	80.63	11.36	--
10-11	0.74	0.66	6.71	--	6.67	79.38	13.95	--
11-12	0.73	0.66	7.39	--	5.17	82.17	12.66	--
12-13	0.73	0.65	8.07	--	5.94	80.70	13.36	--
13-14	0.72	0.65	8.74	--	4.71	81.46	13.83	5.06
14-15	0.74	0.64	9.37	--	6.32	79.19	14.49	5.16
15-16	0.74	0.64	10.00	--	4.55	83.06	12.39	5.21
16-17	0.74	0.65	10.64	--	4.54	83.47	11.99	--
17-18	0.74	0.65	11.28	--	4.52	82.96	12.52	--
18-19	0.73	0.55	11.94	--	49.14	47.16	3.70	4.76
19-20	0.74	0.55	12.56	--	5.18	79.80	15.02	5.43
20-22	0.74	0.56	13.80	--	5.29	81.40	13.31	5.28
22-24	0.75	0.63	15.01	--	27.60	63.71	8.69	5.61
24-26	0.74	0.64	16.25	--	7.33	79.92	12.75	5.66
26-28	0.75	0.63	17.45	--	12.18	76.95	10.87	5.24
28-30	0.73	0.62	18.77	--	6.31	79.45	14.24	4.47
30-32	0.73	0.61	20.11	--	5.84	78.36	15.80	4.02
32-34	0.73	0.65	21.44	--	6.00	81.42	12.58	--
34-36	0.71	0.68	22.88	--	5.76	79.19	15.05	3.52
36-38	0.71	0.68	24.31	--	5.81	78.43	15.76	--
38-40	0.72	0.67	25.71	--	4.53	83.63	11.84	--
40-45	0.70	0.70	29.46	--	4.28	81.27	14.45	--
45-50	0.68	0.77	33.45	--	6.52	80.85	12.63	--
50-55	0.69	0.77	37.30	--	4.96	82.02	13.02	2.46
55-60	0.68	0.77	41.27	--	19.45	75.12	5.43	--
60-65	0.70	0.79	45.00	--	15.88	73.75	10.37	--
65-70	0.70	0.76	48.74	--	8.27	78.63	13.10	2.37
70-75	0.68	0.70	52.79	--	7.87	80.33	11.80	--
75-80	0.66	0.79	57.00	--	6.37	82.35	11.28	--
80-85	0.65	0.81	61.35	--	7.19	78.96	13.85	2.00
85-90	0.67	0.78	65.47	--	6.22	80.62	13.16	--

APPENDIX 5-1B

Table 5-1B1: Discrete ($^{210}\text{Pb}_{\text{xs}}$, ^{137}Cs , total Hg, $^{239,240}\text{Pu}$) and mean sedimentation rates for stations in the Penobscot River and Mendall marsh.

Station	$^{210}\text{Pb}_{\text{xs}}$ rate (cm y^{-1})	^{137}Cs rate (cm y^{-1})	Total Hg rate (cm y^{-1})	$^{239,240}\text{Pu}$ rate (cm y^{-1})	Mean rate (cm y^{-1})
PBR_1.5B_09V	0.94	1.47	1.61	1.25	1.32
PBR_04C_09V	1.46	1.36	1.85	--	1.56
PBR_06C_09V	0.64	--	0.74	--	0.69
PBR_09A_09V	0.54	0.85	0.93	--	0.77
PBR_11B_09V	0.43	0.63	0.79	--	0.62
PBR_13B_09V	--	0.85	0.88	--	0.87
PBR_14CR_09V	0.66	0.85	1.01	--	0.84
PBR_10A_09V	0.58	0.72	0.83	--	0.71
PBR_16A_09V	0.49	0.42	0.42	0.36	0.42
PBR_05A_09V	0.32	0.67	0.79	0.85	0.66
PBR_17A_09V	0.73	0.80	0.83	--	0.79
PBR_18B_09V	0.41	0.40	0.44	--	0.42
PBR_19A_09V	1.14	1.03	1.25	--	1.14
PBR_20A_09V	0.49	0.27	0.30	--	0.35
PBR_21B_09V	0.68	0.21	0.18	--	0.36
PBR_21C_09V	0.48	0.27	0.39	--	0.38
PBR_23B_09V	0.94	--	0.35	--	0.65
PBR_26A_09V	0.22	--	0.18	--	0.20
PBR_25A_09V	0.36	0.10	0.08	--	0.18
PBR_27B_09V	0.61	1.03	1.01	--	0.88
PBR_28B_09V	0.24	0.32	0.37	0.34	0.32
PBR_29A_09V	0.42	0.36	0.39	--	0.39
PBR_30B_09V	0.25	0.34	0.32	--	0.30
PBR_31C_09V	0.21	0.59	0.64	--	0.48
MM_01B_09V	0.26	0.27	0.20	0.34	0.27
MM_02B_09V	0.95	1.25	1.61	--	1.27
MM_03B_09V	0.91	2.23	2.56	--	1.90
MM_04C_09V	0.36	0.63	0.55	--	0.51
MM_05C_09V	0.23	0.40	0.44	0.46	0.38
MM_06A_09V	0.38	0.54	0.50	--	0.47
MM_07A_09V	0.63	0.76	0.69	0.76	0.71
MM_08A_09V	0.45	0.42	0.37	0.40	0.41
MM_09B_09V	0.24	0.40	0.42	--	0.35
MM_11B_09V	0.08	0.10	0.08	--	0.09
MM_12C_09V	--	0.21	--	--	0.21

Table 5-1B2: Discrete ($^{210}\text{Pb}_{\text{xs}}$, ^{137}Cs , total Hg, $^{239,240}\text{Pu}$) and mean sedimentation rates for stations in the Orland River and Penobscot Estuary/Bay.

Station	$^{210}\text{Pb}_{\text{xs}}$ rate (cm y^{-1})	^{137}Cs rate (cm y^{-1})	Total Hg rate (cm y^{-1})	$^{239,240}\text{Pu}$ rate (cm y^{-1})	Mean rate (cm y^{-1})
OR_01B_09V	0.34	--	--	0.23	0.29
OR_02B_09V	0.55	0.23	0.35	0.25	0.35
OR_03A_09V	0.58	0.50	0.69	--	0.59
OR_05C_09V	0.32	0.63	0.74	--	0.56
OR_06B_09V	0.62	0.67	0.74	--	0.68
ES_19C_09V	0.48	0.38	0.69	0.38	0.48
ES_01B_09V	0.38	0.42	0.46	--	0.42
ES_18B_09V	0.19	0.03	0.08	--	0.10
ES_20C_09V	0.44	0.46	0.46	--	0.45
ES_02C_09V	0.56	0.46	0.64	0.54	0.55
ES_17C_09V	0.72	0.72	0.79	--	0.74
ES_03C_09V	0.17	0.12	0.12	--	0.14
ES_16C_09V	0.30	0.27	0.35	0.27	0.30
ES_04C_09V	0.16	0.14	0.27	0.18	0.19
ES_14C_09V	0.81	0.85	0.88	--	0.85
ES_06A_09V	0.25	0.25	0.20	--	0.23
ES_15A_09V	0.35	0.34	0.46	0.29	0.36
ES_13C_09V	0.16	0.16	0.23	0.12	0.17
ES_12C_09V	0.33	0.36	0.42	--	0.37
ES_07A_09V	0.19	0.16	0.15	--	0.17
ES_08A_09V	0.33	0.27	0.35	--	0.32
ES_08C_09V	0.47	0.40	0.39	--	0.42
ES_09C_09V	0.42	0.34	0.35	--	0.37

Table 5-1B3: Summary chemical and radiochemical data for sediment core MM_01B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	555.00	0.00	12.61	158.24	149.14	--
1-2	704.00	0.00	10.27	102.60	93.51	--
2-3	725.50	--	9.51	114.66	105.56	--
3-4	694.00	--	--	113.86	104.76	--
4-5	950.00	--	13.50	119.33	110.24	--
5-6	1030.00	--	--	101.19	92.09	1.27
6-7	1350.00	--	23.23	84.94	75.85	--
7-8	1550.00	--	--	76.71	67.62	--
8-9	1730.00	--	23.51	46.21	37.12	--
9-10	1510.00	--	--	44.17	35.08	--
10-11	1330.00	--	43.69	40.57	31.48	--
11-12	1330.00	--	--	48.93	39.83	3.83
12-13	1040.00	--	142.93	38.70	29.61	--
13-14	981.00	--	--	20.55	11.46	--
14-15	773.00	--	97.01	45.60	36.50	--
15-16	628.00	--	--	54.13	45.04	5.13
16-17	822.00	--	15.48	59.58	50.48	--
17-18	556.00	--	--	59.06	49.96	--
18-19	451.00	--	10.53	39.66	30.57	--
19-20	421.00	--	--	30.76	21.67	--
20-22	246.00	--	5.82	19.38	10.29	0.14
22-24	251.00	--	6.36	12.05	2.96	--
24-26	149.50	--	4.51	18.23	9.14	--
26-28	124.00	--	3.16	15.52	6.43	--
28-30	80.40	--	0.08	12.17	3.08	--
30-32	72.10	--	3.00	8.42	0.00	--
32-34	60.10	--	3.14	7.06	0.00	--
34-36	45.30	--	--	10.40	0.00	--
36-38	50.50	--	0.05	7.02	0.00	--
38-40	48.60	--	1.11	13.16	0.00	--
40-45	39.00	--	0.02	5.43	0.00	--
45-50	41.25	--	--	10.36	0.00	--
50-55	35.80	--	0.11	11.70	0.00	--
55-60	58.75	--	1.86	7.85	0.00	--
60-65	23.90	--	3.66	5.43	0.00	--
65-70	17.30	--	0.28	9.46	0.00	--
70-75	31.60	--	0.02	6.81	0.00	--
75-80	38.50	--	0.78	9.89	0.00	--
80-85	41.90	--	0.02	7.61	0.00	--
85-90	35.30	--	0.40	9.78	0.00	--

Table 5-1B4: Summary chemical and radiochemical data for sediment core MM_02B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	564.00	15.77	9.60	111.42	93.26	--
1-2	763.00	7.43	10.04	100.36	82.19	--
2-3	643.00	0.00	10.86	104.90	86.73	--
3-4	779.00	0.00	6.03	107.55	89.38	--
4-5	853.00	23.85	8.33	97.27	79.10	--
5-6	775.00	--	10.19	92.86	74.69	--
6-7	801.00	--	9.46	102.23	84.06	--
7-8	1090.00	--	8.96	96.57	78.41	--
8-9	1020.00	--	11.16	103.96	85.79	--
9-10	1060.00	--	10.04	102.48	84.32	--
10-11	1180.00	--	13.85	98.27	80.10	--
11-12	1070.00	--	10.25	100.69	82.52	--
12-13	1100.00	--	15.37	86.87	68.70	--
13-14	1300.00	--	12.79	82.97	64.81	--
14-15	1170.00	--	11.71	85.83	67.66	--
15-16	1370.00	--	13.44	75.02	56.85	--
16-17	1140.00	--	11.31	71.36	53.20	--
17-18	1190.00	--	16.44	82.05	63.88	--
18-19	995.00	--	12.53	73.26	55.10	--
19-20	1540.00	--	10.33	67.68	49.51	--
20-22	1340.00	--	11.83	64.44	46.28	--
22-24	1145.00	--	9.86	69.58	51.42	--
24-26	1160.00	--	11.13	58.12	39.95	--
26-28	1030.00	--	16.80	59.19	41.03	--
28-30	1550.00	--	16.38	52.19	34.03	--
30-32	1780.00	--	14.65	51.15	32.99	--
32-34	2160.00	--	16.89	52.06	33.90	--
34-36	2620.00	--	15.35	46.67	28.51	--
36-38	2410.00	--	17.25	44.21	26.05	--
38-40	2360.00	--	17.61	48.41	30.24	--
40-45	2035.00	--	19.09	46.92	28.76	--
45-50	2120.00	--	16.66	49.13	30.97	--
50-55	2550.00	--	19.44	44.15	25.98	--
55-60	3170.00	--	28.00	35.24	17.07	--
60-65	3860.00	--	27.92	34.05	15.88	--
65-70	4680.00	--	17.70	32.38	14.21	--
70-75	1950.00	--	13.31	27.40	9.24	--
75-80	2500.00	--	7.18	30.19	12.02	--
80-85	2390.00	--	2.98	28.25	10.08	--
85-90	1260.00	--	1.77	24.78	6.61	--

Table 5-1B5: Summary chemical and radiochemical data for sediment core MM_03B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	855.00	40.74	12.19	139.24	87.19	--
1-2	1050.00	0.00	11.59	144.64	92.59	--
2-3	1020.00	0.00	10.65	129.66	77.61	--
3-4	904.00	0.00	9.85	113.91	61.86	--
4-5	783.00	0.00	12.34	111.16	59.11	--
5-6	811.00	--	9.72	110.69	58.65	--
6-7	1030.00	--	11.00	91.30	39.26	--
7-8	1060.00	--	10.23	117.00	64.95	--
8-9	1060.00	--	11.21	122.30	70.25	--
9-10	1230.00	--	10.64	107.87	55.82	--
10-11	1140.00	--	11.61	99.02	46.97	--
11-12	878.00	--	11.92	86.20	34.15	--
12-13	1020.00	--	10.73	99.67	47.62	--
13-14	1045.00	--	11.98	96.56	44.51	--
14-15	1220.00	--	11.16	102.66	50.61	--
15-16	1590.00	--	13.13	107.07	55.03	--
16-17	1310.00	--	12.33	107.35	55.30	--
17-18	1820.00	--	12.23	82.99	30.94	--
18-19	1620.00	--	13.40	94.99	42.95	--
19-20	1260.00	--	12.40	101.79	49.75	--
20-22	1380.00	--	18.63	102.68	50.63	--
22-24	1230.00	--	16.78	104.54	52.49	--
24-26	1485.00	--	17.90	93.37	41.32	--
26-28	1680.00	--	17.75	80.21	28.16	--
28-30	1220.00	--	18.07	93.68	41.63	--
30-32	1410.00	--	14.23	75.67	23.62	--
32-34	1410.00	--	15.85	74.89	22.84	--
34-36	1320.00	--	12.83	76.28	24.23	--
36-38	1330.00	--	19.00	83.99	31.94	--
38-40	1350.00	--	12.05	70.72	18.67	--
40-45	1380.00	--	13.48	85.28	33.23	--
45-50	938.00	--	11.55	66.77	14.72	--
50-55	1345.00	--	12.44	52.75	0.70	--
55-60	1750.00	--	14.07	67.71	15.67	--
60-65	1700.00	--	12.85	60.58	8.54	--
65-70	1820.00	--	14.34	62.10	10.05	--
70-75	1880.00	--	15.73	57.19	5.15	--
75-80	1860.00	--	13.80	56.01	3.96	--
80-85	2150.00	--	16.31	49.25	0.00	--
85-90	2160.00	--	15.19	50.88	0.00	--

Table 5-1B6: Summary chemical and radiochemical data for sediment core MM_04C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	646.00	41.01	10.20	148.08	121.08	--
1-2	630.00	0.00	9.97	122.49	95.49	--
2-3	719.00	0.00	10.14	133.10	106.10	--
3-4	798.00	0.00	11.33	128.33	101.34	--
4-5	907.00	0.00	10.94	118.31	91.32	--
5-6	1110.00	--	12.24	120.42	93.42	--
6-7	1040.00	--	13.04	83.95	56.95	--
7-8	1100.00	--	13.91	89.93	62.93	--
8-9	1130.00	--	16.41	98.55	71.55	--
9-10	1250.00	--	14.85	89.64	62.64	--
10-11	968.00	--	12.79	68.81	41.81	--
11-12	1070.00	--	15.05	84.38	57.38	--
12-13	1230.00	--	14.15	79.74	52.74	--
13-14	1610.00	--	16.27	64.22	37.23	--
14-15	1810.00	--	16.19	61.98	34.98	--
15-16	1800.00	--	19.01	59.52	32.53	--
16-17	1770.00	--	18.65	51.86	24.86	--
17-18	1830.00	--	22.80	70.93	43.93	--
18-19	2560.00	--	20.44	60.13	33.13	--
19-20	2950.00	--	24.32	47.59	20.59	--
20-22	3780.00	--	23.40	50.92	23.93	--
22-24	5140.00	--	18.57	37.29	10.29	--
24-26	3925.00	--	22.77	36.81	9.81	--
26-28	2630.00	--	25.91	45.58	18.58	--
28-30	2950.00	--	33.36	38.96	11.97	--
30-32	2680.00	--	22.95	35.26	8.26	--
32-34	3330.00	--	19.01	33.99	6.99	--
34-36	2920.00	--	20.73	35.21	8.21	--
36-38	2560.00	--	8.10	29.74	2.74	--
38-40	1830.00	--	5.35	30.56	3.57	--
40-45	950.00	--	1.50	32.35	5.35	--
45-50	403.00	--	0.00	28.32	1.32	--
50-55	351.00	--	0.00	26.62	0.00	--
55-60	397.00	--	0.00	23.49	0.00	--
60-65	343.00	--	0.00	19.85	0.00	--
65-70	322.00	--	0.00	18.62	0.00	--
70-75	381.00	--	0.00	20.59	0.00	--
75-80	189.00	--	0.00	20.85	0.00	--
80-85	155.00	--	0.00	19.85	0.00	--
85-90	438.00	--	0.00	18.47	0.00	--

Table 5-1B7: Summary chemical and radiochemical data for sediment core MM_05C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	826.00	2.00	10.97	225.37	217.18	0.80
1-2	773.00	20.50	10.75	156.12	147.94	--
2-3	802.00	16.33	13.43	159.66	151.48	--
3-4	1090.00	2.00	12.31	148.57	140.39	1.52
4-5	1070.00	32.17	11.46	148.49	140.30	--
5-6	1090.00	--	12.70	144.75	136.57	--
6-7	1360.00	--	11.57	113.50	105.32	--
7-8	1310.00	--	11.86	128.12	119.93	2.93
8-9	1320.00	--	13.18	114.39	106.20	--
9-10	1280.00	--	17.00	93.42	85.24	--
10-11	1920.00	--	20.53	74.36	66.18	1.66
11-12	1725.00	--	15.58	75.46	67.28	--
12-13	1680.00	--	30.34	64.69	56.51	1.96
13-14	1840.00	--	19.84	58.32	50.14	--
14-15	1900.00	--	29.87	62.98	54.80	2.06
15-16	1930.00	--	29.73	52.32	44.14	--
16-17	2980.00	--	31.96	41.61	33.42	2.50
17-18	2930.00	--	42.50	65.42	57.24	--
18-19	3000.00	--	54.17	68.09	59.91	--
19-20	2140.00	--	38.00	72.39	64.21	2.82
20-22	2330.00	--	16.91	50.12	41.94	3.13
22-24	1580.00	--	10.34	26.83	18.64	2.44
24-26	596.00	--	3.95	16.69	8.51	0.83
26-28	444.00	--	3.46	22.65	14.47	0.61
28-30	474.00	--	4.26	24.93	16.74	--
30-32	378.00	--	5.27	16.60	8.41	1.74
32-34	289.00	--	2.54	21.12	12.94	0.21
34-36	359.00	--	0.15	19.78	11.60	--
36-38	291.00	--	--	19.05	10.87	0.01
38-40	263.00	--	--	15.21	7.03	0.00
40-45	172.00	--	--	11.84	3.66	--
45-50	115.50	--	--	8.95	0.00	--
50-55	70.30	--	--	8.35	0.00	--
55-60	33.40	--	--	5.73	0.00	--
60-65	31.10	--	--	7.99	0.00	--
65-70	34.40	--	--	6.23	0.00	--
70-75	31.20	--	--	6.92	0.00	--
75-80	33.20	--	--	6.94	0.00	--
80-85	30.40	--	--	8.71	0.00	--
85-90	27.60	--	--	8.89	0.00	--

Table 5-1B8: Summary chemical and radiochemical data for sediment core MM_06A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	678.00	35.61	10.12	207.23	184.01	--
1-2	622.00	0.00	10.01	142.07	118.85	--
2-3	781.00	11.69	8.47	159.60	136.38	--
3-4	750.00	8.44	9.81	156.67	133.46	--
4-5	941.00	0.00	13.05	104.35	81.13	--
5-6	1010.00	--	11.40	106.50	83.28	--
6-7	1170.00	--	11.57	91.85	68.63	--
7-8	1210.00	--	12.01	99.01	75.79	--
8-9	1220.00	--	14.87	87.91	64.70	--
9-10	1240.00	--	14.85	104.04	80.82	--
10-11	1030.00	--	12.91	97.72	74.50	--
11-12	1310.00	--	16.69	68.38	45.16	--
12-13	1140.00	--	17.03	71.55	48.33	--
13-14	1990.00	--	19.28	66.21	42.99	--
14-15	2260.00	--	20.10	63.25	40.03	--
15-16	1790.00	--	20.47	52.85	29.63	--
16-17	1580.00	--	22.63	55.76	32.54	--
17-18	1970.00	--	21.72	48.45	25.23	--
18-19	2990.00	--	24.19	51.50	28.28	--
19-20	2860.00	--	22.77	55.67	32.45	--
20-22	3270.00	--	26.05	48.20	24.99	--
22-24	2870.00	--	41.28	63.83	40.61	--
24-26	2510.00	--	45.09	52.59	29.37	--
26-28	2770.00	--	26.66	47.64	24.42	--
28-30	2200.00	--	19.71	45.06	21.84	--
30-32	2400.00	--	11.01	41.69	18.47	--
32-34	1450.00	--	3.00	42.09	18.87	--
34-36	665.00	--	2.36	31.76	8.54	--
36-38	421.00	--	1.50	33.41	10.19	--
38-40	345.00	--	0.00	35.15	11.93	--
40-45	367.00	--	0.00	28.34	5.12	--
45-50	370.00	--	0.00	25.70	2.49	--
50-55	339.00	--	0.00	21.77	0.00	--
55-60	518.00	--	0.00	23.85	0.00	--
60-65	198.00	--	0.00	23.79	0.00	--
65-70	164.00	--	0.00	20.73	0.00	--
70-75	109.00	--	0.00	18.04	0.00	--
75-80	112.00	--	0.00	20.00	0.00	--
80-85	103.00	--	0.00	16.06	0.00	--
85-90	111.00	--	0.00	17.59	0.00	--

Table 5-1B9: Summary chemical and radiochemical data for sediment core MM_07A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	626.00	--	11.02	115.43	104.66	1.12
1-2	708.00	--	11.70	--	--	--
2-3	759.00	--	16.16	--	--	--
3-4	1020.00	--	16.64	105.11	94.34	--
4-5	1230.00	--	12.13	107.60	96.83	--
5-6	1150.00	--	19.49	90.49	79.73	--
6-7	1400.00	--	17.88	82.96	72.19	1.18
7-8	1290.00	--	19.12	75.23	64.46	--
8-9	1710.00	--	18.52	65.93	55.16	--
9-10	1580.00	--	17.77	58.60	47.84	--
10-11	1460.00	--	16.34	54.22	43.46	--
11-12	1530.00	--	13.65	46.67	35.90	2.94
12-13	1480.00	--	15.23	44.26	33.50	--
13-14	1940.00	--	16.74	40.87	30.11	--
14-15	2670.00	--	13.37	56.32	45.56	--
15-16	1780.00	--	18.31	59.80	49.03	--
16-17	1340.00	--	20.05	51.04	40.28	--
17-18	1330.00	--	19.41	47.73	36.96	1.50
18-19	1380.00	--	22.99	48.90	38.14	--
19-20	1630.00	--	24.55	49.92	39.16	--
20-22	1740.00	--	19.63	34.44	23.67	1.15
22-24	2810.00	--	27.07	42.40	31.64	--
24-26	3280.00	--	24.32	35.75	24.99	--
26-28	4250.00	--	29.65	36.63	25.87	--
28-30	6310.00	--	24.06	34.45	23.69	3.71
30-32	4540.00	--	35.72	37.78	27.01	--
32-34	2750.00	--	44.92	30.88	20.11	3.49
34-36	2560.00	--	50.01	28.69	17.92	5.70
36-38	3660.00	--	30.50	24.58	13.82	1.93
38-40	3360.00	--	15.86	23.34	12.57	--
40-45	2255.00	--	6.15	22.44	11.67	0.07
45-50	578.00	--	1.46	19.68	8.92	--
50-55	412.00	--	1.57	18.49	7.72	0.06
55-60	452.00	--	0.01	15.03	4.27	--
60-65	445.00	--	0.01	12.11	1.34	--
65-70	417.00	--	0.01	11.96	1.19	--
70-75	339.00	--	0.05	11.94	1.18	--
75-80	276.00	--	0.02	11.35	0.00	--
80-85	247.00	--	0.02	10.86	0.00	--
85-90	176.00	--	0.02	10.09	0.00	--

Table 5-1B10: Summary chemical and radiochemical data for sediment core MM_08A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	574.00	--	9.96	88.53	81.40	--
1-2	643.00	--	11.93	118.00	110.86	--
2-3	634.00	--	18.87	98.66	91.53	--
3-4	859.00	--	--	88.50	81.36	0.58
4-5	1160.00	--	14.08	83.55	76.41	--
5-6	985.00	--	14.34	72.83	65.69	--
6-7	1080.00	--	19.04	71.70	64.56	1.23
7-8	969.00	--	16.06	80.30	73.16	--
8-9	1420.00	--	17.39	68.97	61.83	1.11
9-10	1610.00	--	4.56	64.25	57.11	--
10-11	1630.00	--	21.46	64.86	57.72	--
11-12	2160.00	--	22.66	59.35	52.21	--
12-13	2180.00	--	24.88	31.81	24.67	1.74
13-14	2190.00	--	22.21	40.42	33.28	--
14-15	3200.00	--	26.13	36.92	29.78	--
15-16	3860.00	--	36.54	35.37	28.23	--
16-17	3305.00	--	33.04	26.18	19.04	2.77
17-18	2990.00	--	31.63	33.85	26.71	--
18-19	2790.00	--	54.24	33.31	26.17	10.67
19-20	2860.00	--	70.86	21.82	14.69	7.12
20-22	3180.00	--	50.61	27.76	20.62	5.81
22-24	1023.50	--	34.86	29.92	22.78	--
24-26	885.00	--	13.21	13.34	6.20	1.51
26-28	276.00	--	3.64	21.34	14.20	--
28-30	282.00	--	3.38	15.95	8.82	0.35
30-32	270.00	--	--	21.08	13.94	--
32-34	442.00	--	2.39	17.65	10.51	--
34-36	354.00	--	--	13.23	6.09	--
36-38	350.00	--	--	13.67	6.53	--
38-40	220.00	--	--	12.23	5.09	--
40-45	308.00	--	--	10.83	3.69	--
45-50	191.00	--	--	9.54	2.40	--
50-55	90.45	--	--	9.54	2.40	--
55-60	94.70	--	--	7.66	0.00	1.45
60-65	46.60	--	--	7.51	0.00	--
65-70	44.00	--	--	8.82	0.00	--
70-75	41.80	--	--	5.08	0.00	--
75-80	34.30	--	--	--	--	--
80-85	27.30	--	--	--	--	--
85-90	29.40	--	--	--	--	0.53

Table 5-1B11: Summary chemical and radiochemical data for sediment core MM_09B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	471.00	41.81	14.52	227.27	218.71	--
1-2	475.00	6.37	9.91	199.36	190.81	--
2-3	632.00	0.00	18.35	178.26	169.71	--
3-4	583.00	0.00	10.57	158.03	149.47	--
4-5	898.00	0.00	12.11	131.31	122.76	--
5-6	1030.00	--	11.52	145.41	136.86	--
6-7	1000.00	--	16.96	167.11	158.56	--
7-8	1280.00	--	15.22	120.41	111.86	--
8-9	1320.00	--	16.52	96.26	87.71	--
9-10	1150.00	--	18.41	65.20	56.65	--
10-11	1885.00	--	19.96	46.16	37.61	--
11-12	1810.00	--	16.35	33.35	24.80	--
12-13	2460.00	--	23.78	44.48	35.93	--
13-14	1970.00	--	18.70	62.26	53.70	--
14-15	2790.00	--	26.92	79.24	70.69	--
15-16	4130.00	--	32.08	86.50	77.95	--
16-17	4050.00	--	23.09	49.64	41.08	--
17-18	4420.00	--	33.42	48.94	40.39	--
18-19	2560.00	--	63.55	61.47	52.92	--
19-20	3030.00	--	49.02	52.72	44.17	--
20-22	2290.00	--	36.13	39.73	31.18	--
22-24	1200.00	--	22.00	36.78	28.23	--
24-26	1550.00	--	3.16	35.67	27.11	--
26-28	318.00	--	3.63	19.73	11.18	--
28-30	477.00	--	2.30	21.97	13.42	--
30-32	191.00	--	--	18.81	10.26	--
32-34	309.00	--	--	20.30	11.75	--
34-36	303.00	--	--	15.14	6.59	--
36-38	292.00	--	--	17.22	8.67	--
38-40	184.00	--	--	11.97	3.42	--
40-45	235.00	--	--	14.63	6.07	--
45-50	51.40	--	--	9.86	1.31	--
50-55	32.80	--	--	9.63	1.08	--
55-60	62.00	--	--	7.84	0.00	--
60-65	28.90	--	--	7.00	0.00	--
65-70	37.05	--	--	7.59	0.00	--
70-75	24.70	--	--	9.59	0.00	--
75-80	39.30	--	--	8.36	0.00	--
80-85	34.70	--	--	9.67	0.00	--
85-90	29.20	--	--	7.63	0.00	--

Table 5-1B12: Summary chemical and radiochemical data for sediment core MM_11B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1080.00	0.00	11.22	77.75	67.45	5.75
1-2	968.00	0.00	13.99	76.40	66.09	--
2-3	1080.00	--	13.13	78.82	68.51	--
3-4	1200.00	--	--	80.86	70.56	1.58
4-5	1003.50	--	12.32	67.56	57.26	--
5-6	1090.00	--	11.74	64.05	53.74	--
6-7	794.00	--	12.80	46.65	36.35	1.57
7-8	397.00	--	2.60	17.51	7.21	0.13
8-9	259.00	--	5.78	12.93	2.63	0.65
9-10	156.00	--	1.15	10.28	0.00	0.00
10-11	156.00	--	0.88	7.63	0.00	--
11-12	105.00	--	0.90	8.58	0.00	--
12-13	112.50	--	1.33	8.08	0.00	0.00
13-14	95.70	--	0.50	9.02	0.00	--
14-15	63.30	--	0.01	9.11	0.00	--
15-16	57.60	--	1.85	8.47	0.00	0.12
16-17	50.70	--	1.45	7.95	0.00	--
17-18	61.50	--	1.44	8.04	0.00	--
18-19	48.30	--	0.01	7.16	0.00	--
19-20	37.40	--	0.02	7.49	0.00	--
20-22	33.50	--	0.96	7.81	0.00	--
22-24	35.55	--	0.02	8.06	0.00	--
24-26	38.40	--	1.35	6.86	0.00	--
26-28	36.80	--	0.13	5.58	0.00	--
28-30	31.20	--	1.35	8.39	0.00	0.06
30-32	30.50	--	0.13	--	--	--
32-34	31.90	--	0.57	6.73	0.00	--
34-36	28.30	--	0.81	7.92	0.00	--
36-38	27.30	--	0.02	7.02	0.00	--
38-40	29.30	--	0.02	8.82	0.00	--
40-45	26.70	--	1.29	6.83	0.00	--
45-50	24.00	--	1.80	5.35	0.00	0.04
50-55	20.40	--	1.12	5.29	0.00	--
55-60	21.50	--	0.02	9.77	0.00	--
60-65	24.30	--	0.05	9.67	0.00	--
65-70	22.50	--	0.66	10.24	0.00	--
70-75	26.80	--	1.01	9.67	0.00	0.05
75-80	25.90	--	0.90	10.81	0.00	--
80-85	29.70	--	0.02	10.43	0.00	0.00
85-90	25.90	--	0.01	--	--	--

Table 5-1B13: Summary chemical and radiochemical data for sediment core MM_12C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	88.20	0.00	1.00	7.88	0.00	--
1-2	35.55	0.00	0.33	10.74	1.65	--
2-3	61.40	0.00	0.67	9.20	0.11	--
3-4	20.60	0.00	2.33	4.41	0.00	--
4-5	16.70	0.00	0.33	9.11	0.02	--
5-6	15.70	--	0.17	6.85	0.00	--
6-7	17.30	--	0.00	10.03	0.95	--
7-8	17.30	--	0.00	6.85	0.00	--
8-9	20.00	--	1.83	9.02	0.00	--
9-10	16.10	--	3.00	8.95	0.00	--
10-11	15.75	--	1.17	5.83	0.00	--
11-12	14.50	--	0.83	6.69	0.00	--
12-13	24.60	--	0.17	10.88	1.79	--
13-14	24.10	--	0.00	6.65	0.00	--
14-15	25.65	--	0.00	6.43	0.00	--
15-16	30.70	--	0.00	6.68	0.00	--
16-17	26.10	--	0.00	7.76	0.00	--
17-18	25.80	--	0.33	9.02	0.00	--
18-19	19.40	--	0.00	8.96	0.00	--
19-20	25.50	--	0.17	7.89	0.00	--
20-22	18.15	--	0.00	5.54	0.00	--
22-24	20.20	--	1.17	8.45	0.00	--
24-26	17.00	--	0.00	7.70	0.00	--
26-28	18.00	--	1.17	11.00	1.91	--
28-30	19.20	--	0.00	9.27	0.18	--
30-32	17.20	--	1.67	8.20	0.00	--
32-34	15.10	--	0.00	8.35	0.00	--
34-36	18.40	--	0.50	11.60	2.51	--
36-38	16.40	--	0.02	9.85	0.76	--
38-40	17.10	--	1.33	8.62	0.00	--
40-45	15.90	--	0.00	10.15	1.06	--
45-50	16.05	--	1.67	10.94	1.85	--
50-55	16.40	--	0.00	10.49	1.41	--
55-60	15.80	--	0.17	6.78	0.00	--
60-65	13.30	--	1.50	10.82	1.73	--
65-70	15.70	--	0.00	7.25	0.00	--
70-75	18.80	--	0.50	7.89	0.00	--
75-80	14.60	--	0.00	10.64	1.55	--
80-85	15.10	--	0.83	7.79	0.00	--
85-90	12.70	--	0.17	8.83	0.00	--

Table 5-1B14: Summary chemical and radiochemical data for sediment core OR_01B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	577.00	--	6.47	32.25	23.19	7.51
1-2	416.00	--	4.78	29.86	20.79	--
2-3	133.00	--	1.57	18.54	9.48	--
3-4	91.60	--	0.57	10.26	1.20	--
4-5	77.60	--	2.37	10.24	1.18	--
5-6	74.30	--	1.08	11.71	2.64	--
6-7	79.00	--	1.93	11.50	2.43	--
7-8	110.00	--	0.59	10.57	1.50	--
8-9	148.00	--	2.47	9.79	0.72	--
9-10	116.00	--	0.02	10.46	1.39	--
10-11	90.60	--	1.29	8.30	0.00	8.50
11-12	63.30	--	0.02	8.62	0.00	--
12-13	61.00	--	0.04	8.33	0.00	--
13-14	68.80	--	0.01	8.95	0.00	--
14-15	52.40	--	0.04	8.89	0.00	--
15-16	47.00	--	0.05	8.36	0.00	--
16-17	97.70	--	1.96	8.86	0.00	0.00
17-18	45.30	--	0.03	7.18	0.00	--
18-19	57.90	--	0.69	8.45	0.00	--
19-20	46.60	--	0.02	7.08	0.00	--
20-22	70.10	--	0.02	8.56	0.00	--
22-24	54.00	--	0.01	9.46	0.40	--
24-26	49.70	--	0.63	9.66	0.59	--
26-28	43.10	--	2.82	0.00	0.00	0.00
28-30	48.60	--	0.12	8.91	0.00	--
30-32	93.00	--	1.71	9.01	0.00	--
32-34	41.90	--	0.72	8.86	0.00	--
34-36	35.60	--	2.35	9.89	0.82	5.07
36-38	45.90	--	0.11	8.69	0.00	--
38-40	28.30	--	0.31	7.52	0.00	--
40-45	28.30	--	0.99	8.72	0.00	--
45-50	32.50	--	1.44	9.41	0.34	0.46
50-55	24.30	--	0.03	7.93	0.00	--
55-60	23.10	--	1.96	7.71	0.00	0.15
60-65	18.00	--	2.95	8.41	0.00	0.26
65-70	16.20	--	0.11	8.97	0.00	--
70-75	17.20	--	1.45	11.10	2.03	0.21
75-80	17.50	--	0.09	8.35	0.00	0.33
80-85	16.90	--	0.12	8.42	0.00	--
85-90	17.60	--	0.12	10.43	1.36	--

Table 5-1B15: Summary chemical and radiochemical data for sediment core OR_02B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1930.00	--	15.15	45.40	35.83	1.20
1-2	1740.00	--	17.26	--	--	1.15
2-3	1780.00	--	15.30	45.36	35.79	--
3-4	1730.00	--	--	44.85	35.28	--
4-5	1820.00	--	11.68	44.34	34.77	1.22
5-6	1770.00	--	--	40.01	30.44	--
6-7	1670.00	--	12.11	42.48	32.91	--
7-8	1460.00	--	--	40.34	30.77	1.05
8-9	1640.00	--	9.45	35.06	25.49	--
9-10	1550.00	--	--	39.00	29.43	1.08
10-11	1925.00	--	14.53	39.54	29.97	--
11-12	2070.00	--	--	37.57	28.00	1.29
12-13	2200.00	--	14.34	35.95	26.38	--
13-14	2380.00	--	--	39.09	29.52	1.26
14-15	2640.00	--	7.85	23.00	13.43	--
15-16	1340.00	--	--	18.80	9.23	--
16-17	745.00	--	4.04	18.11	8.54	--
17-18	556.00	--	--	16.74	7.17	0.19
18-19	466.00	--	4.97	15.64	6.07	--
19-20	431.00	--	--	9.80	0.23	--
20-22	408.00	--	3.11	17.30	7.73	0.13
22-24	407.00	--	0.03	14.90	5.33	--
24-26	343.50	--	1.94	14.86	5.29	--
26-28	370.00	--	1.77	13.70	4.13	0.01
28-30	420.00	--	0.12	20.13	10.56	--
30-32	390.00	--	0.12	13.62	4.06	--
32-34	300.00	--	0.80	13.34	3.77	--
34-36	355.00	--	--	12.88	3.31	--
36-38	396.00	--	0.11	12.34	2.78	--
38-40	369.00	--	0.11	13.54	3.97	--
40-45	387.50	--	0.05	14.00	4.43	--
45-50	537.00	--	--	11.98	2.42	--
50-55	422.00	--	1.40	11.04	1.47	--
55-60	355.00	--	0.04	9.43	0.00	--
60-65	332.00	--	0.14	9.95	0.38	--
65-70	346.00	--	0.04	9.04	0.00	--
70-75	357.00	--	0.04	9.08	0.00	--
75-80	380.00	--	2.15	10.10	0.53	--
80-85	296.00	--	0.70	9.42	0.00	--
85-90	233.00	--	0.04	9.19	0.00	--

Table 5-1B16: Summary chemical and radiochemical data for sediment core OR_03A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1300.00	1.33	10.31	81.70	70.99	--
1-2	1665.00	0.00	6.70	77.24	66.53	--
2-3	1500.00	0.00	8.39	70.52	59.81	--
3-4	1640.00	0.09	7.32	61.07	50.36	--
4-5	1550.00	0.00	7.15	67.62	56.91	--
5-6	1640.00	--	5.28	60.45	49.74	--
6-7	1750.00	--	--	56.97	46.26	--
7-8	1510.00	--	14.25	61.85	51.14	--
8-9	1570.00	--	--	58.35	47.64	--
9-10	1730.00	--	15.43	58.67	47.96	--
10-11	1760.00	--	--	55.59	44.88	--
11-12	1650.00	--	14.90	61.62	50.91	--
12-13	1570.00	--	--	59.77	49.06	--
13-14	1550.00	--	10.76	64.21	53.50	--
14-15	1620.00	--	--	56.98	46.27	--
15-16	1540.00	--	13.83	60.13	49.42	--
16-17	1530.00	--	--	56.78	46.07	--
17-18	1750.00	--	9.64	54.74	44.03	--
18-19	1840.00	--	--	53.74	43.03	--
19-20	1880.00	--	9.52	57.16	46.45	--
20-22	1930.00	--	13.42	47.26	36.55	--
22-24	2100.00	--	14.90	50.00	39.29	--
24-26	2180.00	--	14.13	46.85	36.14	--
26-28	2350.00	--	14.55	29.70	18.99	--
28-30	3080.00	--	14.85	28.31	17.60	--
30-32	3040.00	--	9.66	26.97	16.26	--
32-34	2490.00	--	5.09	22.50	11.79	--
34-36	2200.00	--	5.29	17.59	6.88	--
36-38	1740.00	--	0.08	21.18	10.47	--
38-40	1400.00	--	0.00	16.94	6.23	--
40-45	397.50	--	2.90	16.81	6.10	--
45-50	310.00	--	4.17	14.02	3.30	--
50-55	404.00	--	--	15.88	5.17	--
55-60	371.00	--	1.83	16.99	6.28	--
60-65	346.00	--	--	11.82	1.11	--
65-70	358.00	--	--	11.97	1.26	--
70-75	258.00	--	0.00	7.92	0.00	--
75-80	228.00	--	--	10.74	0.03	--
80-85	189.00	--	--	11.44	0.73	--
85-90	200.00	--	1.50	9.95	0.00	--

Table 5-1B17: Summary chemical and radiochemical data for sediment core OR_05C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	754.00	0.00	12.00	111.98	99.22	--
1-2	888.00	24.33	11.33	126.17	113.41	--
2-3	1060.00	0.00	12.83	117.11	104.36	--
3-4	990.00	32.17	10.83	119.47	106.71	--
4-5	1050.00	0.00	9.50	116.47	103.72	--
5-6	1020.00	--	13.50	103.89	91.13	--
6-7	1020.00	--	--	98.24	85.49	--
7-8	1100.00	--	10.83	93.20	80.44	--
8-9	1190.00	--	--	85.11	72.35	--
9-10	1320.00	--	9.50	83.67	70.92	--
10-11	1230.00	--	--	82.06	69.30	--
11-12	1240.00	--	11.83	86.90	74.14	--
12-13	1210.00	--	--	83.04	70.29	--
13-14	1240.00	--	14.67	83.62	70.86	--
14-15	1360.00	--	--	80.51	67.76	--
15-16	1390.00	--	11.33	69.53	56.77	--
16-17	1540.00	--	--	61.97	49.22	--
17-18	1540.00	--	15.33	57.39	44.63	--
18-19	1750.00	--	--	53.07	40.31	--
19-20	2010.00	--	15.67	61.35	48.59	--
20-22	2130.00	--	--	59.09	46.34	--
22-24	2285.00	--	16.33	57.34	44.58	--
24-26	2680.00	--	17.67	50.81	38.06	--
26-28	2970.00	--	20.17	49.60	36.84	--
28-30	3930.00	--	22.50	48.59	35.83	--
30-32	4650.00	--	11.33	43.22	30.46	--
32-34	3605.00	--	18.83	35.07	22.31	--
34-36	3300.00	--	10.83	26.05	13.29	--
36-38	1950.00	--	11.00	17.13	4.37	--
38-40	1450.00	--	0.83	23.15	10.40	--
40-45	407.50	--	0.00	18.00	5.24	--
45-50	83.60	--	--	10.25	0.00	--
50-55	23.40	--	--	7.66	0.00	--
55-60	19.70	--	--	9.54	0.00	--
60-65	20.20	--	--	9.71	0.00	--
65-70	20.40	--	--	9.41	0.00	--
70-75	20.00	--	--	12.09	0.00	--
75-80	22.30	--	--	14.45	1.69	--
80-85	20.20	--	--	11.75	0.00	--
85-90	19.60	--	--	12.07	0.00	--

Table 5-1B18: Summary chemical and radiochemical data for sediment core OR_06B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	947.00	65.76	9.43	106.48	87.88	--
1-2	1175.00	0.00	8.68	74.95	56.36	--
2-3	928.00	0.00	9.89	117.09	98.50	--
3-4	920.00	0.00	9.04	99.96	81.37	--
4-5	1170.00	0.00	9.82	98.81	80.22	--
5-6	987.00	--	10.64	109.03	90.44	--
6-7	1170.00	--	9.28	60.19	41.60	--
7-8	1070.00	--	9.29	86.64	68.04	--
8-9	1330.00	--	9.42	83.00	64.41	--
9-10	1320.00	--	9.59	91.76	73.17	--
10-11	1325.00	--	10.71	56.21	37.62	--
11-12	1270.00	--	7.79	99.77	81.18	--
12-13	1270.00	--	11.36	93.45	74.86	--
13-14	1270.00	--	11.16	107.94	89.35	--
14-15	1380.00	--	13.29	97.99	79.40	--
15-16	1530.00	--	11.86	108.01	89.42	--
16-17	1630.00	--	13.85	130.14	111.54	--
17-18	1560.00	--	12.30	105.74	87.15	--
18-19	1520.00	--	12.90	122.20	103.61	--
19-20	1500.00	--	11.78	110.42	91.82	--
20-22	1150.00	--	9.82	87.85	69.26	--
22-24	1360.00	--	7.97	70.83	52.24	--
24-26	1150.00	--	6.38	51.50	32.91	--
26-28	2010.00	--	14.71	44.90	26.31	--
28-30	2540.00	--	18.46	40.16	21.57	--
30-32	4510.00	--	24.38	50.37	31.77	--
32-34	4215.00	--	15.94	34.50	15.91	--
34-36	3170.00	--	15.44	33.40	14.81	--
36-38	3550.00	--	9.77	29.82	11.23	--
38-40	2170.00	--	5.19	23.15	4.56	--
40-45	517.00	--	0.00	22.84	4.25	--
45-50	286.50	--	0.00	22.07	3.48	--
50-55	285.00	--	0.00	16.75	0.00	--
55-60	215.00	--	0.00	15.45	0.00	--
60-65	77.10	--	0.00	18.66	0.07	--
65-70	75.20	--	0.00	19.69	1.10	--
70-75	50.90	--	0.00	20.42	1.83	--
75-80	57.70	--	0.00	18.61	0.01	--
80-85	67.40	--	0.00	19.66	1.07	--
85-90	70.90	--	0.00	17.51	0.00	--

Table 5-1B19: Summary chemical and radiochemical data for sediment core PBR_1.5B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	42.20	--	24.16	45.40	35.83	--
1-2	68.40	--	21.60	--	--	--
2-3	67.90	--	25.11	45.36	35.79	1.50
3-4	74.00	--	--	44.85	35.28	--
4-5	87.20	--	24.84	44.34	34.77	1.45
5-6	97.20	--	23.35	40.01	30.44	1.77
6-7	99.80	--	27.84	42.48	32.91	--
7-8	68.30	--	24.76	40.34	30.77	--
8-9	69.00	--	25.06	35.06	25.49	0.27
9-10	82.90	--	28.06	39.00	29.43	1.75
10-11	97.40	--	27.27	39.54	29.97	--
11-12	105.00	--	21.15	37.57	28.00	--
12-13	64.50	--	21.48	35.95	26.38	0.79
13-14	85.00	--	24.13	39.09	29.52	--
14-15	88.00	--	23.19	23.00	13.43	--
15-16	73.70	--	25.25	18.80	9.23	--
16-17	79.30	--	22.91	18.11	8.54	0.22
17-18	67.40	--	19.60	16.74	7.17	--
18-19	80.10	--	28.49	15.64	6.07	--
19-20	119.00	--	29.95	9.80	0.23	--
20-22	88.80	--	33.37	17.30	7.73	--
22-24	105.00	--	33.72	14.90	5.33	0.30
24-26	170.00	--	42.24	14.86	5.29	--
26-28	235.00	--	50.71	13.70	4.13	--
28-30	192.00	--	52.63	20.13	10.56	0.51
30-32	105.00	--	51.64	13.62	4.06	--
32-34	194.00	--	51.83	13.34	3.77	--
34-36	234.00	--	62.73	12.88	3.31	0.89
36-38	201.00	--	49.31	12.34	2.78	--
38-40	71.60	--	21.73	13.54	3.97	0.55
40-45	92.90	--	1.26	14.00	4.43	0.10
45-50	178.00	--	1.60	11.98	2.42	1.21
50-55	409.00	--	5.31	11.04	1.47	0.00
55-60	442.00	--	8.80	9.43	0.00	0.53
60-65	922.00	--	11.99	9.95	0.38	0.17
65-70	1270.00	--	19.34	9.04	0.00	1.17
70-75	470.00	--	7.30	9.08	0.00	0.64
75-80	496.00	--	3.13	10.10	0.53	--
80-85	437.00	--	3.57	9.42	0.00	0.13
85-90	112.00	--	--	9.19	0.00	--

Table 5-1B20: Summary chemical and radiochemical data for sediment core PBR_04C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	108.00	--	23.36	68.91	45.33	--
1-2	120.00	--	26.12	57.65	34.07	--
2-3	112.00	--	28.00	78.07	54.48	--
3-4	114.00	--	39.67	59.04	35.45	--
4-5	134.00	--	27.96	63.12	39.53	--
5-6	143.00	--	27.97	65.37	41.78	--
6-7	136.00	--	28.02	53.96	30.38	--
7-8	141.00	--	27.83	52.59	29.00	--
8-9	160.00	--	31.17	52.66	29.08	--
9-10	170.00	--	36.49	69.71	46.12	--
10-11	141.00	--	35.15	63.90	40.31	--
11-12	162.00	--	29.60	43.31	19.72	--
12-13	125.00	--	30.87	46.61	23.03	--
13-14	141.00	--	42.54	61.57	37.98	--
14-15	178.00	--	44.71	63.94	40.36	--
15-16	163.00	--	49.19	74.08	50.49	--
16-17	194.00	--	45.95	55.45	31.87	--
17-18	226.00	--	45.57	55.55	31.97	--
18-19	183.00	--	47.39	64.07	40.49	--
19-20	191.00	--	58.61	68.60	45.02	--
20-22	263.00	--	63.86	60.27	36.69	--
22-24	207.00	--	36.28	91.75	68.17	--
24-26	262.00	--	71.40	37.27	13.69	--
26-28	186.00	--	58.66	35.59	12.01	--
28-30	234.00	--	41.59	18.49	0.00	--
30-32	107.00	--	29.03	19.52	0.00	--
32-34	247.00	--	36.68	20.72	0.00	--
34-36	349.00	--	60.15	27.35	3.76	--
36-38	251.00	--	52.76	--	--	--
38-40	197.00	--	64.63	--	--	--
40-45	315.00	--	73.15	37.81	14.23	--
45-50	574.00	--	80.38	41.11	17.52	--
50-55	744.00	--	80.03	59.64	36.06	--
55-60	486.00	--	95.72	44.50	20.92	--
60-65	1170.00	--	162.22	57.43	33.84	--
65-70	1560.00	--	133.05	41.98	18.40	--
70-75	2540.00	--	39.57	27.26	3.68	--
75-80	2790.00	--	19.41	20.05	0.00	--
80-85	1500.00	--	7.27	23.76	0.18	--
85-90	717.00	--	1.85	26.94	3.35	--

Table 5-1B21: Summary chemical and radiochemical data for sediment core PBR_05A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1750.00	--	18.16	94.50	68.55	--
1-2	1640.00	--	16.88	98.94	72.99	--
2-3	1640.00	--	16.40	94.71	68.77	--
3-4	1040.00	--	--	67.53	41.58	--
4-5	2250.00	--	11.01	120.88	94.93	1.24
5-6	1950.00	--	--	80.41	54.46	--
6-7	1720.00	--	15.91	61.39	35.44	--
7-8	1750.00	--	--	85.53	59.59	--
8-9	1630.00	--	20.52	92.89	66.94	--
9-10	1690.00	--	--	98.82	72.88	1.09
10-11	1860.00	--	14.72	95.86	69.91	--
11-12	1381.60	--	--	68.29	42.34	--
12-13	1830.00	--	20.46	94.27	68.32	0.00
13-14	2130.00	--	--	86.57	60.62	0.00
14-15	2230.00	--	20.41	88.86	62.91	1.60
15-16	2190.00	--	--	84.33	58.38	--
16-17	1990.00	--	17.47	90.11	64.17	--
17-18	2150.00	--	--	84.10	58.15	--
18-19	1920.00	--	20.48	99.42	73.47	--
19-20	1900.00	--	--	91.53	65.58	--
20-22	1925.00	--	14.80	87.16	61.21	--
22-24	1840.00	--	17.93	62.09	36.15	--
24-26	2700.00	--	23.83	72.39	46.44	--
26-28	5160.00	--	23.66	58.68	32.74	--
28-30	7380.00	--	23.45	39.29	13.34	--
30-32	6260.00	--	31.03	50.18	24.23	1.97
32-34	46300.00	--	28.77	36.32	10.38	--
34-36	22800.00	--	--	36.94	10.99	2.66
36-38	963.00	--	16.44	18.70	0.00	0.46
38-40	330.00	--	2.18	20.11	0.00	9.67
40-45	74.30	--	0.14	25.90	0.00	--
45-50	16.90	--	--	24.90	0.00	0.00
50-55	8.89	--	0.04	23.75	0.00	--
55-60	8.43	--	0.78	25.49	0.00	0.15
60-65	6.79	--	0.09	25.25	0.00	--
65-70	9.02	--	0.01	19.88	0.00	--
70-75	11.50	--	0.08	25.19	0.00	--
75-80	4.98	--	0.01	27.53	1.58	--
80-85	4.12	--	0.01	23.64	0.00	--
85-90	4.31	--	0.24	26.67	0.72	--

Table 5-1B22: Summary chemical and radiochemical data for sediment core PBR_06C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	140.00	--	15.50	36.67	27.67	--
1-2	126.00	--	13.67	33.83	24.83	--
2-3	155.00	--	13.17	34.83	25.83	--
3-4	369.00	--	9.17	26.67	17.67	--
4-5	265.00	--	10.17	30.83	21.83	--
5-6	237.00	--	18.33	25.67	16.67	--
6-7	358.00	--	19.17	30.67	21.67	--
7-8	427.00	--	17.00	30.17	21.17	--
8-9	588.00	--	18.67	31.67	22.67	--
9-10	485.00	--	17.83	29.33	20.33	--
10-11	1060.00	--	20.17	32.83	23.83	--
11-12	1260.00	--	17.17	15.67	6.67	--
12-13	1440.00	--	9.00	16.00	7.00	--
13-14	1730.00	--	3.83	15.00	6.00	--
14-15	2105.00	--	0.00	15.67	6.67	--
15-16	2640.00	--	0.83	15.67	6.67	--
16-17	1640.00	--	3.17	13.50	4.50	--
17-18	1330.00	--	1.50	18.17	9.17	--
18-19	2430.00	--	1.00	19.17	10.17	--
19-20	2540.00	--	2.00	16.33	7.33	--
20-22	1080.00	--	2.83	14.00	5.00	--
22-24	2150.00	--	0.67	15.00	6.00	--
24-26	1430.00	--	--	11.33	2.33	--
26-28	933.00	--	0.00	10.67	1.67	--
28-30	1740.00	--	--	9.83	0.83	--
30-32	2580.00	--	1.33	9.83	0.83	--
32-34	1510.00	--	--	6.17	0.00	--
34-36	1280.00	--	0.00	6.33	0.00	--
36-38	909.00	--	--	8.50	0.00	--
38-40	952.00	--	--	7.17	0.00	--
40-45	248.00	--	--	9.00	0.00	--
45-50	171.00	--	--	9.33	0.33	--
50-55	156.00	--	--	8.83	0.00	--
55-60	191.00	--	--	8.17	0.00	--
60-65	80.80	--	--	8.67	0.00	--
65-70	85.80	--	--	10.83	1.83	--
70-75	43.85	--	--	10.67	1.67	--
75-80	125.00	--	--	10.00	1.00	--
80-85	78.30	--	--	7.50	0.00	--
85-90	43.70	--	--	9.50	0.50	--

Table 5-1B23: Summary chemical and radiochemical data for sediment core PBR_09A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1976.50	--	18.40	37.29	27.41	--
1-2	468.00	--	14.97	30.14	20.26	--
2-3	1290.00	--	14.32	30.62	20.74	--
3-4	452.00	--	19.52	30.08	20.20	--
4-5	584.00	--	17.61	30.00	20.12	--
5-6	454.00	--	17.58	31.02	21.13	--
6-7	461.00	--	15.84	33.10	23.22	--
7-8	449.00	--	15.94	31.23	21.35	--
8-9	454.00	--	16.12	33.07	23.18	--
9-10	337.00	--	15.17	26.82	16.94	--
10-11	323.00	--	13.81	18.85	8.97	--
11-12	1050.00	--	13.38	32.84	22.96	--
12-13	1010.50	--	13.07	20.46	10.58	--
13-14	341.00	--	14.43	20.56	10.68	--
14-15	236.00	--	14.30	20.97	11.09	--
15-16	275.00	--	14.38	14.54	4.65	--
16-17	380.00	--	15.53	12.81	2.92	--
17-18	386.00	--	--	14.39	4.51	--
18-19	498.00	--	--	--	--	--
19-20	469.00	--	13.78	5.50	0.00	--
20-22	737.00	--	15.62	5.47	0.00	--
22-24	703.75	--	12.59	13.08	3.19	--
24-26	691.00	--	12.68	3.48	0.00	--
26-28	1640.00	--	13.65	5.51	0.00	--
28-30	498.00	--	21.54	4.47	0.00	--
30-32	995.00	--	17.33	7.78	0.00	--
32-34	793.00	--	21.38	14.80	4.92	--
34-36	357.00	--	16.30	10.59	0.71	--
36-38	329.00	--	21.23	5.65	0.00	--
38-40	828.00	--	41.08	11.64	1.76	--
40-45	334.00	--	35.85	5.46	0.00	--
45-50	322.50	--	19.82	10.88	1.00	--
50-55	540.00	--	18.91	4.89	0.00	--
55-60	909.00	--	14.08	12.36	2.47	--
60-65	493.00	--	2.47	6.56	0.00	--
65-70	482.00	--	0.03	7.53	0.00	--
70-75	326.00	--	0.80	4.58	0.00	--
75-80	597.00	--	1.60	10.29	0.41	--
80-85	305.00	--	0.58	9.31	0.00	--
85-90	307.00	--	2.24	10.04	0.16	--

Table 5-1B24: Summary chemical and radiochemical data for sediment core PBR_10A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	507.00	--	12.39	84.48	76.24	--
1-2	656.00	--	--	107.43	99.19	--
2-3	566.00	--	12.48	74.36	66.13	--
3-4	1080.00	--	--	74.81	66.58	--
4-5	1050.00	--	11.19	69.10	60.86	--
5-6	1200.00	--	--	71.49	63.25	--
6-7	1220.00	--	14.91	89.82	81.58	--
7-8	1290.00	--	--	94.93	86.69	--
8-9	1900.00	--	10.71	89.74	81.50	--
9-10	1730.00	--	--	103.65	95.42	--
10-11	1590.00	--	14.62	105.93	97.69	--
11-12	1620.00	--	--	109.41	101.17	--
12-13	1410.00	--	12.15	93.98	85.74	--
13-14	1570.00	--	--	87.53	79.29	--
14-15	1210.00	--	14.87	84.18	75.94	--
15-16	1270.00	--	--	76.33	68.09	--
16-17	1340.00	--	15.40	85.67	77.44	--
17-18	1740.00	--	--	106.84	98.60	--
18-19	1600.00	--	13.65	105.72	97.48	--
19-20	1730.00	--	--	99.61	91.37	--
20-22	1706.60	--	14.99	100.73	92.49	--
22-24	1360.00	--	--	85.88	77.64	--
24-26	1350.00	--	14.72	71.34	63.10	--
26-28	1950.00	--	--	78.71	70.48	--
28-30	1570.00	--	18.62	62.88	54.64	--
30-32	1960.00	--	--	54.54	46.30	--
32-34	2790.00	--	19.62	72.71	64.47	--
34-36	3870.00	--	--	37.90	29.66	--
36-38	3130.00	--	19.45	51.32	43.08	--
38-40	1380.00	--	21.85	50.63	42.39	--
40-45	394.00	--	16.49	13.72	5.48	--
45-50	438.50	--	2.03	20.78	12.55	--
50-55	206.00	--	1.12	11.19	2.95	--
55-60	24.90	--	--	5.53	0.00	--
60-65	29.00	--	0.00	7.64	0.00	--
65-70	37.60	--	--	8.76	0.52	--
70-75	36.70	--	0.00	10.35	2.11	--
75-80	31.10	--	--	8.46	0.22	--
80-85	29.40	--	--	6.57	0.00	--
85-90	27.20	--	2.32	9.68	1.44	--

Table 5-1B25: Summary chemical and radiochemical data for sediment core PBR_11B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	646.00	--	16.05	110.02	101.89	--
1-2	601.00	--	--	102.81	94.67	--
2-3	591.00	--	16.08	104.04	95.90	--
3-4	1320.00	--	--	101.84	93.70	--
4-5	864.00	--	15.09	117.87	109.74	--
5-6	416.00	--	--	107.97	99.83	--
6-7	965.00	--	20.10	99.33	91.19	--
7-8	444.00	--	--	80.66	72.52	--
8-9	593.00	--	12.32	79.72	71.58	--
9-10	337.00	--	--	80.54	72.41	--
10-11	259.00	--	19.25	73.26	65.13	--
11-12	242.50	--	--	69.24	61.10	--
12-13	289.00	--	21.90	60.06	51.92	--
13-14	333.00	--	--	74.06	65.92	--
14-15	466.00	--	20.57	57.08	48.94	--
15-16	1110.00	--	--	68.85	60.72	--
16-17	615.00	--	26.24	52.76	44.62	--
17-18	336.00	--	--	37.00	28.86	--
18-19	240.00	--	17.12	25.18	17.04	--
19-20	1060.00	--	31.62	34.42	26.29	--
20-22	470.00	--	34.24	40.44	32.31	--
22-24	717.00	--	54.98	35.87	27.73	--
24-26	737.00	--	60.99	40.02	31.88	--
26-28	880.00	--	74.19	31.46	23.32	--
28-30	1300.00	--	76.47	31.92	23.78	--
30-32	1390.00	--	61.50	35.51	27.37	--
32-34	1960.00	--	61.16	39.18	31.04	--
34-36	1760.00	--	61.85	34.57	26.44	--
36-38	1930.00	--	74.18	37.29	29.15	--
38-40	1680.00	--	66.38	33.86	25.72	--
40-45	1460.00	--	15.23	31.82	23.68	--
45-50	114.00	--	--	6.94	0.00	--
50-55	190.00	--	2.95	10.94	2.80	--
55-60	45.50	--	--	6.01	0.00	--
60-63	23.20	--	0.00	7.47	0.00	--

Table 5-1B26: Summary chemical and radiochemical data for sediment core PBR_13B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1130.00	--	10.34	59.88	43.43	--
1-2	131.00	--	9.67	48.89	32.44	--
2-3	112.00	--	6.69	17.46	1.01	--
3-4	120.00	--	19.66	16.34	0.00	--
4-5	63.90	--	21.71	13.25	0.00	--
5-6	53.70	--	15.24	13.35	0.00	--
6-7	160.00	--	22.49	14.11	0.00	--
7-8	228.00	--	22.27	14.40	0.00	--
8-9	215.00	--	13.21	15.87	0.00	--
9-10	309.00	--	12.45	14.82	0.00	--
10-11	278.00	--	0.92	17.01	0.57	--
11-12	254.00	--	8.12	13.76	0.00	--
12-13	50.60	--	1.51	14.07	0.00	--
13-14	124.00	--	2.54	13.95	0.00	--
14-15	250.00	--	9.89	14.89	0.00	--
15-16	116.00	--	7.96	14.14	0.00	--
16-17	30.30	--	3.57	11.95	0.00	--
17-18	30.50	--	1.54	--	--	--
18-19	32.90	--	2.04	9.39	0.00	--
19-20	62.10	--	2.37	11.18	0.00	--
20-22	77.90	--	6.69	--	--	--
22-24	278.00	--	--	9.36	0.00	--
24-26	367.00	--	3.76	--	--	--
26-28	223.00	--	6.60	18.01	1.57	--
28-30	229.00	--	5.93	18.65	2.21	--
30-32	192.00	--	9.20	16.97	0.53	--
32-34	596.00	--	6.59	17.17	0.72	--
34-36	433.00	--	6.12	16.14	0.00	--
36-38	1310.00	--	5.53	25.45	9.01	--
38-40	623.00	--	8.47	23.60	7.16	--
40-45	457.00	--	4.31	20.74	4.29	--
45-50	78.20	--	3.16	18.78	2.33	--
50-55	220.00	--	0.47	17.48	1.03	--
55-60	226.00	--	0.42	17.29	0.84	--
60-65	279.00	--	0.38	20.05	3.60	--
65-70	273.00	--	0.00	18.13	1.68	--
70-75	153.00	--	0.05	18.22	1.77	--
75-80	213.00	--	0.96	13.70	0.00	--
80-85	167.00	--	2.57	19.83	3.38	--
85-90	200.00	--	0.74	15.81	0.00	--

Table 5-1B27: Summary chemical and radiochemical data for sediment core PBR_14RC_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1310.00	--	15.56	71.07	47.77	--
1-2	1580.00	--	13.83	84.73	61.43	--
2-3	1660.00	--	17.21	104.37	81.07	--
3-4	1710.00	--	--	107.10	83.80	--
4-5	1860.00	--	15.62	105.63	82.33	--
5-6	1960.00	--	--	109.64	86.34	--
6-7	1870.00	--	14.92	110.77	87.47	--
7-8	1680.00	--	--	112.87	89.57	--
8-9	2080.00	--	17.50	117.40	94.10	--
9-10	2100.00	--	--	106.48	83.18	--
10-11	1800.00	--	14.75	113.23	89.93	--
11-12	1950.00	--	--	103.10	79.80	--
12-13	1702.00	--	14.80	110.62	87.32	--
13-14	1470.00	--	--	102.52	79.22	--
14-15	1490.00	--	18.43	111.12	87.82	--
15-16	1470.00	--	--	97.35	74.06	--
16-17	1430.00	--	18.04	93.25	69.95	--
17-18	1070.00	--	--	83.18	59.88	--
18-19	1380.00	--	21.98	73.81	50.51	--
19-20	1310.00	--	--	83.51	60.21	--
20-22	1100.00	--	15.94	68.70	45.40	--
22-24	833.00	--	15.88	36.88	13.58	--
24-26	1600.00	--	10.22	33.09	9.79	--
26-28	2780.00	--	16.44	56.65	33.35	--
28-30	751.00	--	17.06	24.15	0.85	--
30-32	488.00	--	16.94	19.34	0.00	--
32-34	1660.00	--	16.20	43.31	20.02	--
34-36	1830.00	--	26.51	37.52	14.22	--
36-38	2300.00	--	31.71	49.26	25.96	--
38-40	2750.00	--	27.95	38.46	15.16	--
40-45	4260.00	--	32.40	27.06	3.76	--
45-50	607.00	--	2.23	25.26	1.96	--
50-54	338.00	--	1.68	17.58	0.00	--

Table 5-1B28: Summary chemical and radiochemical data for sediment core PBR_16A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1001.00	4.80	13.24	70.50	58.17	1.67
1-2	1670.00	1.11	11.21	93.00	80.67	--
2-3	1160.00	0.00	12.47	74.83	62.50	--
3-4	1940.00	0.00	17.16	77.50	65.17	1.45
4-5	1830.00	0.18	21.28	82.50	70.17	--
5-6	2160.00	--	15.04	64.00	51.67	1.19
6-7	2460.00	--	--	66.83	54.50	1.52
7-8	2750.00	--	25.04	57.00	44.67	--
8-9	5920.00	--	--	73.33	61.00	--
9-10	7990.00	--	24.05	59.00	46.67	--
10-11	7550.00	--	--	49.33	37.00	0.53
11-12	12950.00	--	18.85	40.00	27.67	1.44
12-13	6780.00	--	--	57.00	44.67	2.66
13-14	4750.00	--	27.93	61.83	49.50	--
14-15	4870.00	--	--	55.00	42.67	--
15-16	10800.00	--	25.94	42.50	30.17	1.29
16-17	16600.00	--	31.55	39.50	27.17	3.49
17-18	73300.00	--	37.36	41.33	29.00	2.32
18-19	67750.00	--	38.39	34.67	22.33	--
19-20	18700.00	--	48.60	28.17	15.83	2.75
20-22	4010.00	--	33.39	24.50	12.17	--
22-24	2350.00	--	6.36	19.50	7.17	0.00
24-26	3730.00	--	1.25	16.33	4.00	0.00
26-28	191.00	--	--	9.00	0.00	0.14
28-30	190.00	--	--	6.67	0.00	0.17
30-32	895.00	--	--	18.33	6.00	--
32-34	194.00	--	--	6.83	0.00	--
34-36	117.00	--	--	4.67	0.00	0.00
36-38	42.20	--	--	5.33	0.00	--
38-40	20.20	--	--	7.00	0.00	0.54
40-45	12.40	--	--	7.83	0.00	--
45-50	9.16	--	--	19.00	6.67	--
50-55	6.38	--	--	8.17	0.00	--
55-60	5.57	--	--	11.17	0.00	--
60-65	4.42	--	--	13.00	0.67	--
65-70	3.53	--	--	18.50	6.17	--
70-75	12.2	--	--	9.83	0.00	--
75-80	5.36	--	--	11.67	0.00	--
80-85	4.61	--	--	13.67	1.33	--
85-90	6.48	--	--	11.67	0.00	--

Table 5-1B29: Summary chemical and radiochemical data for sediment core PBR_17A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	634.00	0.00	16.30	118.08	105.45	--
1-2	858.50	0.00	18.24	108.59	95.96	--
2-3	1190.00	0.00	17.81	109.42	96.79	--
3-4	1690.00	0.00	16.84	93.48	80.85	--
4-5	1730.00	0.00	16.96	105.34	92.71	--
5-6	2050.00	0.00	15.55	114.34	101.71	--
6-7	2030.00	0.00	18.27	103.55	90.92	--
7-8	1950.00	0.00	14.92	99.69	87.06	--
8-9	2130.00	0.00	15.91	101.92	89.29	--
9-10	1760.00	0.00	15.85	90.81	78.18	--
10-11	1355.00	0.00	15.41	94.19	81.56	--
11-12	1380.00	0.00	9.88	77.90	65.27	--
12-13	1550.00	0.00	13.33	69.94	57.31	--
13-14	1360.00	0.00	15.30	79.21	66.58	--
14-15	1580.00	--	--	66.06	53.43	--
15-16	1550.00	0.00	13.12	34.61	21.98	--
16-17	1650.00	0.00	14.32	78.59	65.96	--
17-18	1720.00	0.00	12.72	73.62	60.98	--
18-19	1710.00	0.00	15.98	55.11	42.47	--
19-20	1620.00	0.00	17.94	57.21	44.58	--
20-22	1310.00	0.00	13.90	47.56	34.93	--
22-24	1870.00	0.00	17.25	--	--	--
24-26	2640.00	0.00	20.67	49.10	36.47	--
26-28	2520.00	0.00	22.35	52.31	39.68	--
28-30	2550.00	0.00	22.22	39.18	26.55	--
30-32	3100.00	0.00	17.73	39.81	27.18	--
32-34	2760.00	0.00	22.52	44.33	31.70	--
34-36	4850.00	0.00	17.40	--	--	--
36-38	3200.00	0.00	30.00	35.02	22.39	--
38-40	2670.00	0.00	19.31	40.68	28.05	--
40-45	2510.00	0.00	22.48	26.57	13.94	--
45-50	987.50	0.00	8.17	14.94	2.31	--
50-55	311.00	0.00	0.00	11.59	--	--
55-60	609.00	0.00	2.47	16.73	4.10	--
60-65	3020.00	0.00	20.62	--	--	--
65-70	4340.00	0.00	26.75	45.72	33.09	--
70-75	3000.00	0.00	26.76	36.09	23.46	--
75-80	981.00	0.00	4.18	15.00	2.37	--
80-85	249.00	0.00	0.00	11.89	0.00	--
85-90	64.10	0.00	0.00	11.01	0.00	--

Table 5-1B30: Summary chemical and radiochemical data for sediment core PBR_18B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	969.00	13.26	11.69	87.50	73.12	--
1-2	1040.00	0.00	12.41	111.88	97.50	--
2-3	1120.00	0.00	10.56	95.15	80.77	--
3-4	812.00	0.00	11.68	68.55	54.17	--
4-5	901.00	0.00	15.73	56.26	41.88	--
5-6	1490.00	0.00	12.21	55.55	41.17	--
6-7	1860.00	0.00	15.03	51.03	36.64	--
7-8	1660.00	0.00	14.61	61.28	46.90	--
8-9	1740.00	0.00	17.03	63.90	49.52	--
9-10	1780.00	0.00	17.22	61.19	46.80	--
10-11	1830.00	0.00	19.74	75.05	60.67	--
11-12	1700.00	0.00	18.70	85.71	71.33	--
12-13	1710.00	0.00	16.97	82.32	67.94	--
13-14	1750.00	0.00	16.24	74.01	59.63	--
14-15	1720.00	0.00	15.04	62.16	47.78	--
15-16	1570.00	0.00	14.31	67.46	53.08	--
16-17	1370	0.00	16.30	65.76	51.38	--
17-18	1490	0.00	15.31	66.23	51.85	--
18-19	2320	0.00	21.65	60.89	46.51	--
19-20	1300	0.00	19.07	51.27	36.89	--
20-22	1200.00	0.00	15.52	29.05	14.67	--
22-24	75.40	0.00	1.40	11.76	0.00	--
24-26	40.50	0.00	0.00	7.92	0.00	--
26-28	86.10	0.00	0.00	10.81	0.00	--
28-30	65.80	0.00	0.00	11.05	0.00	--
30-32	67.20	0.00	0.00	9.29	0.00	--
32-34	68.20	0.00	0.00	11.62	0.00	--
34-36	55.10	0.00	0.00	11.15	0.00	--
36-38	44.30	0.00	0.00	10.14	0.00	--
38-40	53.30	0.00	0.00	11.82	0.00	--
40-45	52.10	0.00	0.00	10.33	0.00	--
45-50	42.40	0.00	0.00	14.97	0.58	--
50-55	24.80	0.00	0.00	15.57	1.19	--
55-60	25.40	0.00	0.00	11.87	0.00	--
60-65	37.40	0.00	0.00	15.65	1.27	--
65-70	25.30	0.00	0.00	16.49	2.11	--
70-75	35.00	0.00	0.00	15.63	1.25	--
75-80	23.60	0.00	0.00	15.42	1.04	--
80-85	25.40	0.00	0.00	12.13	0.00	--
85-90	26.20	0.00	0.00	15.59	1.21	--

Table 5-1B31: Summary chemical and radiochemical data for sediment core PBR_19A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	643.00	--	7.79	52.36	31.36	--
1-2	1240.00	--	--	102.24	81.24	--
2-3	1315.00	--	12.02	108.84	87.85	--
3-4	1650.00	--	--	81.91	60.91	--
4-5	2350.00	--	17.55	79.34	58.35	--
5-6	3050.00	--	--	67.69	46.70	--
6-7	2470.00	--	12.81	69.02	48.02	--
7-8	2740.00	--	--	61.46	40.47	--
8-9	2360.00	--	21.65	68.03	47.03	--
9-10	2180.00	--	--	62.62	41.62	--
10-11	2500.00	--	15.94	56.38	35.39	--
11-12	2900.00	--	--	70.00	49.00	--
12-13	2830.00	--	19.30	57.06	36.06	--
13-14	2580.00	--	--	64.41	43.41	--
14-15	2710.00	--	22.92	52.97	31.97	--
15-16	3020.00	--	--	52.32	31.32	--
16-17	2060.00	--	11.54	52.25	31.25	--
17-18	3840.00	--	--	42.36	21.37	--
18-19	3280.00	--	13.14	46.90	25.91	--
19-20	4120.00	--	--	51.20	30.21	--
20-22	3120.00	--	19.23	49.59	28.60	--
22-24	4110.00	--	--	45.45	24.46	--
24-26	3963.00	--	21.84	49.66	28.66	--
26-28	3510.00	--	--	49.15	28.16	--
28-30	4020.00	--	25.82	59.16	38.16	--
30-32	1350.00	--	--	56.60	35.61	--
32-34	1520.00	--	13.24	98.83	77.84	--
34-36	1560.00	--	--	85.52	64.52	--
36-38	2080.00	--	17.98	68.03	47.04	--
38-40	1950.00	--	--	50.13	29.14	--
40-45	2630.00	--	17.16	46.91	25.92	--
45-50	5310.00	--	27.78	43.49	22.50	--
50-55	6440.00	--	19.77	16.87	0.00	--
55-60	146.00	--	1.26	32.55	11.55	--
60-62	42.40	--	0.00	13.57	0.00	--

Table 5-1B32: Summary chemical and radiochemical data for sediment core PBR_20A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	430.00	--	8.47	26.09	18.13	--
1-2	601.00	--	6.41	29.88	21.91	--
2-3	789.00	--	10.84	34.95	26.99	--
3-4	535.00	--	11.15	32.16	24.19	--
4-5	794.00	--	12.26	25.70	17.73	--
5-6	604.00	--	12.77	25.23	17.26	--
6-7	1550.00	--	16.02	17.90	9.94	--
7-8	1840.00	--	16.72	20.16	12.19	--
8-9	1310.00	--	14.68	20.16	12.19	--
9-10	1610.00	--	17.83	17.97	10.01	--
10-11	1365.00	--	20.97	14.78	6.81	--
11-12	1630.00	--	24.13	18.31	10.35	--
12-13	3560.00	--	24.71	7.73	0.00	--
13-14	1500.00	--	22.52	--	--	--
14-15	1720.00	--	18.07	10.94	2.97	--
15-16	1800.00	--	9.78	14.51	6.54	--
16-17	1300.00	--	8.92	16.11	8.14	--
17-18	1510.00	--	5.84	13.20	5.23	--
18-19	1620.00	--	2.06	13.89	5.93	--
19-20	1230.00	--	0.04	11.46	3.49	--
20-22	314.00	--	1.51	11.44	3.47	--
22-24	278.00	--	0.03	10.15	2.19	--
24-26	335.00	--	0.04	9.10	1.14	--
26-28	279.00	--	0.29	11.94	3.97	--
28-30	228.00	--	0.14	7.93	0.00	--
30-32	353.00	--	0.06	14.21	6.25	--
32-34	198.00	--	4.37	10.55	2.59	--
34-36	189.00	--	0.06	12.42	4.45	--
36-38	161.00	--	0.13	9.88	1.91	--
38-40	110.00	--	0.13	11.75	3.78	--
40-45	93.50	--	0.04	10.21	2.24	--
45-50	31.15	--	0.02	9.03	1.06	--
50-55	28.90	--	0.72	7.66	0.00	--
55-60	33.30	--	3.33	8.08	0.11	--
60-65	20.90	--	0.93	8.51	0.54	--
65-70	18.40	--	0.24	7.58	0.00	--
70-75	16.20	--	0.04	7.82	0.00	--
75-80	19.80	--	--	--	--	--
80-85	13.50	--	0.01	8.50	0.53	--
85-90	13.90	--	--	--	--	--

Table 5-1B33: Summary chemical and radiochemical data for sediment core PBR_21B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	406.00	0.00	6.52	57.19	48.44	--
1-2	1130.00	0.00	8.18	44.82	36.08	--
2-3	1555.00	0.00	10.80	33.22	24.47	--
3-4	1540.00	0.00	6.80	30.52	21.78	--
4-5	1610.00	0.00	7.87	33.24	24.50	--
5-6	1730.00	0.00	8.93	32.32	23.58	--
6-7	2010.00	0.00	6.84	23.22	14.47	--
7-8	2670.00	0.00	8.18	31.57	22.83	--
8-9	2100.00	0.00	9.66	26.76	18.02	--
9-10	1240.00	0.00	11.81	30.14	21.40	--
10-11	1420.00	0.00	9.13	38.77	30.03	--
11-12	887.00	0.00	5.24	27.78	19.04	--
12-13	432.00	0.00	1.84	19.64	10.90	--
13-14	419.00	0.00	2.06	20.88	12.13	--
14-15	277.00	0.00	0.99	19.80	11.06	--
15-16	314.00	0.00	0.00	19.71	10.97	--
16-17	432.00	0.00	0.00	19.02	10.27	--
17-18	249.00	0.00	0.00	15.07	6.32	--
18-19	329.00	0.00	0.00	17.75	9.01	--
19-20	484.00	0.00	0.00	15.45	6.71	--
20-22	1325.20	0.00	1.81	17.00	8.26	--
22-24	108.00	0.00	0.00	14.63	5.89	--
24-26	118.00	0.00	0.00	10.28	1.54	--
26-28	109.00	0.00	0.00	10.59	1.85	--
28-30	60.30	0.00	0.00	16.66	7.92	--
30-32	74.30	0.00	0.00	13.89	5.15	--
32-34	70.10	0.00	0.00	12.82	4.08	--
34-36	53.50	0.00	0.00	15.33	6.59	--
36-38	94.70	0.00	0.00	16.78	8.04	--
38-40	35.70	0.00	0.00	9.03	0.29	--
40-45	97.80	0.00	0.00	9.76	1.02	--
45-50	59.20	0.00	0.00	9.66	0.91	--
50-55	62.80	0.00	0.00	9.81	1.07	--
55-60	93.20	0.00	0.00	18.63	9.89	--
60-65	110.00	0.00	0.00	19.68	10.94	--
65-70	49.20	0.00	0.00	9.20	0.46	--
70-75	54.60	0.00	0.00	9.41	0.66	--
75-80	39.30	0.00	0.00	9.44	0.69	--
80-85	59.00	0.00	0.00	8.80	0.06	--
85-90	34.10	0.00	0.00	7.99	0.00	--

Table 5-1B34: Summary chemical and radiochemical data for sediment core PBR_21C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	294.00	0.00	10.32	48.73	34.17	--
1-2	485.50	0.00	6.63	28.37	13.81	--
2-3	512.00	0.00	6.73	24.54	9.98	--
3-4	936.00	0.00	8.59	26.52	11.96	--
4-5	669.00	0.00	8.61	27.65	13.09	--
5-6	981.00	0.00	9.71	27.77	13.21	--
6-7	965.00	0.00	7.52	24.55	10.00	--
7-8	863.00	0.00	11.53	26.53	11.98	--
8-9	982.00	0.00	10.67	28.32	13.77	--
9-10	1460.00	0.00	11.07	23.06	8.50	--
10-11	1100.00	0.00	13.24	31.66	17.10	--
11-12	1450.00	0.00	16.69	29.71	15.15	--
12-13	1490.00	0.00	16.79	25.31	10.76	--
13-14	3855.00	0.00	15.15	22.07	7.51	--
14-15	3000.00	0.00	13.44	22.56	8.00	--
15-16	3170.00	0.00	10.63	20.11	5.55	--
16-17	4050.00	0.00	2.72	19.28	4.72	--
17-18	2830.00	0.00	1.35	16.82	2.27	--
18-19	400.00	0.00	0.62	14.78	0.22	--
19-20	186.00	0.00	0.43	13.59	0.00	--
20-22	148.80	0.00	0.00	12.17	0.00	--
22-24	155.00	0.00	0.00	12.05	0.00	--
24-26	126.00	0.00	0.00	18.41	3.86	--
26-28	82.40	0.00	0.00	12.70	0.00	--
28-30	156.00	0.00	0.00	11.39	0.00	--
30-32	81.70	0.00	0.00	12.19	0.00	--
32-34	83.10	0.00	0.00	11.06	0.00	--
34-36	61.60	0.00	0.00	11.19	0.00	--
36-38	68.10	0.00	0.00	10.61	0.00	--
38-40	78.20	0.00	0.00	13.08	0.00	--
40-45	77.70	0.00	0.00	15.13	0.57	--
45-50	89.00	0.00	0.00	17.00	2.44	--
50-55	48.90	0.00	0.00	14.57	0.01	--
55-60	48.10	0.00	0.00	16.88	2.32	--
60-65	58.00	0.00	0.00	18.20	3.64	--
65-70	73.90	0.00	0.00	13.76	0.00	--
70-75	40.90	0.00	0.00	13.60	0.00	--
75-80	55.60	0.00	0.00	13.68	0.00	--
80-85	34.30	0.00	0.00	14.98	0.42	--
85-90	37.80	0.00	0.00	15.01	0.45	--

Table 5-1B35: Summary chemical and radiochemical data for sediment core PBR_23B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	404.00	--	7.83	34.96	23.93	--
1-2	767.50	--	12.08	42.25	31.22	--
2-3	798.00	--	7.23	47.24	36.21	--
3-4	1060.00	--	9.18	31.62	20.59	--
4-5	1790.00	--	4.07	33.85	22.82	--
5-6	2050.00	--	4.01	27.65	16.62	--
6-7	1950.00	--	--	27.71	16.68	--
7-8	1980.00	--	1.00	30.88	19.85	--
8-9	1970.00	--	--	32.28	21.25	--
9-10	2770.00	--	2.00	29.74	18.71	--
10-11	2240.00	--	3.79	23.93	12.90	--
11-12	2700.00	--	5.77	28.25	17.22	--
12-13	1995.00	--	2.62	24.99	13.96	--
13-14	2190.00	--	2.04	26.02	14.99	--
14-15	3020.00	--	2.24	--	--	--
15-16	2540.00	--	0.08	29.89	18.86	--
16-17	2310.00	--	0.00	17.70	6.67	--
17-18	1570.00	--	0.00	14.95	3.92	--
18-19	1390.00	--	0.00	22.15	11.12	--
19-20	1890.00	--	0.64	21.34	10.31	--
20-22	1460.00	--	0.00	22.55	11.52	--
22-24	1360.00	--	0.00	23.25	12.22	--
24-26	1565.00	--	0.00	24.03	13.01	--
26-28	901.00	--	0.00	24.36	13.33	--
28-30	760.00	--	0.15	26.70	15.67	--
30-32	1190.00	--	0.09	23.77	12.74	--
32-34	1150.00	--	0.00	24.88	13.85	--
34-36	956.00	--	2.52	25.46	14.43	--
36-38	704.00	--	0.00	22.74	11.71	--
38-40	508.00	--	0.00	--	--	--
40-45	408.00	--	1.86	24.38	13.35	--
45-50	443.00	--	0.00	26.42	15.39	--
50-55	611.00	--	0.90	21.07	10.04	--
55-60	393.00	--	0.00	21.44	10.41	--
60-65	325.00	--	0.00	20.30	9.27	--
65-70	152.00	--	0.86	11.11	0.08	--
70-75	32.60	--	0.54	11.07	0.04	--
75-80	23.00	--	0.00	--	--	--
80-85	28.60	--	1.46	10.61	0.00	--
85-90	22.40	--	0.04	11.41	0.38	--

Table 5-1B36: Summary chemical and radiochemical data for sediment core PBR_25A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	814.00	--	8.82	108.64	93.21	--
1-2	959.00	--	11.26	86.42	71.00	--
2-3	858.00	--	8.30	67.67	52.25	--
3-4	1920.00	--	11.32	76.45	61.02	--
4-5	1250.00	--	13.90	85.46	70.04	--
5-6	1080.00	--	13.69	85.81	70.38	--
6-7	916.00	--	10.49	67.23	51.80	--
7-8	714.00	--	9.72	51.13	35.71	--
8-9	899.00	--	10.19	55.35	39.92	--
9-10	652.00	--	9.52	51.12	35.70	--
10-11	795.00	--	12.22	45.42	29.99	--
11-12	1400.00	--	8.57	62.37	46.95	--
12-13	540.00	--	10.18	55.35	39.92	--
13-14	392.00	--	6.29	31.79	16.36	--
14-15	1100.00	--	--	24.93	9.50	--
15-16	1100.00	--	--	21.69	6.26	--
16-17	775.00	--	--	16.19	0.77	--
17-18	424.00	--	2.91	11.90	0.00	--
18-19	259.00	--	--	9.79	0.00	--
19-20	314.00	--	--	9.72	0.00	--
20-22	339.00	--	--	10.61	0.00	--
22-24	250.00	--	--	11.13	0.00	--
24-26	48.80	--	--	11.57	0.00	--
26-28	49.70	--	0.14	11.64	0.00	--
28-30	22.70	--	--	11.43	0.00	--
30-32	19.40	--	--	12.11	0.00	--
32-34	22.30	--	--	13.30	0.00	--
34-36	20.60	--	--	16.08	0.66	--
36-38	15.80	--	--	13.49	0.00	--
38-40	17.10	--	--	16.57	1.14	--
40-45	16.20	--	--	13.10	0.00	--
45-50	17.40	--	--	13.69	0.00	--
50-55	18.40	--	0.04	15.33	0.00	--
55-60	17.00	--	--	15.47	0.05	--
60-65	18.80	--	--	17.61	2.18	--
65-70	19.60	--	--	13.76	0.00	--
70-75	18.00	--	--	19.18	3.76	--
75-80	21.00	--	--	14.15	0.00	--
80-85	23.60	--	--	16.41	0.99	--
85-90	18.10	--	0.04	15.71	0.29	--

Table 5-1B37: Summary chemical and radiochemical data for sediment core PBR_26A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1030.00	--	12.09	57.43	43.69	--
1-2	806.50	--	14.31	61.57	47.83	--
2-3	646.00	--	12.35	46.22	32.48	--
3-4	521.00	--	10.66	32.06	18.32	--
4-5	657.00	--	2.35	23.54	9.79	--
5-6	976.00	--	9.12	23.10	9.36	--
6-7	1300.00	--	7.93	13.27	0.00	--
7-8	1340.00	--	5.37	15.27	1.53	--
8-9	1160.00	--	0.65	8.53	0.00	--
9-10	998.00	--	0.70	8.62	0.00	--
10-11	450.50	--	0.47	7.71	0.00	--
11-12	298.00	--	0.53	7.48	0.00	--
12-13	350.00	--	--	6.66	0.00	--
13-14	145.00	--	--	7.14	0.00	--
14-15	35.70	--	--	12.33	0.00	--
15-16	26.10	--	--	--	--	--
16-17	23.90	--	0.00	8.14	0.00	--
17-18	23.00	--	--	7.98	0.00	--
18-19	21.50	--	--	--	--	--
19-20	19.10	--	--	13.40	0.00	--
20-22	22.00	--	--	--	--	--
22-24	17.50	--	0.00	11.08	0.00	--
24-26	21.85	--	--	12.56	0.00	--
26-28	19.10	--	--	12.64	0.00	--
28-30	19.00	--	0.22	--	--	--
30-32	19.60	--	--	17.66	3.92	--
32-34	18.70	--	--	16.64	2.90	--
34-36	17.60	--	--	15.42	1.68	--
36-38	17.80	--	--	22.95	9.21	--
38-40	13.90	--	--	13.48	0.00	--
40-45	15.40	--	--	13.75	0.00	--
45-50	13.05	--	--	12.71	0.00	--
50-55	15.70	--	--	--	--	--
55-60	17.20	--	--	17.18	3.43	--
60-65	15.20	--	--	10.06	0.00	--
65-70	14.30	--	--	14.05	0.31	--
70-75	24.80	--	--	17.12	3.37	--
75-77	52.00	--	--	--	--	--

Table 5-1B38: Summary chemical and radiochemical data for sediment core PBR_27B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	501.00	1.90	9.00	59.98	54.37	--
1-2	569.50	1.19	11.17	69.58	63.97	--
2-3	673.00	0.17	5.17	65.58	59.97	--
3-4	782.00	0.00	9.00	64.54	58.93	--
4-5	764.00	0.00	7.50	69.89	64.28	--
5-6	709.00	--	--	59.83	54.23	--
6-7	665.00	--	7.83	57.19	51.58	--
7-8	668.00	--	--	54.38	48.77	--
8-9	714.00	--	6.83	50.62	45.01	--
9-10	675.00	--	--	52.41	46.81	--
10-11	605.50	--	7.67	48.67	43.07	--
11-12	612.00	--	--	45.51	39.90	--
12-13	680.00	--	5.00	43.21	37.60	--
13-14	688.00	--	--	46.21	40.61	--
14-15	665.00	--	4.67	41.93	36.32	--
15-16	705.50	--	--	44.45	38.84	--
16-17	665.00	--	2.17	46.99	41.39	--
17-18	799.00	--	9.50	50.45	44.84	--
18-19	732.00	--	11.17	44.20	38.59	--
19-20	607.00	--	7.00	35.39	29.78	--
20-22	724.00	--	6.50	28.64	23.04	--
22-24	739.00	--	10.33	24.27	18.66	--
24-26	451.00	--	1.50	21.17	15.56	--
26-28	281.00	--	--	9.50	3.89	--
28-30	363.00	--	2.33	7.22	1.61	--
30-32	304.00	--	--	8.94	3.33	--
32-34	450.00	--	0.00	7.11	1.50	--
34-36	727.00	--	--	8.98	3.37	--
36-38	238.00	--	1.33	6.94	1.33	--
38-40	260.00	--	--	7.78	2.17	--
40-45	10193.00	--	0.83	7.97	2.36	--
45-50	699.20	--	4.50	8.63	3.02	--
50-55	152.00	--	0.00	6.51	0.90	--
55-60	331.00	--	4.17	5.59	0.00	--
60-65	192.00	--	2.67	8.60	2.99	--
65-70	246.00	--	2.00	7.60	2.00	--
70-75	71.00	--	0.00	5.32	0.00	--
75-80	53.30	--	0.00	5.86	0.25	--
80-85	49.10	--	2.67	6.42	0.81	--
85-90	78.00	--	1.17	4.55	0.00	--

Table 5-1B39: Summary chemical and radiochemical data for sediment core PBR_28B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1060.00	--	9.99	--	--	--
1-2	1080.00	--	10.41	72.25	61.55	--
2-3	1014.00	--	13.53	71.50	60.80	--
3-4	912.00	--	12.55	67.80	57.10	--
4-5	994.00	--	14.19	61.31	50.61	--
5-6	1580.00	--	13.77	58.11	47.41	--
6-7	1140.00	--	12.59	50.65	39.95	0.84
7-8	1010.00	--	9.46	47.29	36.59	--
8-9	1200.00	--	9.44	52.72	42.02	--
9-10	1130.00	--	13.36	47.82	37.12	--
10-11	1270.00	--	10.83	51.51	40.81	--
11-12	1245.00	--	10.01	48.43	37.73	--
12-13	1370.00	--	12.57	52.46	41.76	--
13-14	1320.00	--	12.59	35.55	24.85	--
14-15	1860.00	--	13.24	36.52	25.82	--
15-16	2710.00	--	4.96	22.81	12.10	1.12
16-17	1820.00	--	6.09	18.29	7.59	--
17-18	291.00	--	0.90	9.12	0.00	--
18-19	107.00	--	2.27	8.36	0.00	0.06
19-20	242.00	--	0.93	12.81	2.11	--
20-22	113.00	--	0.80	6.48	0.00	0.00
22-24	64.90	--	0.03	7.53	0.00	0.00
24-26	58.50	--	1.43	8.99	0.00	--
26-28	50.40	--	0.10	8.80	0.00	0.00
28-30	48.70	--	1.51	7.27	0.00	0.00
30-32	42.60	--	0.52	8.87	0.00	--
32-34	38.60	--	1.62	5.92	0.00	--
34-36	37.50	--	--	7.49	0.00	--
36-38	36.40	--	1.38	9.13	0.00	--
38-40	35.70	--	1.47	7.30	0.00	--
40-45	33.20	--	3.06	8.10	0.00	--
45-50	24.60	--	0.11	6.97	0.00	--
50-55	18.00	--	0.02	7.97	0.00	--
55-60	19.70	--	0.02	9.21	0.00	--
60-65	19.70	--	0.10	10.57	0.00	--
65-70	21.10	--	1.15	9.01	0.00	--
70-75	16.60	--	--	11.34	0.64	--
75-80	19.50	--	0.32	11.59	0.89	--
80-85	20.70	--	--	9.37	0.00	--
85-90	13.70	--	--	11.14	0.44	--

Table 5-1B40: Summary chemical and radiochemical data for sediment core PBR_29A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	1410.00	--	8.75	65.51	49.55	--
1-2	1185.00	--	7.00	58.85	42.89	--
2-3	1100.00	--	6.51	63.35	47.39	--
3-4	1210.00	--	8.49	67.17	51.21	--
4-5	1020.00	--	7.55	62.12	46.16	--
5-6	1120.00	--	7.99	65.13	49.17	--
6-7	1150.00	--	8.12	59.95	43.99	--
7-8	1270.00	--	9.06	50.39	34.43	--
8-9	1420.00	--	9.23	45.11	29.15	--
9-10	1300.00	--	10.79	46.53	30.57	--
10-11	1750.00	--	12.56	41.12	25.16	--
11-12	1980.00	--	11.07	52.02	36.06	--
12-13	3150.00	--	10.59	58.60	42.64	--
13-14	1800.00	--	9.73	35.20	19.24	--
14-15	1820.00	--	10.69	38.18	22.22	--
15-16	2350.00	--	12.36	36.86	20.90	--
16-17	3390.00	--	13.55	34.64	18.68	--
17-18	3310.00	--	12.75	39.27	23.32	--
18-19	2770.00	--	10.65	33.37	17.42	--
19-20	2760.00	--	4.12	27.82	11.86	--
20-22	2450.00	--	8.94	31.88	15.92	--
22-24	1945.00	--	5.12	27.23	11.27	--
24-26	1410.00	--	0.00	19.44	3.49	--
26-28	972.00	--	2.11	23.84	7.88	--
28-30	530.00	--	1.53	23.37	7.41	--
30-32	460.00	--	0.95	22.26	6.31	--
32-34	531.00	--	0.62	22.62	6.66	--
34-36	321.50	--	2.30	23.50	7.54	--
36-38	427.00	--	1.38	23.81	7.85	--
38-40	357.00	--	0.00	19.61	3.65	--
40-45	596.00	--	0.00	15.42	0.00	--
45-50	239.00	--	0.00	16.62	0.66	--
50-55	207.00	--	0.00	17.49	1.54	--
55-60	163.00	--	0.00	19.02	3.06	--
60-65	57.50	--	0.00	18.59	2.63	--
65-70	91.30	--	0.00	15.84	0.00	--
70-75	31.80	--	0.00	16.11	0.15	--
75-80	49.50	--	0.00	16.10	0.15	--
80-85	32.80	--	0.00	15.31	0.00	--
85-90	73.40	--	0.00	16.46	0.50	--

Table 5-1B41: Summary chemical and radiochemical data for sediment core PBR_30B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	844.00	--	5.88	68.69	55.10	--
1-2	1033.00	--	8.29	70.15	56.55	--
2-3	861.00	--	8.53	65.71	52.11	--
3-4	1030.00	--	8.24	63.61	50.01	--
4-5	1240.00	--	7.29	64.07	50.48	--
5-6	665.00	--	5.61	59.85	46.25	--
6-7	974.00	--	5.48	63.67	50.07	--
7-8	1050.00	--	7.89	64.36	50.76	--
8-9	1100.00	--	9.47	61.51	47.92	--
9-10	981.00	--	6.89	77.17	63.57	--
10-11	1310.00	--	9.32	85.66	72.06	--
11-12	1670.00	--	8.50	63.30	49.70	--
12-13	1330.00	--	7.37	80.45	66.85	--
13-14	1650.00	--	10.15	74.88	61.29	--
14-15	1140.00	--	9.07	80.12	66.52	--
15-16	1200.00	--	11.29	63.83	50.23	--
16-17	1270.00	--	9.55	62.05	48.45	--
17-18	843.00	--	6.03	54.43	40.83	--
18-19	752.00	--	6.43	65.64	52.05	--
19-20	1060.00	--	6.23	53.80	40.20	--
20-22	1180.00	--	10.96	87.78	74.19	--
22-24	671.00	--	10.04	56.31	42.71	--
24-26	439.00	--	3.30	25.37	11.77	--
26-28	134.00	--	0.47	16.73	3.14	--
28-30	65.00	--	0.00	15.66	2.06	--
30-32	22.90	--	0.00	13.98	0.38	--
32-34	19.20	--	0.00	14.37	0.77	--
34-36	21.60	--	0.00	19.84	6.24	--
36-38	26.00	--	0.00	14.74	1.14	--
38-40	24.50	--	0.00	12.67	0.00	--
40-45	21.60	--	0.00	10.39	0.00	--
45-50	17.00	--	0.00	11.41	0.00	--
50-55	14.85	--	0.00	9.39	0.00	--
55-60	12.40	--	0.00	9.38	0.00	--
60-65	13.00	--	0.00	13.28	0.00	--
65-70	15.40	--	0.00	10.21	0.00	--
70-75	14.50	--	0.00	10.53	0.00	--
75-80	17.90	--	0.00	12.29	0.00	--
80-85	15.20	--	0.00	13.84	0.25	--
85-90	17.40	--	0.00	14.66	1.06	--

Table 5-1B42: Summary chemical and radiochemical data for sediment core PBR_31C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	598.00	7.36	4.54	96.85	90.54	--
1-2	622.00	35.95	10.65	96.33	90.02	--
2-3	794.00	14.62	7.84	93.89	87.58	--
3-4	876.00	8.40	11.82	83.98	77.67	--
4-5	781.00	19.46	10.04	81.78	75.47	--
5-6	922.00	--	18.97	81.76	75.46	--
6-7	795.00	--	10.82	74.68	68.37	--
7-8	760.00	--	15.66	64.89	58.59	--
8-9	789.00	--	1.86	75.30	68.99	--
9-10	869.00	--	7.01	79.19	72.88	--
10-11	992.00	--	3.59	75.49	69.18	--
11-12	1060.00	--	8.35	77.70	71.39	--
12-13	925.00	--	12.76	70.27	63.96	--
13-14	964.00	--	12.28	78.75	72.44	--
14-15	971.00	--	12.37	73.80	67.49	--
15-16	937.00	--	7.60	73.64	67.33	--
16-17	981.00	--	--	61.63	55.33	--
17-18	967.00	--	7.10	55.69	49.38	--
18-19	1030.00	--	--	51.47	45.16	--
19-20	1360.00	--	7.90	41.01	34.70	--
20-22	2585.00	--	--	28.65	22.34	--
22-24	3310.00	--	10.41	43.54	37.23	--
24-26	3280.00	--	12.87	33.64	27.33	--
26-28	4240.00	--	22.58	39.98	33.67	--
28-30	3510.00	--	11.56	26.88	20.57	--
30-32	1530.00	--	4.22	15.85	9.55	--
32-34	618.00	--	0.17	11.27	4.96	--
34-36	165.00	--	1.86	9.19	2.88	--
36-38	63.30	--	0.33	5.50	0.00	--
38-40	90.60	--	1.07	6.38	0.07	--
40-45	48.90	--	--	8.53	2.22	--
45-50	59.05	--	0.27	5.17	0.00	--
50-55	46.80	--	--	6.43	0.12	--
55-60	28.50	--	--	4.71	0.00	--
60-65	16.60	--	--	5.62	0.00	--
65-70	21.20	--	0.00	7.04	0.73	--
70-75	14.80	--	--	6.90	0.59	--
75-80	7.48	--	--	4.76	0.00	--
80-85	8.73	--	0.00	6.40	0.09	--
85-90	5.74	--	--	7.77	1.46	--

Table 5-1B43: Summary chemical and radiochemical data for sediment core ES_01B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	679.00	--	8.88	109.07	91.06	--
1-2	745.00	--	7.28	121.98	103.96	--
2-3	698.00	--	8.37	123.14	105.12	--
3-4	739.00	--	6.40	124.13	106.12	--
4-5	786.00	--	8.70	100.97	82.96	--
5-6	721.00	--	9.89	115.73	97.72	--
6-7	759.00	--	9.00	91.70	73.68	--
7-8	811.00	--	8.62	95.16	77.14	--
8-9	841.00	--	8.90	76.12	58.11	--
9-10	883.00	--	7.55	92.71	74.69	--
10-11	928.00	--	11.09	88.00	69.99	--
11-12	945.00	--	10.36	84.87	66.86	--
12-13	973.00	--	10.28	88.24	70.23	--
13-14	1220.00	--	9.90	71.14	53.12	--
14-15	685.00	--	10.32	74.73	56.71	--
15-16	1490.00	--	10.63	61.61	43.60	--
16-17	1400.00	--	11.84	61.22	43.20	--
17-18	1690.00	--	12.16	62.21	44.20	--
18-19	1830.00	--	13.00	57.60	39.59	--
19-20	2080.00	--	13.32	53.53	35.52	--
20-22	1295.00	--	5.84	45.01	27.00	--
22-24	889.00	--	4.40	36.16	18.14	--
24-26	517.00	--	1.87	30.61	12.59	--
26-28	346.00	--	1.71	26.97	8.95	--
28-30	181.00	--	0.93	25.74	7.72	--
30-32	88.60	--	0.00	18.36	0.34	--
32-34	86.70	--	0.64	21.51	3.49	--
34-36	74.90	--	0.00	19.83	1.82	--
36-38	54.80	--	0.00	19.39	1.38	--
38-40	60.70	--	0.00	18.42	0.40	--
40-45	49.20	--	0.00	19.60	1.58	--
45-50	33.20	--	0.00	20.92	2.91	--
50-55	78.70	--	0.00	17.20	0.00	--
55-60	37.40	--	0.00	19.95	1.93	--
60-65	48.90	--	0.00	21.44	3.43	--
65-70	24.00	--	0.00	19.58	1.57	--
70-75	31.80	--	0.00	17.25	0.00	--
75-80	23.90	--	0.00	14.77	0.00	--
80-85	20.80	--	0.00	20.50	2.49	--
85-90	16.20	--	0.00	18.77	0.75	--

Table 5-1B44: Summary chemical and radiochemical data for sediment core ES_02C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	772.00	--	16.67	100.11	1527.99	1.26
1-2	761.00	--	11.83	113.01	1743.00	--
2-3	834.00	--	12.33	103.43	1583.42	1.24
3-4	859.00	--	4.17	110.68	1704.16	0.97
4-5	892.00	--	5.33	102.00	1559.58	--
5-6	1160.00	--	4.67	87.79	1322.76	--
6-7	993.00	--	--	85.81	1289.69	--
7-8	1040.00	--	14.33	86.80	1306.17	0.62
8-9	1100.00	--	--	85.89	1291.03	--
9-10	1180.00	--	9.50	77.14	1145.22	1.69
10-11	1190.00	--	--	76.59	1135.97	--
11-12	2090.00	--	11.50	70.03	1026.66	--
12-13	1700.00	--	--	71.00	1042.80	--
13-14	1470.00	--	10.67	64.27	930.78	1.64
14-15	1500.00	--	--	60.02	859.93	--
15-16	1600.00	--	10.50	58.95	842.05	--
16-17	1420.00	--	--	51.85	723.73	1.27
17-18	1640.00	--	11.00	53.74	755.14	--
18-19	1710.00	--	--	56.16	795.53	1.29
19-20	1710.00	--	8.17	49.40	682.87	--
20-22	1270.00	--	13.50	54.84	773.61	1.45
22-24	1705.00	--	7.67	50.22	696.51	--
24-26	1900.00	--	7.83	47.81	656.33	2.11
26-28	2140.00	--	10.67	39.92	524.80	1.98
28-30	2020.00	--	7.33	33.07	410.72	1.20
30-32	1990.00	--	7.83	32.59	402.74	--
32-34	1740.00	--	5.33	21.18	212.50	--
34-36	1640.00	--	4.67	31.38	382.57	1.42
36-38	1430.00	--	3.17	22.64	236.94	--
38-40	520.00	--	5.00	31.01	376.39	0.75
40-45	355.00	--	0.33	15.50	117.86	--
45-50	151.00	--	1.83	15.13	111.75	--
50-55	79.65	--	--	9.73	21.65	--
55-60	57.80	--	0.67	5.55	0.00	--
60-65	30.60	--	--	9.19	12.78	--
65-70	33.60	--	0.00	9.04	10.21	--
70-75	18.80	--	--	10.88	40.94	--
75-80	246.00	--	2.50	9.16	12.25	--
80-85	107.00	--	--	7.87	0.00	--
85-90	26.70	--	1.33	8.25	0.00	--

Table 5-1B45: Summary chemical and radiochemical data for sediment core ES_03C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	239.00	--	9.67	42.83	624.07	--
1-2	471.50	--	11.17	67.00	1026.85	--
2-3	434.00	--	4.50	65.50	1001.85	--
3-4	585.00	--	6.33	62.50	951.85	--
4-5	611.00	--	2.83	56.67	854.63	--
5-6	803.00	--	8.50	55.17	829.63	--
6-7	589.00	--	8.33	48.50	718.52	--
7-8	612.00	--	5.83	47.50	701.85	--
8-9	578.00	--	5.83	45.67	671.30	--
9-10	574.00	--	2.83	43.00	626.85	--
10-11	605.00	--	6.00	29.00	393.52	--
11-12	438.00	--	4.17	35.83	507.41	--
12-13	556.50	--	7.33	32.00	443.52	--
13-14	600.00	--	5.83	32.67	454.63	--
14-15	673.00	--	6.50	31.00	426.85	--
15-16	482.00	--	4.17	23.83	307.41	--
16-17	464.00	--	6.50	18.17	212.96	--
17-18	410.00	--	3.67	11.17	96.30	--
18-19	327.00	--	1.50	11.00	93.52	--
19-20	292.00	--	0.00	9.83	74.07	--
20-22	231.00	--	0.00	6.83	24.07	--
22-24	28.20	--	2.00	8.67	54.63	--
24-26	22.10	--	0.17	5.17	0.00	--
26-28	76.50	--	1.83	5.83	7.41	--
28-30	37.70	--	0.00	7.67	37.96	--
30-32	9.01	--	0.00	5.67	4.63	--
32-34	13.20	--	4.00	5.50	1.85	--
34-36	10.80	--	0.67	9.00	60.19	--
36-38	11.10	--	0.33	8.67	54.63	--
38-40	5.87	--	0.00	7.17	29.63	--
40-45	9.79	--	--	7.00	26.85	--
45-50	11.20	--	--	5.33	0.00	--
50-55	6.00	--	--	7.50	35.19	--
55-60	5.27	--	0.00	9.50	68.52	--
60-65	5.47	--	--	7.83	40.74	--
65-70	5.80	--	--	6.33	15.74	--
70-75	3.77	--	--	7.33	32.41	--
75-80	5.02	--	--	5.17	0.00	--
80-85	5.11	--	--	4.00	0.00	--
85-90	4.20	--	--	7.00	26.85	--

Table 5-1B46: Summary chemical and radiochemical data for sediment core ES_04C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	585.00	--	7.83	74.50	1021.30	--
1-2	696.00	--	5.83	66.67	890.74	--
2-3	719.00	--	12.00	71.33	968.52	--
3-4	716.00	--	11.00	62.00	812.96	--
4-5	708.00	--	11.00	60.33	785.19	0.99
5-6	761.00	--	9.67	57.00	729.63	--
6-7	688.00	--	11.50	46.17	549.07	1.52
7-8	822.00	--	10.00	54.83	693.52	--
8-9	835.00	--	5.50	59.33	768.52	3.10
9-10	755.00	--	6.33	49.67	607.41	--
10-11	754.00	--	2.50	45.67	540.74	1.53
11-12	905.00	--	6.67	42.00	479.63	--
12-13	538.00	--	7.33	29.17	265.74	0.45
13-14	487.00	--	5.67	28.00	246.30	--
14-15	352.00	--	6.50	21.67	140.74	1.20
15-16	170.00	--	0.50	17.17	65.74	--
16-17	115.00	--	1.33	14.50	21.30	0.68
17-18	131.00	--	--	11.00	0.00	--
18-19	75.50	--	0.00	11.67	0.00	--
19-20	47.60	--	--	11.00	0.00	--
20-22	51.60	--	0.00	10.67	0.00	--
22-24	39.80	--	--	10.67	0.00	--
24-26	52.50	--	--	7.17	0.00	--
26-28	51.80	--	--	7.67	0.00	--
28-30	37.60	--	0.00	8.33	0.00	--
30-32	35.40	--	--	8.00	0.00	--
32-34	33.70	--	--	7.67	0.00	1.21
34-36	34.70	--	--	9.00	0.00	--
36-38	46.00	--	--	7.83	0.00	--
38-40	39.50	--	0.00	8.33	0.00	--
40-45	25.90	--	--	7.17	0.00	--
45-50	24.50	--	2.00	11.67	0.00	0.04
50-55	10.90	--	--	8.67	0.00	0.23
55-60	19.20	--	--	10.33	0.00	--
60-65	24.30	--	2.67	14.83	26.85	0.00
65-70	23.50	--	--	15.50	37.96	--
70-75	18.60	--	--	12.50	0.00	--
75-80	13.30	--	--	13.17	0.00	--
80-85	15.50	--	--	11.17	0.00	--
85-90	18.10	--	--	15.33	35.19	--

Table 5-1B47: Summary chemical and radiochemical data for sediment core ES_06A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	678.00	--	9.09	68.76	847.13	2.50
1-2	681.00	--	9.21	68.49	842.63	--
2-3	720.50	--	7.61	63.66	762.13	--
3-4	758.00	--	9.13	56.45	641.85	--
4-5	734.00	--	6.79	54.00	600.98	--
5-6	820.00	--	5.09	48.36	507.12	--
6-7	892.00	--	8.39	51.28	555.75	--
7-8	866.00	--	8.23	54.91	616.16	--
8-9	939.00	--	6.88	48.69	512.53	--
9-10	893.00	--	6.12	40.97	383.85	--
10-11	828.00	--	5.62	42.94	416.64	--
11-12	811.00	--	7.47	47.29	489.18	--
12-13	772.00	--	4.65	39.50	359.33	--
13-14	760.00	--	5.27	40.47	375.48	--
14-15	584.00	--	2.51	34.74	280.02	1.77
15-16	448.00	--	0.07	34.10	269.44	--
16-17	419.00	--	5.14	31.17	220.61	--
17-18	355.00	--	2.25	26.84	148.31	--
18-19	331.00	--	4.75	27.81	164.50	--
19-20	387.00	--	3.09	25.58	127.45	--
20-22	396.00	--	1.33	22.98	84.13	0.51
22-24	337.00	--	1.15	25.29	122.53	--
24-26	88.40	--	0.13	22.40	74.41	--
26-28	60.00	--	1.78	17.03	0.00	--
28-30	84.50	--	0.05	17.97	0.58	--
30-32	129.00	--	3.17	17.74	0.00	--
32-34	48.80	--	0.05	14.63	0.00	--
34-36	31.60	--	0.52	15.07	0.00	--
36-38	33.00	--	0.03	18.17	3.89	--
38-40	26.60	--	0.11	18.02	1.35	--
40-45	33.80	--	0.05	16.45	0.00	--
45-50	34.40	--	0.33	21.23	54.91	--
50-55	33.30	--	0.11	19.75	30.22	0.05
55-60	21.00	--	2.89	23.98	100.69	0.08
60-65	18.90	--	0.84	14.52	0.00	0.00
65-70	24.10	--	0.33	13.58	0.00	--
70-75	22.70	--	0.26	17.28	0.00	0.05
75-80	20.40	--	0.00	13.76	0.00	--
80-85	17.40	--	1.10	20.01	34.51	0.05
85-90	17.80	--	0.00	20.04	35.11	--

Table 5-1B48: Summary chemical and radiochemical data for sediment core ES_07A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	331.00	--	4.23	64.10	51.782	--
1-2	277.00	--	--	68.76	56.442	--
2-3	304.00	--	4.22	67.42	55.096	--
3-4	277.50	--	--	72.86	60.541	--
4-5	294.00	--	3.04	68.77	56.452	--
5-6	288.00	--	--	70.30	57.975	--
6-7	346.00	--	6.23	59.69	47.364	--
7-8	329.00	--	9.46	68.87	56.551	--
8-9	321.00	--	8.58	59.91	47.591	--
9-10	323.00	--	7.66	55.18	42.854	--
10-11	312.00	--	1.55	61.11	48.789	--
11-12	298.00	--	--	51.13	38.803	--
12-13	306.00	--	3.91	45.13	32.811	--
13-14	307.00	--	--	35.95	23.631	--
14-15	270.00	--	5.44	35.63	23.303	--
15-16	215.00	--	--	33.44	21.116	--
16-17	156.00	--	4.04	26.44	14.121	--
17-18	145.00	--	--	25.28	12.962	--
18-19	179.00	--	2.74	24.24	11.920	--
19-20	180.00	--	--	21.08	8.756	--
20-22	209.00	--	0.00	20.14	7.815	--
22-24	173.00	--	--	16.11	3.786	--
24-26	123.00	--	0.00	16.27	3.947	--
26-28	99.60	--	3.81	14.10	1.773	--
28-30	88.00	--	5.21	24.16	11.839	--
30-32	68.70	--	0.00	18.62	6.302	--
32-34	113.00	--	1.03	16.85	4.529	--
34-36	85.90	--	0.00	13.49	1.170	--
36-38	76.30	--	--	13.62	1.297	--
38-40	55.20	--	--	14.46	2.133	--
40-45	73.20	--	0.75	12.33	0.009	--
45-50	54.20	--	--	10.62	0.00	--
50-55	58.50	--	0.00	13.37	1.044	--
55-60	54.60	--	--	12.22	0.00	--
60-65	38.80	--	0.00	12.28	0.00	--
65-70	41.50	--	--	13.67	1.350	--
70-75	45.50	--	1.15	10.91	0.00	--
75-80	38.80	--	--	13.03	0.710	--
80-85	33.20	--	0.00	11.07	0.00	--
85-90	35.90	--	--	12.87	0.544	--

Table 5-1B49: Summary chemical and radiochemical data for sediment core ES_08A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	383.00	--	--	78.21	65.460	--
1-2	326.00	--	1.03	70.06	57.307	--
2-3	331.00	--	4.84	75.61	62.863	--
3-4	361.00	--	3.25	66.08	53.324	--
4-5	348.00	--	3.22	67.45	54.699	--
5-6	346.00	--	6.26	72.00	59.250	--
6-7	337.00	--	3.58	68.52	55.766	--
7-8	349.00	--	2.71	--	--	--
8-9	343.00	--	3.84	--	--	--
9-10	378.00	--	4.07	65.04	52.287	--
10-11	374.00	--	3.19	59.56	46.807	--
11-12	410.00	--	3.34	64.13	51.374	--
12-13	417.00	--	4.36	59.38	46.629	--
13-14	436.00	--	3.57	55.89	43.137	--
14-15	485.00	--	3.27	47.45	34.696	--
15-16	495.00	--	2.21	53.20	40.448	--
16-17	424.00	--	3.34	49.10	36.349	--
17-18	338.00	--	2.49	48.12	35.370	--
18-19	322.00	--	2.88	29.87	17.120	--
19-20	256.00	--	3.36	39.06	26.312	--
20-22	228.00	--	1.91	44.98	32.225	--
22-24	310.00	--	0.90	32.28	19.533	--
24-26	165.00	--	1.28	23.83	11.078	--
26-28	150.00	--	0.00	22.07	9.321	--
28-30	130.00	--	0.00	19.89	7.138	--
30-32	126.00	--	0.00	16.87	4.121	--
32-34	87.20	--	0.00	18.77	6.018	--
34-36	48.60	--	0.00	17.04	4.285	--
36-38	34.70	--	0.00	16.65	3.894	--
38-40	32.70	--	0.00	18.61	5.863	--
40-45	59.10	--	0.00	16.62	3.870	--
45-50	98.90	--	0.00	--	--	--
50-55	87.30	--	0.00	14.31	1.557	--
55-60	54.25	--	0.00	16.59	3.840	--
60-65	84.00	--	0.00	14.97	2.214	--
65-70	46.70	--	0.00	15.11	2.361	--
70-75	48.10	--	0.00	13.74	0.990	--
75-80	31.80	--	0.00	14.71	1.964	--
80-85	40.50	--	0.00	10.06	0.00	--
85-90	36.10	--	0.00	13.47	0.723	--

Table 5-1B50: Summary chemical and radiochemical data for sediment core ES_08C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	290.00	--	2.76	79.89	65.690	--
1-2	279.00	--	4.60	69.30	55.098	--
2-3	329.00	--	3.20	69.80	55.597	--
3-4	306.50	--	3.88	69.69	55.493	--
4-5	304.00	--	3.42	65.81	51.613	--
5-6	301.00	--	2.86	48.50	34.294	--
6-7	305.00	--	3.27	31.36	17.155	--
7-8	302.00	--	4.73	57.64	43.437	--
8-9	326.00	--	2.84	48.57	34.369	--
9-10	345.00	--	4.01	34.64	20.438	--
10-11	336.00	--	3.05	46.85	32.651	--
11-12	296.00	--	2.71	43.64	29.437	--
12-13	315.00	--	4.57	32.59	18.384	--
13-14	323.00	--	3.93	33.58	19.381	--
14-15	315.00	--	4.01	38.55	24.350	--
15-16	303.00	--	2.59	--	--	--
16-17	370.00	--	3.80	--	--	--
17-18	329.00	--	3.65	39.04	24.837	--
18-19	313.00	--	4.71	--	--	--
19-20	355.00	--	3.35	36.53	22.327	--
20-22	331.00	--	3.79	44.70	30.496	--
22-24	206.00	--	3.91	30.39	16.192	--
24-26	170.00	--	0.00	24.95	10.746	--
26-28	191.00	--	1.25	19.48	5.278	--
28-30	187.00	--	0.00	24.29	10.087	--
30-32	190.00	--	0.00	25.31	11.104	--
32-34	95.90	--	1.36	18.50	4.296	--
34-36	220.00	--	1.67	--	--	--
36-38	300.00	--	0.00	21.71	7.505	--
38-40	48.10	--	0.00	--	--	--
40-45	46.20	--	0.00	11.63	0.00	--
45-50	37.10	--	0.00	11.63	0.00	--
50-55	32.90	--	0.00	12.05	0.00	--
55-60	53.30	--	0.00	13.52	0.00	--
60-65	42.50	--	0.00	14.60	0.395	--
65-70	40.30	--	0.00	--	--	--
70-75	62.30	--	0.00	12.62	0.00	--
75-80	34.20	--	0.00	15.05	0.844	--
80-85	45.00	--	0.00	12.70	0.00	--
85-90	32.60	--	0.00	14.86	0.662	--

Table 5-1B51: Summary chemical and radiochemical data for sediment core ES_09C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	236.00	--	0.00	56.11	46.22	--
1-2	213.00	--	3.88	81.38	71.49	--
2-3	235.00	--	0.00	48.19	38.30	--
3-4	222.00	--	0.00	39.95	30.06	--
4-5	217.00	--	0.00	48.63	38.74	--
5-6	209.00	--	0.00	49.67	39.78	--
6-7	213.00	--	0.00	57.24	47.35	--
7-8	221.00	--	0.00	51.26	41.37	--
8-9	216.00	--	0.00	56.19	46.30	--
9-10	233.00	--	5.11	69.19	59.30	--
10-11	279.00	--	3.60	46.05	36.16	--
11-12	275.00	--	3.27	31.61	21.72	--
12-13	302.00	--	3.22	31.69	21.80	--
13-14	326.00	--	3.54	26.32	16.43	--
14-15	365.00	--	3.50	24.37	14.48	--
15-16	338.00	--	3.91	20.94	11.05	--
16-17	342.00	--	3.28	20.26	10.37	--
17-18	323.00	--	2.49	21.49	11.60	--
18-19	297.00	--	2.66	20.15	10.26	--
19-20	300.00	--	2.34	19.68	9.79	--
20-22	218.00	--	1.92	23.22	13.33	--
22-24	116.00	--	1.52	27.84	17.95	--
24-26	118.00	--	1.17	23.64	13.75	--
26-28	220.00	--	0.00	19.34	9.45	--
28-30	223.00	--	0.00	17.69	7.80	--
30-32	212.00	--	0.00	19.87	9.98	--
32-34	152.00	--	0.00	14.90	5.01	--
34-36	101.00	--	0.00	17.21	7.32	--
36-38	83.50	--	0.00	15.39	5.50	--
38-40	85.20	--	0.00	23.84	13.95	--
40-45	46.60	--	0.00	13.70	3.81	--
45-50	32.40	--	0.00	22.84	12.95	--
50-55	33.50	--	0.00	12.75	2.86	--
55-60	39.55	--	0.00	24.70	14.81	--
60-65	37.10	--	0.00	10.87	0.98	--
65-70	39.50	--	0.00	9.92	0.03	--
70-75	18.10	--	0.00	9.78	0.00	--
75-80	26.80	--	0.00	10.11	0.22	--
80-85	20.00	--	0.00	10.44	0.55	--
85-90	23.70	--	0.00	9.13	0.00	--

Table 5-1B52: Summary chemical and radiochemical data for sediment core ES_12C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	332.00	--	1.91	--	--	--
1-2	282.00	--	1.47	64.26	46.16	--
2-3	305.00	--	3.01	71.17	53.07	--
3-4	327.00	--	4.05	59.81	41.72	--
4-5	294.00	--	3.86	52.86	34.76	--
5-6	298.00	--	5.54	48.90	30.80	--
6-7	266.00	--	4.21	52.83	34.73	--
7-8	273.00	--	3.82	54.25	36.15	--
8-9	285.00	--	3.04	54.40	36.30	--
9-10	266.00	--	4.16	53.34	35.24	--
10-11	276.00	--	3.98	61.73	43.63	--
11-12	279.00	--	4.05	70.15	52.05	--
12-13	276.00	--	4.70	70.39	52.29	--
13-14	279.00	--	3.06	66.84	48.74	--
14-15	290.00	--	3.82	61.24	43.14	--
15-16	295.00	--	3.93	69.18	51.08	--
16-17	295.00	--	4.48	66.97	48.87	--
17-18	350.00	--	3.82	48.12	30.02	--
18-19	332.00	--	1.58	49.37	31.27	--
19-20	318.00	--	3.22	39.30	21.20	--
20-22	406.00	--	2.91	42.11	24.01	--
22-24	352.50	--	3.02	39.26	21.16	--
24-26	96.80	--	0.00	24.08	5.98	--
26-28	69.80	--	1.17	21.89	3.79	--
28-30	46.60	--	0.91	23.35	5.25	--
30-32	85.20	--	0.00	21.85	3.75	--
32-34	85.60	--	0.00	17.20	0.00	--
34-36	69.90	--	0.00	17.38	0.00	--
36-38	69.50	--	0.00	18.93	0.83	--
38-40	73.30	--	0.00	16.21	0.00	--
40-45	57.50	--	0.00	11.04	0.00	--
45-50	26.60	--	0.00	17.21	0.00	--
50-55	44.00	--	0.00	15.98	0.00	--
55-60	28.30	--	0.00	13.86	0.00	--
60-65	22.30	--	0.00	15.69	0.00	--
65-70	26.80	--	0.00	16.81	0.00	--
70-75	24.60	--	0.00	15.99	0.00	--
75-80	30.80	--	0.00	16.46	0.00	--
80-85	30.00	--	0.00	19.12	1.03	--
85-90	40.10	--	0.00	18.71	0.61	--

Table 5-1B53: Summary chemical and radiochemical data for sediment core ES_13C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	420.00	--	5.64	53.97	649.98	--
1-2	395.00	--	7.24	51.83	614.32	--
2-3	438.50	--	5.77	55.93	682.74	--
3-4	445.00	--	6.61	47.88	548.58	0.44
4-5	454.00	--	7.55	48.54	559.50	--
5-6	443.00	--	6.43	55.78	680.18	3.30
6-7	524.00	--	3.29	48.94	566.09	--
7-8	570.00	--	8.17	47.69	545.27	1.34
8-9	565.00	--	5.16	35.70	345.56	--
9-10	589.00	--	3.98	32.91	299.04	0.80
10-11	458.00	--	--	27.99	217.06	--
11-12	311.00	--	2.16	25.51	175.73	--
12-13	142.00	--	1.49	24.60	160.52	1.32
13-14	95.50	--	0.90	23.57	143.25	--
14-15	110.00	--	0.32	22.44	124.56	--
15-16	126.00	--	1.05	32.79	297.02	0.87
16-17	188.00	--	1.09	21.76	113.22	--
17-18	162.00	--	0.04	16.93	32.69	0.09
18-19	136.00	--	1.08	16.89	31.95	--
19-20	79.40	--	1.55	17.19	37.00	0.00
20-22	169.00	--	0.80	16.50	25.42	--
22-24	32.85	--	0.16	15.11	2.31	--
24-26	40.90	--	0.49	13.88	0.00	--
26-28	41.60	--	0.70	17.32	39.12	--
28-30	24.80	--	0.94	15.97	16.62	0.33
30-32	18.60	--	0.93	15.53	9.31	--
32-34	15.90	--	0.01	14.06	0.00	--
34-36	24.60	--	0.03	14.96	0.00	--
36-38	26.80	--	--	16.61	27.30	0.22
38-40	24.20	--	0.01	12.15	0.00	--
40-45	52.80	--	--	14.48	0.00	0.00
45-50	29.70	--	0.81	17.00	33.90	--
50-55	34.60	--	1.49	16.81	30.63	--
55-60	47.10	--	1.41	15.60	10.44	--
60-65	34.70	--	2.07	16.95	33.06	--
65-70	37.20	--	0.85	19.58	76.84	0.06
70-75	34.10	--	2.90	15.20	3.76	0.07
75-80	29.90	--	0.02	13.90	0.00	0.00
80-85	34.30	--	1.05	--	--	--
85-90	31.60	--	0.03	15.82	14.09	--

Table 5-1B54: Summary chemical and radiochemical data for sediment core ES_14C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	645.00	--	7.00	69.82	62.271	--
1-2	621.00	--	--	66.98	59.424	--
2-3	666.00	--	6.83	72.57	65.013	--
3-4	723.00	--	--	69.92	62.367	--
4-5	703.00	--	5.00	74.53	66.979	--
5-6	685.00	--	--	78.47	70.919	--
6-7	688.00	--	8.00	74.96	67.408	--
7-8	729.00	--	--	76.37	68.814	--
8-9	804.00	--	10.17	75.45	67.895	--
9-10	734.00	--	--	71.39	63.842	--
10-11	746.00	--	8.00	64.35	56.799	--
11-12	793.00	--	--	59.92	52.369	--
12-13	719.00	--	5.67	66.51	58.954	--
13-14	709.00	--	--	56.42	48.866	--
14-15	668.00	--	8.00	52.87	45.314	--
15-16	763.00	--	--	58.23	50.682	--
16-17	788.00	--	4.17	49.76	42.204	--
17-18	751.00	--	--	52.91	45.353	--
18-19	752.00	--	6.00	61.02	53.465	--
19-20	704.00	--	--	80.73	73.176	--
20-22	774.00	--	5.83	68.16	60.603	--
22-24	703.00	--	7.83	57.71	50.160	--
24-26	714.00	--	3.50	54.94	47.385	--
26-28	825.25	--	2.50	53.36	45.804	--
28-30	746.00	--	3.33	43.58	36.032	--
30-32	740.00	--	8.83	42.02	34.472	--
32-34	788.00	--	7.00	41.70	34.149	--
34-36	791.00	--	8.67	41.69	34.141	--
36-38	879.00	--	5.67	35.42	27.868	--
38-40	934.00	--	9.00	35.73	28.175	--
40-45	697.00	--	4.17	29.04	21.488	--
45-50	382.00	--	4.50	51.06	43.505	--
50-55	491.00	--	5.17	51.87	44.322	--
55-60	549.00	--	4.00	33.49	25.940	--
60-65	298.00	--	2.00	11.97	4.419	--
65-70	47.40	--	--	5.99	0.00	--
70-75	48.40	--	1.83	8.61	1.060	--
75-80	29.20	--	--	7.10	0.00	--
80-85	33.50	--	1.67	7.59	0.041	--
85-90	25.60	--	--	7.97	0.414	--

Table 5-1B55: Summary chemical and radiochemical data for sediment core ES_15A_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	310.00	--	5.66	80.51	1039.99	--
1-2	330.00	--	4.54	80.38	1037.72	--
2-3	325.50	--	5.02	96.34	1303.76	--
3-4	358.00	--	7.39	82.36	1070.73	--
4-5	332.00	--	0.45	71.02	881.81	--
5-6	361.00	--	--	89.47	1189.19	--
6-7	358.00	--	4.69	74.54	940.39	--
7-8	380.00	--	0.89	68.33	836.95	0.28
8-9	372.00	--	--	58.25	668.84	--
9-10	368.00	--	5.02	57.64	658.75	0.67
10-11	385.00	--	3.37	64.48	772.80	--
11-12	366.50	--	2.76	59.26	685.82	--
12-13	358.00	--	3.56	48.42	505.01	--
13-14	393.00	--	3.30	65.44	788.75	1.34
14-15	405.00	--	4.85	51.10	549.79	0.77
15-16	377.00	--	6.19	47.69	492.90	1.04
16-17	392.00	--	5.73	44.96	447.43	0.59
17-18	395.00	--	3.52	38.93	346.88	--
18-19	408.00	--	3.56	39.61	358.20	--
19-20	583.00	--	4.78	36.89	312.93	--
20-22	384.00	--	3.20	31.96	230.80	--
22-24	369.00	--	3.18	30.76	210.72	--
24-26	274.00	--	0.46	20.52	40.11	--
26-28	146.50	--	1.61	18.38	4.48	--
28-30	86.40	--	0.89	20.24	35.42	--
30-32	65.70	--	0.14	17.93	0.00	--
32-34	78.30	--	1.25	19.39	21.21	--
34-36	136.00	--	0.16	19.76	27.34	--
36-38	188.00	--	1.94	22.51	73.30	0.36
38-40	64.60	--	0.05	15.30	0.00	--
40-45	50.60	--	0.47	16.99	0.00	--
45-50	51.90	--	2.39	21.07	49.32	0.03
50-55	38.70	--	0.02	21.66	59.08	--
55-60	33.50	--	0.04	15.97	0.00	--
60-65	32.75	--	0.03	18.00	0.00	--
65-70	34.30	--	0.04	17.83	0.00	--
70-75	34.40	--	2.03	20.72	43.50	--
75-80	33.90	--	0.15	16.56	0.00	--
80-85	31.40	--	5.27	18.74	10.44	--
85-90	27.20	--	0.01	19.04	15.41	--

Table 5-1B56: Summary chemical and radiochemical data for sediment core ES_16C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	599.00	--	6.79	70.24	56.02	0.84
1-2	518.00	--	7.39	71.72	57.49	--
2-3	504.00	--	8.44	63.46	49.23	1.35
3-4	586.00	--	6.18	57.75	43.52	--
4-5	598.00	--	7.47	57.87	43.65	--
5-6	674.00	--	6.20	60.61	46.39	--
6-7	723.00	--	5.66	51.39	37.17	--
7-8	832.00	--	6.44	49.31	35.09	1.94
8-9	771.00	--	7.38	47.02	32.80	--
9-10	726.00	--	6.48	44.88	30.66	--
10-11	726.00	--	7.57	42.97	28.75	--
11-12	717.00	--	6.41	40.39	26.16	--
12-13	633.00	--	7.75	37.36	23.14	1.87
13-14	790.00	--	--	40.83	26.61	--
14-15	934.00	--	6.58	36.59	22.37	--
15-16	959.00	--	4.11	31.01	16.79	--
16-17	604.00	--	2.18	27.35	13.12	--
17-18	307.00	--	5.64	29.02	14.80	0.28
18-19	245.00	--	--	--	--	--
19-20	193.50	--	3.51	24.16	9.94	--
20-22	181.00	--	1.14	18.62	4.39	0.00
22-24	155.00	--	2.23	19.21	4.98	
24-26	114.00	--	0.38	19.91	5.69	
26-28	61.75	--	1.06	22.05	7.83	0.34
28-30	219.00	--	2.08	17.04	2.81	--
30-32	128.00	--	3.18	12.66	0.00	0.00
32-34	43.90	--	1.78	14.53	0.31	--
34-36	31.70	--	0.43	16.47	2.25	--
36-38	28.40	--	0.56	18.01	3.79	--
38-40	26.70	--	0.14	17.86	3.63	0.02
40-45	81.50	--	1.09	23.65	9.42	--
45-50	47.75	--	0.04	12.68	0.00	0.02
50-55	28.00	--	0.35	9.65	0.00	--
55-60	25.10	--	0.04	13.79	0.00	--
60-65	22.10	--	0.13	8.71	0.00	--
65-70	22.40	--	5.59	22.46	8.24	--
70-75	44.80	--	2.37	15.83	1.60	--
75-80	21.60	--	0.02	17.83	3.61	0.06
80-85	25.10	--	0.02	10.42	0.00	--
85-90	22.10	--	0.71	14.42	0.20	0.07

Table 5-1B57: Summary chemical and radiochemical data for sediment core ES_17C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	873.00	--	--	--	--	--
1-2	835.00	0.56	9.27	115.88	100.963	--
2-3	871.00	0.00	--	--	--	--
3-4	966.00	0.58	9.63	120.68	105.764	--
4-5	768.00	0.00	--	--	--	--
5-6	796.00	0.45	7.44	114.65	99.734	--
6-7	844.00	0.00	--	--	--	--
7-8	928.00	0.38	6.26	96.10	81.186	--
8-9	849.00	0.00	--	--	--	--
9-10	863.00	0.56	9.30	106.32	91.406	--
10-11	880.00	0.00	--	--	--	--
11-12	883.00	0.65	10.85	88.67	73.753	--
12-13	924.00	0.00	--	--	--	--
13-14	1160.00	0.53	8.80	83.18	68.267	--
14-15	1150.00	0.00	--	--	--	--
15-16	971.00	0.57	9.43	94.16	79.243	--
16-17	1000.00	0.00	--	--	--	--
17-18	1030.00	0.62	10.37	79.72	64.809	--
18-19	1280.00	0.00	--	--	--	--
19-20	1370.00	0.68	11.38	82.97	68.057	--
20-22	1340.00	0.69	11.43	61.11	46.198	--
22-24	1570.00	0.66	11.05	62.12	47.199	--
24-26	1790.00	0.74	12.31	48.90	33.985	--
26-28	2010.00	0.80	13.31	47.37	32.453	--
28-30	2290.00	0.59	9.78	55.35	40.430	--
30-32	2510.00	0.79	13.15	51.87	36.956	--
32-34	2710.00	1.04	17.39	41.89	26.973	--
34-36	2580.00	0.75	12.42	40.87	25.954	--
36-38	2090.00	0.14	2.41	25.94	11.024	--
38-40	1690.00	0.29	4.82	27.83	12.914	--
40-45	902.00	0.43	7.19	25.52	10.604	--
45-50	207.00	0.00	0.00	15.49	0.571	--
50-55	121.00	0.00	0.00	14.21	0.00	--
55-60	109.50	0.00	0.00	15.34	0.428	--
60-65	110.00	0.00	0.00	13.79	0.00	--
65-70	125.00	0.00	0.00	11.54	0.00	--
70-75	105.00	0.00	0.00	14.58	0.00	--
75-80	47.80	0.00	0.00	--	--	--
80-85	62.60	0.00	0.00	15.65	0.729	--
85-90	60.30	0.00	0.00	14.52	0.00	--

Table 5-1B58: Summary chemical and radiochemical data for sediment core ES_18B_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	872.00	--	8.21	31.65	22.02	--
1-2	785.00	--	12.44	26.74	17.11	--
2-3	1090.00	--	8.94	25.72	16.09	--
3-4	1200.00	--	7.13	34.85	25.22	--
4-5	1120.00	--	2.10	23.40	13.77	--
5-6	955.00	--	0.53	26.19	16.56	--
6-7	739.00	--	3.26	29.24	19.61	--
7-8	770.00	--	1.67	24.15	14.52	--
8-9	512.00	--	4.03	18.36	8.73	--
9-10	276.00	--	5.71	13.25	3.62	--
10-11	163.00	--	1.19	17.50	7.87	--
11-12	138.00	--	0.00	17.24	7.61	--
12-13	206.00	--	0.00	11.83	2.20	--
13-14	144.00	--	0.00	13.51	3.88	--
14-15	115.70	--	1.09	13.98	4.35	--
15-16	96.40	--	1.60	11.07	1.44	--
16-17	77.60	--	0.00	9.85	0.22	--
17-18	86.10	--	0.00	7.36	0.00	--
18-19	55.70	--	1.77	8.60	0.00	--
19-20	41.60	--	2.44	11.02	1.39	--
20-22	91.30	--	0.00	11.00	1.37	--
22-24	60.25	--	1.57	9.58	0.00	--
24-26	52.00	--	0.00	9.68	0.05	--
26-28	41.60	--	1.33	9.17	0.00	--
28-30	45.90	--	1.38	10.05	0.42	--
30-32	38.90	--	--	--	--	--
32-34	20.90	--	--	--	--	--
34-36	25.50	--	--	--	--	--
36-38	19.90	--	--	--	--	--
38-40	21.00	--	--	--	--	--
40-45	29.60	--	--	--	--	--
45-50	24.30	--	--	--	--	--
50-55	27.30	--	--	--	--	--
55-60	25.00	--	--	--	--	--
60-65	24.10	--	--	--	--	--
65-70	26.30	--	--	--	--	--
70-75	22.20	--	--	--	--	--
75-80	22.00	--	--	--	--	--
80-85	22.40	--	--	--	--	--
85-90	22.30	--	--	--	--	--

Table 5-1B59: Summary chemical and radiochemical data for sediment core ES_19C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	249.00	--	7.95	35.84	24.05	0.59
1-2	343.00	--	6.82	29.90	18.11	--
2-3	405.00	--	7.61	34.03	22.24	--
3-4	335.00	--	7.25	32.92	21.13	--
4-5	350.00	--	6.49	34.95	23.16	0.48
5-6	342.00	--	6.58	29.76	17.97	--
6-7	412.00	--	7.52	33.06	21.27	0.69
7-8	394.00	--	5.03	30.30	18.51	--
8-9	360.00	--	9.21	30.34	18.55	0.34
9-10	422.00	--	8.79	26.82	15.02	0.85
10-11	429.00	--	8.62	23.96	12.16	--
11-12	332.00	--	10.60	26.39	14.60	0.59
12-13	421.00	--	9.45	30.51	18.72	--
13-14	476.00	--	9.32	28.03	16.24	0.68
14-15	717.00	--	4.48	21.27	9.48	--
15-16	766.00	--	11.14	23.14	11.35	0.58
16-17	654.00	--	9.12	21.40	9.61	--
17-18	563.00	--	12.17	20.58	8.79	1.00
18-19	488.00	--	8.82	20.10	8.31	--
19-20	917.00	--	10.93	23.64	11.85	0.83
20-22	1030.00	--	1.33	18.23	6.44	--
22-24	1030.00	--	5.03	18.14	6.35	0.42
24-26	829.00	--	7.63	13.63	1.84	--
26-28	914.00	--	4.28	17.85	6.05	--
28-30	1120.00	--	4.83	14.56	2.77	0.43
30-32	137.00	--	1.36	12.97	1.18	--
32-34	136.00	--	1.81	13.74	1.95	--
34-36	258.00	--	0.38	13.85	2.06	--
36-38	154.00	--	2.21	10.61	0.00	0.11
38-40	146.00	--	0.04	12.41	0.62	--
40-45	72.90	--	1.26	10.38	0.00	0.07
45-50	36.70	--	1.82	11.15	0.00	--
50-55	52.10	--	1.12	10.81	0.00	--
55-60	85.20	--	0.02	10.88	0.00	--
60-65	94.40	--	0.47	13.03	1.24	--
65-70	52.60	--	0.03	12.07	0.28	--
70-75	40.10	--	0.37	12.64	0.85	--
75-80	35.80	--	0.03	13.67	1.88	--
80-85	27.20	--	0.03	9.55	0.00	--
85-90	22.60	--	0.01	12.15	0.36	--

Table 5-1B60: Summary chemical and radiochemical data for sediment core ES_20C_09V.

Depth interval (cm)	Total Hg (ng/g)	⁷ Be (mBq/g)	¹³⁷ Cs (mBq/g)	²¹⁰ Pb (mBq/g)	²¹⁰ Pb _{xs} (mBq/g)	^{239,240} Pu (mBq/g)
0-1	725.00	--	6.48	101.76	86.03	--
1-2	722.00	--	7.29	117.67	101.93	--
2-3	707.00	--	6.94	115.67	99.93	--
3-4	729.00	--	8.48	118.71	102.98	--
4-5	772.00	--	8.61	102.55	86.82	--
5-6	810.00	--	6.66	103.04	87.31	--
6-7	761.00	--	5.20	77.23	61.50	--
7-8	854.00	--	7.11	90.04	74.30	--
8-9	803.00	--	8.65	93.83	78.10	--
9-10	802.00	--	8.89	79.61	63.87	--
10-11	854.00	--	9.33	82.14	66.41	--
11-12	815.00	--	8.10	81.93	66.19	--
12-13	816.00	--	9.09	59.82	44.09	--
13-14	1070.00	--	11.15	70.62	54.89	--
14-15	1355.00	--	8.81	73.43	57.70	--
15-16	1390.00	--	10.63	57.00	41.27	--
16-17	1280.00	--	13.27	54.85	39.11	--
17-18	1280.00	--	10.55	76.12	60.39	--
18-19	1470.00	--	12.30	61.45	45.71	--
19-20	2060.00	--	10.24	51.30	35.57	--
20-22	1550.00	--	13.90	59.51	43.77	--
22-24	1770.00	--	10.80	53.33	37.60	--
24-26	1340.00	--	11.66	44.67	28.94	--
26-28	950.00	--	6.39	45.34	29.60	--
28-30	264.00	--	3.08	27.08	11.35	--
30-32	213.00	--	6.06	44.90	29.17	--
32-34	203.00	--	0.00	25.63	9.89	--
34-36	173.00	--	0.00	19.52	3.79	--
36-38	141.00	--	0.00	20.38	4.64	--
38-40	125.00	--	0.00	17.96	2.22	--
40-45	92.30	--	0.00	--	--	--
45-50	64.60	--	0.00	17.31	1.58	--
50-55	50.00	--	0.00	17.05	1.32	--
55-60	53.85	--	0.00	14.45	0.00	--
60-65	53.00	--	0.00	15.17	0.00	--
65-70	39.80	--	0.00	--	--	--
70-75	28.10	--	0.00	16.14	0.41	--
75-80	28.30	--	0.00	16.05	0.32	--
80-85	24.90	--	0.00	15.01	0.00	--
85-90	37.50	--	0.00	16.14	0.40	--

Table 5-1B61: Summary radionuclide modeling parameters for all cores.

AREA: Core	Total Hg peak depth (cm)	Total Hg sediment accumulation rate (cm/y)	¹³⁷ Cs peak depth (cm)	¹³⁷ Cs sediment accumulation rate (cm/y)	^{239,240} Pu peak depth (cm)	^{239,240} Pu sediment accumulation rate (cm/y)	²¹⁰ Pb _{xs} sediment accumulation rate (cm/y)	Mean sediment accumulation rate (cm/y)
PENOBSCOT RIVER:								
PBR_1.5B_09V	67.5	1.61	67.5	1.47	67.5	1.47	--	1.52
PBR_04C_09V	77.5	1.85	62.5	1.36	--	--	1.14	1.45
PBR_06C_09V	14.5	0.34	10.5	0.23	--	--	--	0.29
PBR_09A_09V	39.0	0.93	39.0	0.85	--	--	--	0.89
PBR_11B_09V	33.0	0.79	29.0	0.63	--	--	0.43	0.62
PBR_13B_09V	37.0	0.88	39.0	0.85	--	--	--	0.87
PBR_14CR_09V	42.5	1.01	39.0	0.85	--	--	0.66	0.84
PBR_10A_09V	35.0	0.83	33.0	0.72	--	--	0.58	0.71
PBR_16A_09V	17.5	0.42	19.5	0.42	16.5	0.36	0.49	0.42
PBR_05A_09V	33.0	0.79	33.0	0.72	39.0	0.85	--	0.79
PBR_17A_09V	35.0	0.83	37.0	0.80	--	--	0.73	0.79
PBR_18B_09V	18.5	0.44	18.5	0.40	--	--	0.41	0.42
PBR_19A_09V	52.5	1.25	47.5	1.03	--	--	1.14	1.14
PBR_20A_09V	12.5	0.30	12.5	0.27	--	--	--	0.29
PBR_21B_09V	7.50	0.18	9.50	0.21	--	--	--	0.20
PBR_21C_09V	16.5	0.39	12.5	0.27	--	--	0.48	0.38
PBR_23B_09V	14.5	0.35	--	--	--	--	--	0.35
PBR_26A_09V	7.50	0.18	--	--	--	--	--	0.18
PBR_25A_09V	3.50	0.08	4.50	0.10	--	--	0.25	0.14
PBR_27B_09V	42.5	1.01	47.5	1.03	--	--	1.10	1.05
PBR_28B_09V	15.5	0.37	--	--	15.5	0.34	0.29	0.33
PBR_29A_09V	16.5	0.39	16.5	0.36	--	--	0.42	0.39
PBR_30B_09V	13.5	0.32	15.5	0.20	--	--	0.25	0.30
PBR_31C_09V	27.0	0.64	27	0.59	--	--	--	0.62
MENDALL MARSH:								
MM_01B_09V	8.50	0.20	12.5	0.27	15.5	0.34	0.26	0.27
MM_02B_09V	67.5	1.61	57.5	1.25	--	--	0.95	1.27

Table 5-1B61 (Cont.): Summary radionuclide modeling parameters for all cores.

AREA: Core	Total Hg peak depth (cm)	Total Hg sediment accumulation rate (cm/y)	¹³⁷ Cs peak depth (cm)	¹³⁷ Cs sediment accumulation rate (cm/y)	^{239,240} Pu peak depth (cm)	^{239,240} Pu sediment accumulation rate (cm/y)	²¹⁰ Pb _{xs} sediment accumulation rate (cm/y)	Mean sediment accumulation rate (cm/y)
MENDALL MARSH:								
MM_03B_09V	112.5	2.68	112.5	1.97	--	--	0.91	1.85
MM_04C_09V	23.0	0.55	29.0	0.63	--	--	--	0.59
MM_05C_09V	18.5	0.44	18.5	0.40	21.0	0.46	--	0.43
MM_06A_09V	21.0	0.50	25.0	0.54	--	--	0.38	0.47
MM_07A_09V	29.0	0.69	35.0	0.76	35.0	0.76	0.67	0.72
MM_08A_09V	15.5	0.37	19.5	0.42	18.5	0.40	0.45	0.41
MM_09B_09V	17.5	0.42	18.5	0.40	--	--	0.35	0.39
MM_11B_09V	3.50	0.08	--	--	--	--	0.14	0.11
MM_12C_09V	--	--	9.50	0.21	--	--	--	0.21
ORLAND RIVER:								
OR_01B_09V	--	--	--	--	10.5	0.23	--	0.23
OR_02B_09V	14.5	0.35	10.5	0.23	11.5	0.25	--	0.28
OR_03A_09V	29.0	0.69	23.0	0.50	--	--	0.58	0.59
OR_05C_09V	31.0	0.74	29.0	0.63	--	--	--	0.69
OR_06B_09V	31.0	0.74	31.0	0.67	--	--	0.62	0.68
FORT POINT COVE AND LOWER ESTUARY:								
ES_19C_09V	29.0	0.69	17.5	0.38	17.5	0.38	0.48	0.48
ES_01B_09V	19.5	0.46	19.5	0.42	--	--	0.38	0.42
ES_18B_09V	3.50	0.08	1.50	0.03	--	--	0.19	0.10
ES_20C_09V	19.5	0.46	21.0	0.46	--	--	0.44	0.45
ES_02C_09V	27.0	0.64	21.0	0.46	25.0	0.54	0.56	0.55
ES_17C_09V	33.0	0.79	33.0	0.72	--	--	0.72	0.74
ES_03C_09V	5.50	0.13	5.50	0.12	--	--	0.17	0.14
ES_16C_09V	14.5	0.35	12.5	0.27	12.5	0.27	0.38	0.32

Table 5-1B61 (Cont.): Summary radionuclide modeling parameters for all cores.

AREA: Core	Total Hg peak depth (cm)	Total Hg sediment accumulation rate (cm/y)	¹³⁷ Cs peak depth (cm)	¹³⁷ Cs sediment accumulation rate (cm/y)	^{239,240} Pu peak depth (cm)	^{239,240} Pu sediment accumulation rate (cm/y)	²¹⁰ Pb _{xs} sediment accumulation rate (cm/y)	Mean sediment accumulation rate (cm/y)
FORT POINT COVE AND LOWER ESTUARY:								
ES_04C_09V	11.5	0.27	6.50	0.14	8.50	0.18	0.16	0.19
ES_14C_09V	37.0	0.88	39.0	0.85	--	--	0.81	0.85
ES_06A_09V	8.50	0.20	11.5	0.25	--	--	0.25	0.23
ES_15A_09V	19.5	0.46	15.5	0.34	13.5	0.29	0.35	0.36
ES_13C_09V	9.50	0.23	7.50	0.16	5.50	0.12	0.16	0.17
ES_12C_09V	17.5	0.42	16.5	0.36	--	--	0.33	0.37
ES_07A_09V	6.50	0.15	7.50	0.16	--	--	0.19	0.17
ES_08A_09V	14.5	0.35	12.5	0.27	--	--	0.33	0.32
ES_08C_09V	16.5	0.39	18.5	0.40	--	--	0.47	0.42
ES_09C_09V	14.5	0.35	15.5	0.34	--	--	0.42	0.37