THIN INTERVAL CORE SAMPLING REPORT

Penobscot River Phase III Engineering Study

Penobscot River Estuary, Maine

Prepared for:

United States District Court
District of Maine

Prepared by:

Amec Foster Wheeler Environment & Infrastructure, Inc.

September 2018

THIN INTERVAL CORE SAMPLING REPORT

Prepared for:

Prepared by:

EXECUTIVE SUMMARY

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APPENDICES

ACRONYMS AND ABBREVIATIONS

1.0 INTRODUCTION

[illegible] **(Figure 1-1).**

[illegible] *Work Order 4A-080/080A – Thin Interval Core Sampling, Penobscot River Phase III - Engineering Study, Penobscot River, Maine* [illegible]

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2.0 SEDIMENT COLLECTION AND PROCESSING ACTIVITIES

[illegible] **Appendix A** [illegible] **Appendix A-1** [illegible] **Appendix A-2** [illegible]

2.1 TERMINOLOGY AND DEFINITIONS USED IN REPORT

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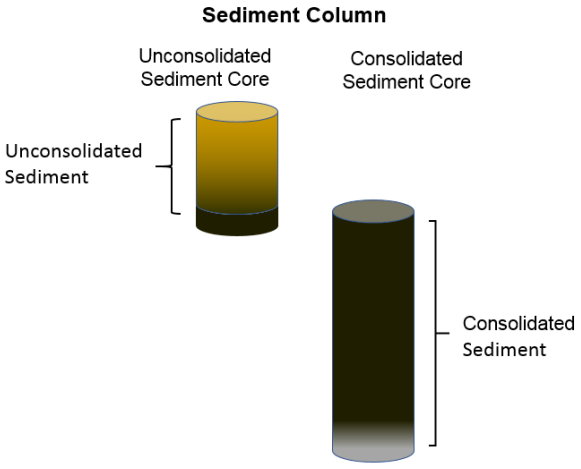
- [illegible] **Appendix A-1** [illegible] 13 [illegible]

Appendix A-1


Sediment Column
Unconsolidated Sediment Core
Consolidated Sediment Core
Unconsolidated Sediment
Consolidated Sediment

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2.2 DEVIATIONS FROM SCOPE

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2.3 FIELD SAMPLE COLLECTION SUMMARY

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2.3.1 Types of Sediment Collection

Table 2-1 [illegible] **Figure 2-1** [illegible]

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Additional information regarding the 1 sediment core collected during the 2013 survey is presented in Appendix A-2.

2.4 PROCESSING SUMMARY

Sediment core processing was performed in accordance with the procedures described in the Appendix A Addendum to the Quality Assurance Project Plan (AMEC, 2013).

2.4.1 Sediment Core Processing for Geochronology Cores

Sediment cores collected for geochronology analysis were processed in the laboratory using a vertical core extruder. Each core was extruded and sectioned at 1 cm intervals. Each sediment section was placed in a pre-labeled sample container and stored frozen until analysis. Sediment core processing was performed in accordance with the procedures described in the Appendix A Addendum to the Quality Assurance Project Plan (AMEC, 2013).

- 1 sediment core collected
- core sectioned
- core sectioned at 1 cm intervals

Additional information regarding sediment core processing is presented in Appendix A Addendum to the Quality Assurance Project Plan (AMEC, 2013); Appendix A-1; and Appendix A-2.

Table 2-1 presents a summary of the sediment core collected and processed during the 2013 survey.

- Sediment core was collected using a vibracore sampler. The core was collected in a clear polycarbonate tube (AMEC, 2013).
- Sediment core was collected on May 31, 2013 and was processed on June 3, 2013 (AMEC, 2013).

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2.4.2 Sediment Core Processing for Mercury-Specific Cores

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[illegible] **Appendix A** [illegible] **Appendix A-1;** [illegible] **Appendix A-2** [illegible]

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2.4.3 Sediment Core Processing for Unconsolidated Cores

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Appendix A
Appendix A-1;
Appendix A-2

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3.0 DATA QUALITY

3.1 DATA VALIDATION

3.1.1 Room Blanks

3.1.2 Inter-Laboratory Comparison Study

4.0 FINDINGS

Table 4-1 **Appendix A** **Appendix B** **Appendix C** **Figure 2-1** **Figure 4-1** **Figure 4-10** **Figure 4-11** **Figure 2-1**

Appendix C

4.1 GEOCHRONOLOGY CORES – CONSOLIDATED SEDIMENT

Figure 2-1 **Figure 4-1** **Figure 4-10** **Table 4-1** **Table 4-1** **Figure 4-1** **Figure 4-10**

[illegible] Appendix C [illegible]

[illegible] 31 [illegible] Appendix C Table 4-1 [illegible] Figure 4-1 [illegible] Figure 4-10 [illegible] Table 4-2 [illegible] Figure 4-12. [illegible]

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[illegible] **Appendix C** [illegible] **Table 4-2** [illegible] **Appendix C** [illegible]

[illegible] **Appendix C** [illegible] **Figure 4-11** [illegible]

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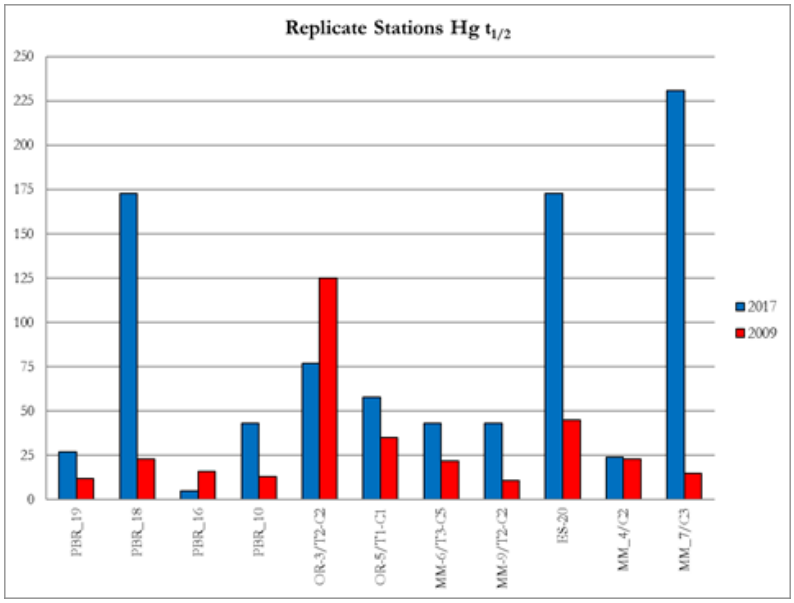
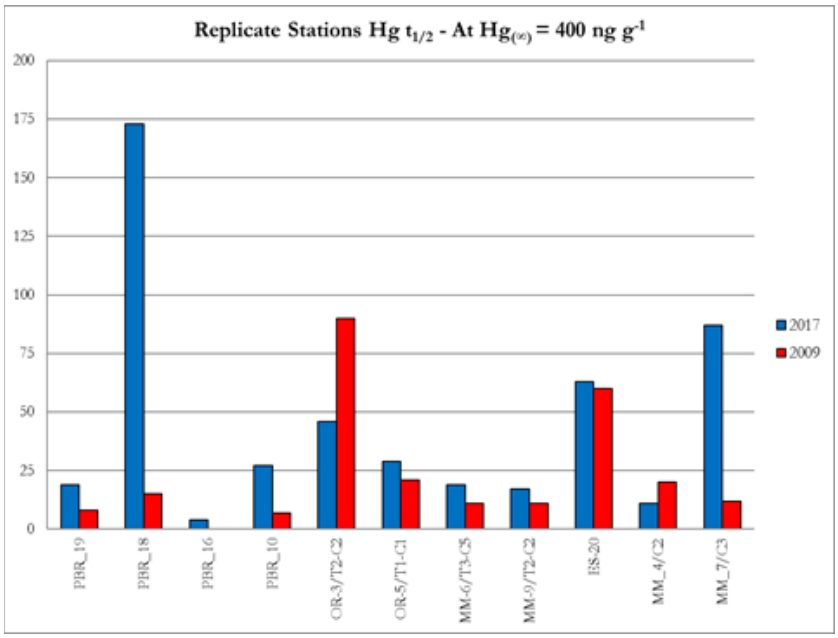

Replicate Stations Hg $t_{1/2}$
250
225
200
175
150
125
100
75
50
25
0
2017
2009
PBR_19
PBR_18
PBR_16
PBR_10
OR-3/T2-C2
OR-5/T1-C1
MM-6/T3-C5
MM-9/T2-C2
ES-20
MM_4/C2
MM_7/C3



[illegible] $t_{1/2}$ [illegible] $Hg_{(\infty)}$ [illegible] 400 ng g^{-1} [illegible]

[illegible] **Table 4-2** [illegible] **Figure 4-13** [illegible] **Figure 4-13** [illegible] **Appendix C** [illegible]

4.2 MERCURY-SPECIFIC CORES – CONSOLIDATED SEDIMENT

[illegible] ^{13} [illegible] **Appendix C** [illegible]

[illegible] **Table 4-2** [illegible] **Figure 2-1** [illegible]

[illegible] **Table 4-2** [illegible] **Figure 4-2** [illegible] **Figure 4-5** [illegible]

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4.4 SHORT CORES – UNCONSOLIDATED SEDIMENT

[illegible]

5.0 ASSESSMENT OF OBJECTIVES

[illegible]

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6.0 REFERENCES

[illegible]

TABLES

TABLE 2-1
SEDIMENT CORE STATION SUMMARY

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	2017 Station ID	2009 Station ID	Unconsolidated Sediments[1]	Consolidated Sediments[2]		Analyses Conducted[3]
					Radiochemistry + Mercury	Mercury-Specific	
Bangor	Intertidal	PBR-04	PBR-04	a	x		Rad, Hg, POC, TS, GS, BD
	Subtidal	PBR-10	PBR-10	a	x		Rad, Hg, POC, GS, BD
Orrington	Marsh Platform	PBR-16	PBR-16	c	x		Rad, Hg, POC, GS, BD
	Intertidal	PBR-18	PBR-18	x	x		Rad, Hg, TOC, TS, GS, BD
	Intertidal	PBR-19	PBR-19	a	x		Rad, Hg, POC, GS, BD
	Subtidal	PBR-20	PBR-20	x	x		Rad, Hg, TOC, GS, BD
Frankfort Flats	Subtidal	FF-MU7-GC-1		b	x		Rad, Hg, TOC, TS, GS, BD
	Subtidal	PBR-26	PBR-26	a	x		Rad, Hg, TOC, TS, GS, BD
Mendall Marsh	Marsh Platform	MM-C1[4]	MM-02	c		x	Hg, TOC, TS, BD
	Marsh Platform	MM-C2	MM-04	c	x		Rad, Hg, POC, GS, BD
	Marsh Platform	MM-C3	MM-07	c	x		Rad, Hg, POC, GS, BD
	Intertidal	MM-T1-C1		x		x	Hg, TOC, TS, BD
	Intertidal	MM-T1-C2		x		x	Hg, TOC, TS, GS, BD
	Subtidal	MM-T1-C3		a		x	Hg, TOC, TS, GS, OC, BD
	Marsh Platform	MM-T1-C4		c		x	Hg, TOC, TS, BD
	Marsh Platform	MM-T1-C5		c		x	Hg, TOC, TS, GS, OC, BD
	Marsh Platform	MM-T1-C6		c		x	Hg, TOC, TS, BD
	Marsh Platform	MM-T2-C1		c	x		Rad, Hg, TOC, TS, GS, BD
	Marsh Platform	MM-T2-C2	MM-09	c	x		Rad, Hg, POC, GS, BD
	Marsh Platform	MM-T2-C3		c	x		Rad, Hg, POC, GS, BD
	Intertidal	MM-T2-C4		a		x	Hg, TOC, TS, BD
	Subtidal	MM-T2-C5		a		x	Hg, TOC, TS, BD
	Intertidal	MM-T2-C6		a		x	Hg, TOC, TS, GS, OC, BD
	Marsh Platform	MM-T2-C7		c		x	Hg, TOC, TS, GS, OC

TABLE 2-1
SEDIMENT CORE STATION SUMMARY

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	2017 Station ID	2009 Station ID	Unconsolidated Sediments[1]	Consolidated Sediments[2]		Analyses Conducted[3]
					Radiochemistry + Mercury	Mercury-Specific	
Mendall Marsh	Marsh Platform	MM-T3-C1		c		x	Hg, TOC, TS, GS, OC, BD
	Intertidal	MM-T3-C2		x		x	Hg, TOC, TS, OC, BD
	Subtidal	MM-T3-C3		x		x	Hg, TOC, TS, GS, OC, BD
	Intertidal	MM-T3-C4		x		x	Hg, TOC, TS, OC, BD
	Marsh Platform	MM-T3-C5	MM-06	c	x		Rad, Hg, POC, GS, BD
	Marsh Platform	MM-T3-C6		c		x	Hg, TOC, TS, GS, OC, BD
	Marsh Platform	MM-T3-C7		c		x	Hg, TOC, TS, BD
	Marsh Platform	MM-T4-C1		c		x	Hg, TOC, TS, GS, OC, BD
	Intertidal	MM-T4-C2		x	x		Rad, Hg, TOC, TS, GS, OC,BD
	Marsh Platform	MM-T4-C3	MM-03	c	x		Rad, Hg, POC, GS, BD
	Marsh Platform	MM-T4-C4		c	x		Rad, Hg, POC, GS, BD
	Marsh Platform	MM-T4-C5		c		x	Hg, TOC, TS, GS, OC, BD
	Marsh Platform	MM-T4-C6		c		x	Hg, TOC, TS, GS, OC, BD
	Intertidal	MM-T4-C7		c		x	Hg, TOC, TS, BD
	Marsh Platform	MM-T5-C1		c		x	Hg, TOC, TS, BD
	Intertidal	MM-T5-C2		c		x	Hg, TOC, TS, GS, OC, BD
	Marsh Platform	MM-T5-C3		c		x	Hg, TOC, TS, BD
Verona Northeast	Intertidal	PBR-28	PBR-28	x	x		Rad, Hg, POC, GS, OC, BD
	Intertidal	VN-MU3-GC-1		x	x		Rad, Hg, TOC, TS, GS, OC,BD
Verona East	Intertidal	VE-MU4-GC-1		x	x		Rad, Hg, TOC, TS, GS, OC,BD

TABLE 2-1
SEDIMENT CORE STATION SUMMARY

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	2017 Station ID	2009 Station ID	Unconsolidated Sediments[1]	Consolidated Sediments[2]		Analyses Conducted[3]
					Radiochemistry + Mercury	Mercury-Specific	
Orland River	Intertidal	OR-C1	OR-06	c	x		Rad, Hg, POC, GS, BD
	Intertidal	OR-T1-C1	OR-05	x	x		Rad, Hg, POC, GS,POC, TS, OC,BD
	Intertidal	OR-T1-C2		x		x	Hg, TOC, TS, GS, OC, BD
	Intertidal	OR-T1-C3		x		x	Hg, TOC, TS, OC, BD
	Subtidal	OR-T1-C4		a		x	Hg, TOC, TS, GS, OC, BD
	Intertidal	OR-T1-C5		x		x	Hg, TOC, TS, GS, OC, BD
	Intertidal	OR-T2-C1		x		x	Hg, TOC, TS, OC, BD
	Intertidal	OR-T2-C2	OR-03	x	x		Rad, Hg, POC, GS, POC, TS, BD
	Subtidal	OR-T2-C3		x		x	Hg, TOC, TS, BD
	Intertidal	OR-T2-C4		x		x	Hg, TOC, TS, OC, BD
	Intertidal	OR-T2-C5		x	x		Rad, Hg, TOC, TS, GS, OC,BD
	Marsh Platform	OR-T3-C1		x		x	Hg, TOC, TS, GS, OC, BD
	Intertidal	OR-T3-C2	OR-02	x	x		Rad, Hg, TOC, TS, GS, OC,BD
	Intertidal	OR-T3-C3		a		x	Hg, TOC, TS, GS, OC
	Intertidal	OR-T3-C4		x		x	Hg, TOC, TS, OC, BD
	Intertidal	OR-T3-C5		x	x		Rad, Hg, TOC, TS, GS, OC,BD

TABLE 2-1
SEDIMENT CORE STATION SUMMARY

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	2017 Station ID	2009 Station ID	Unconsolidated Sediments[1]	Consolidated Sediments[2]		Analyses Conducted[3]
					Radiochemistry + Mercury	Mercury-Specific	
Upper Penobscot Bay	Subtidal	UPB-MU11-GC-1		x	x		Rad, Hg, TOC,TS, GS, OC, BD
	Subtidal	ES-18	ES-18	x	x		Rad, Hg, TOC,TS, GS, OC, BD
Fort Point Cove	Subtidal	ES-01	ES-01	x	x		Rad, Hg, TOC,TS, GS, OC, BD
	Subtidal	ES-17	ES-17	a	x		Rad, Hg, POC, GS, BD
	Subtidal	ES-20	ES-20	a	x		Rad, Hg, POC, GS, BD
TOTALS:		**65**	**22**	**27**	**31**	**34**	

Notes:

Prepared by: BJW 08/09/2018
Checked by: CTP 08/09/2018

1. Collected using 1-foot push or box core
2. Collected using 90-cm vibracore, manual piston core, or slidehammer
3. Analyses conducted for the entire station, not by core type
4. Location was proposed for geochronology and mercury analyses. Only mercury analysis performed.

a. Station was cored before receipt of the work order amendment authorization to collect unconsolidated cores.
b. Station was cored using methods to recover unconsolidated material. No material was recovered.
c. Station surface was vegetated or root laden; unconsolidated material/core not pertinent.

Abbreviations:

BD = bulk density
GS = grain size
Hg = total mercury
OC = organic content
POC = particulate organic carbon
Rad = radiochemistry
TOC = total organic carbon
TS = total solids

TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2]		Cesium-137		Lead-210		Polonium-210		TOC		POC		OC at 550° C		Total Solids		% Solids, Residual		Sand		Silt		Clay		Lithology	
										EPA 1631		Gamma Spec		Alpha Spec		Alpha Spec		Lloyd Kahn		% OC		ASTM D2974-C		% Solids		ASTM 2540B		UKY SOP		UKY SOP		UKY SOP			
										(ng/g)		(bq/kg)		(bq/kg)		(bq/kg)		(%)		(%)		(%)		(% by Wt.)		%		%		%		%			
										Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Major	Minor
Bang□r	□□□r□d□□□□d□□ □□□	□ □□□□□d□□□d	PBR □4 □	PBR □□□□□17_SED_000 □01CM	FS	9 □□□017	□□	0	1	2□39		0	U	□1□□		□□□		□□□		47□		NS		□□□		□□□		64□		32□		2□3		□□□d	□ □□□□ □□□ □□d□□ □□□
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				PBR □□□□□17_SED_0 11□12CM	FS	9 □□□017	□□	11	12	1□		0	U	16□1		□□□		□□□		12□3		NS		□□□		□□□		□3□		44□		2□6		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_0 12 □13CM	FS	9 □□□017	□□	12	13	1□5		0	U	15□		□□□		□□□		13□		NS		□□□		□□□		□3□		□3□		3□4		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_0 13□14CM	FS	9 □□□017	□□	13	14	2□17		0	U	□4□		□□□		□□□		12□		NS		□□□		□□□		49□		47□		2□1		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_0 14 □15CM	FS	9 □□□017	□□	14	15	2□6	J	0	U	18□		□□□		□□□		13□		NS		□□□		□□□		67□1		31□		1□7		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_0 15 □16CM	FS	9 □□□017	□□	15	16	1□		0	U	18□		□□□		□□□		13□		NS		□□□		□□□		66□		30□		2□6		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_0 16 □17CM	FS	9 □□□017	□□	16	17	2□2		0	U	□0□1		□□□		□□□		12□		NS		□□□		□□□		65□		32□		1□9		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_0 17 □18CM	FS	9 □□□017	□□	17	18	2□1		0	U	□□□		□□□		□□□		12□		NS		□□□		□□□		71□		26□3		1□6		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_0 18 □19CM	FS	9 □□□017	□□	18	19	3□		0	U	19□		□□□		□□□		12□		NS		□□□		□□□		65□		33□1		2		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_0 19 □20CM	FS	9 □□□017	□□	19	20	2□3		0	U	3□1		□□□		□□□		15□		NS		□□□		□□□		72□		25□		1□3		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_020 □22CM	FS	9 □□□017	□□	20	22	3□3		0	U	19□3		□□□		□□□		17□		NS		□□□		□□□		□3□		24□		1□		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_022 □24CM	FS	9 □□□017	□□	22	24	2□9		0	U	17□		□□□		□□□		13□		NS		□□□		□□□		72□		25□1		2□38		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_024 □26CM	FS	9 □□□017	□□	24	26	2□1		0	U	16□		□□□		□□□		20□1		NS		□□□		□□□		56□3		39□		4□32		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_026 □28CM	FS	9 □□□017	□□	26	28	2□38		0	U	13□		□□□		□□□		22□		NS		□□□		□□□		82□		16□		0□		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_028 □30CM	FS	9 □□□017	□□	28	30	2□8		0	U	16□		□□□		□□□		15□		NS		□□□		□□□		77□		21□3		1□7		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_ 30 □32CM	FS	9 □□□017	□□	30	32	2□5		0	U	17□		□□□		□□□		12□		NS		□□□		□□□		78□		19□		1□8		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_ 32 □34CM	FS	9 □□□017	□□	32	34	2□7		0	U	16□		□□□		□□□		15□		NS		□□□		□□□		55□3		41□		3□2		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_ 34 □36CM	FS	9 □□□017	□□	34	36	2□4		0	U	18□		□□□		□□□		12□1		NS		□□□		□□□		77□		21□3		1□3		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_ 36 □38CM	FS	9 □□□017	□□	36	38	4□31		0	U	17□		□□□		□□□		12□		NS		□□□		□□□		85□		14□		0□9		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_ 38 □40CM	FS	9 □□□017	□□	38	40	3□5		0	U	14□		□□□		□□□		15□		NS		□□□		□□□		82□		16□1		1□38		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_040 □45CM	FS	9 □□□017	□□	40	45	2□3		0	U	15□		□□□		□□□		14□		NS		□□□		□□□		88□3		10□		0□4		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_045 □50CM	FS	9 □□□017	□□	45	50	3□38		0	U	14□		□□□		□□□		9□		NS		□□□		□□□		85□		14□1		0□9		□□□d	□ □□□□ □□□r□□□□
				PBR □□□□□17_SED_050 □55CM	FS	9 □□□017	□□	50	55	2□3		0	U	13□		□□□		□□□		19□		NS		□□□		□□□		69□		28□		1□		□□□d	□ □□□□ □□□r□□□□
				PBR □□□□□17_SED_055 □60CM	FS	9 □□□017	□□	55	60	1□1		0	U	17□		□□□		□□□		17□		NS		□□□		□□□		59□3		38□		2□6		□□□d	□ □□□□ □□□r□□□□
				PBR □□□□□17_SED_060 □65CM	FS	9 □□□017	□□	60	65	2□32		0	U	16□		□□□		□□□		16□		NS		□□□		□□□		□3□		24□		1□8		□□□□□□□	
				PBR □□□□□17_SED_065 □70CM	FS	9 □□□017	□□	65	70	2□8		0	U	13□		□□□		□□□		14□		NS		□□□		□□□		82□		16□		1□39		□□□□□□□	
				PBR □□□□□17_SED_070 □75CM	FS	9 □□□017	□□	70	75	2□6		0	U	16□		□□□		□□□		19□		NS		□□□		□□□		90□		9□		0□39		□□□d	□□□□/ □□□
				PBR □□□□□17_SED_075 □80CM	FS	9 □□□017	□□	75	80	3□2		0	U	16□		□□□		□□□		15□		NS		□□□		□□□		68□		29□		2□11		□□□d	□□□□/ □□□
	□□□□d□□□□d□□ □□□	□ □□□□□d□□□d	PBR □10 □	PBR □10 □□17_SED □000 □01CM	FS	9 □□□017	□□	0	1	9□3		10□		14□		□□□		□□□		8□8		NS		□□□		□□□		14□		77□		8□13		□□□□□□□	
				PBR □10 □□17_SED □001□02CM	FS	9 □□□017	□□	1	2	7□0		8□9		□9□1		□□□		□□□		5□0		NS		□□□		□□□		17□		74□		7□4		□□□□□□□	
				PBR □10 □□17_SED □002 □□3CM	FS	9 □□□017	□□	2	3	8□0		9□8		□5□		□□□		□□□		4□2		NS		□□□		□□□		24□		68□		6□		□□□□□□□	
				PBR □10 □□17_SED □0 3□04CM	FS	9 □□□017	□□	3	4	9□5		11□1		□1□		□□□		□□□		5□30		NS		□□□		□□□		20□		71□		7□7		□□□□□□□	
				PBR □10 □□17_SED □004 □05CM	FS	9 □□□017	□□	4	5	□39		13□		□1□		□□□		□□□		6□18		NS		□□□		□□□		21□1		70□		8□5		□□□□□□□	
				PBR □10 □□17_SED □005 □06CM	FS	9 □□□017	□□	5	6	8□0		11□		□9□		□□□		□□□		5□1		NS		□□□		□□□		20□		69□		9□2		□□□□□□□	
				PBR □10 □□17_SED □006 □07CM	FS	9 □□□017	□□	6	7	8□4		12□		□3□1		□□□		□□□		5□17		NS		□□□		□□□		25□		66□		7□8		□□□□□□□	
				PBR □10 □□17_SED □007 □08CM	FS	9 □□□017	□□	7	8	7□9		13□		□6□1		□□□		□□□		3□2		NS		□□□		□□□		22□		71□		6□1		□□□□□□□	
				PBR □10 □□17_SED □008 □09CM	FS	9 □□□017	□□	8	9	9□1		10□1		□2□		□□□		□□□		6□6		NS		□□□		□□□		28□		65□		5□2		□□□□□□□	
				PBR □10 □□17_SED □009 □10CM	FS	9 □□□017	□□	9	10	1□170		11□		□0□		□□□		□□□		5□7		NS		□□□		□□□		19□		74□		6□3		□□□□□□□	
				PBR □10 □□17_SED □010 □11CM	FS	9 □□□017	□□	10	11	9□6		12□		□3□		□□□		□□□		3□0		NS		□□□		□□□		14□		77□1		8□8		□□□□□□□	
				PBR □10 □□17_SED □011□12CM	FS	9 □□□017	□□	11	12	1□170		13□1		□5□		□□□		□□□		6□6		NS		□□□		□□□		19□		72□		8□9		□□□□□□□	
				PBR □10 □□17_SED □012 □13CM	FS	9 □□□017	□□	12	13	1□60		12□3		□6□		□□□		□□□		5□2		NS		□□□		□□□		12□		79□		7□5		□□□□□□□	
				PBR □10 □□17_SED □013□14CM	FS	9 □□□017	□□	13	14	1□170		12□		□6□1		□□□		□□□		6□0		NS		□□□		□□□		21□		72□		6□4		□□□□□□□	
				PBR □10 □□17_SED □014 □15CM	FS	9 □□□017	□□	14	15	1□140		12□		□2□3		□□□		□□□		6□2		NS		□□□		□□□		18□		74□		7□12		□□□□□□□	
				PBR □10 □□17_SED □015 □16CM	FS	9 □□□017	□□	15	16	1□70		15□		□4□		□□□		□□□		5□7		NS		□□□		□□□		17□		74□		7□34		□□□□□□□	
				PBR □10 □□17_SED □016 □17CM	FS	9 □□□017	□□	16	17	1□130		14□1		□4□1		□□□		□□□		8□2		NS		□□□		□□□		16□		77□		6□4		□□□□□□□	
				PBR □10 □□17_SED □017 □18CM	FS	9 □□□017	□□	17	18	1□20		14□		□6□		□□□		□□□		4□5		NS		□□□		□□□		19□		□3□		6□6		□□□□□□□	
				PBR □10 □□17_SED □018 □19CM	FS	9 □□□017	□□	18	19	1□60		14□3		□4□1		□□□		□□□		5□0		NS		□□□		□□□		20□		□3□		5□3		□□□□□□□	
				PBR □10 □□17_SED □019 □20CM	FS	9 □□□017	□□	19	20	1□310		13□3		□8□		□□□		□□□		5□34		NS		□□□		□□□		27□		66□		5□9		□□□□□□□	
				PBR □10 □□17_SED □020 □22CM	FS	9 □□□017	□□	20	22	2□40		14□3		□7□		□□□		□□□		8□17		NS		□□□		□□□		□3□		69□3		7□		□□□□□□□	
				PBR □10 □□17_SED □022 □24CM	FS	9 □□□017	□□	22	24	2□60		17□		□7□		□□□		□□□		9□6		NS		□□□		□□□		24□		67□		7□7		□□□□□□□	
				PBR □10 □□17_SED □024 □26CM	FS	9 □□□017	□□	24	26	1□80		16□		□8□		□□□		□□□		8□6		NS		□□□		□□□		19□		□3□		7□9		□□□□□□□	
				PBR □10 □□17_SED □026 □28CM	FS	9 □□□017	□□	26	28	1□20		24□		□3□3		□□□		□□□		7□2		NS		□□□		□□□		12□1		79□		8□1		□□□□□□□	
				PBR □10 □□17_SED □028 □30CM	FS	9 □□□017	□□	28	30	2□40		19□		□7□		□□□		□□□		8□5		NS		□□□		□□□		11□		79□		9□4		□□□□□□□	
				PBR □10 □□17_SED □□30 □32CM	FS	9 □□□017	□□	30	32	3□70		16□		□7□		□□□		□□□		12□		NS		□□□		□□□		12□		75□		11□		□□□□□□□	
				PBR □10 □□17_SED □□32 □34CM	FS	9 □□□017	□□	32	34	2□110		18□		□0□		□□□		□□□		10□3		NS		□□□		□□□		10□		79□		10□		□□□□□□□	
				PBR □10 □□17_SED □□34 □36CM	FS	9 □□□017	□□	34	36	1□150		14□		39□		□□□		□□□		2□7		NS		□□□		□□□		31□		□3□		5□8		□□□□□□□	Grav□l
				PBR □10 □□17_SED □□36 □38CM	FS	9 □□□017	□□	36	38	1□30		25□		□3□		□□□		□□□		6□38		NS		□□□		□□□		27□		66□		5□6		□□□□□□□	Grav□l
				PBR □10 □□17_SED □□38 □40CM	FS	9 □□□017	□□	38	40	7□8		20□		□5□3		□□□		□□□		1□0		NS		□□□		□□□		47□		48□3		3□4		□□□□□□□	Grav□l
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2]		Cesium-137		Lead-210		Polonium-210		TOC		POC		OC at 550° C		Total Solids		% Solids, Residual		Sand		Silt		Clay		Lithology	
										EPA 1631		Gamma Spec		Alpha Spec		Alpha Spec		Lloyd Kahn		% OC		ASTM D2974-C		% Solids		ASTM 2540B		UKY SOP		UKY SOP		UKY SOP			
										(ng/g)		(bq/kg)		(bq/kg)		(bq/kg)		(%)		(%)		(%)		(% by Wt.)		%		%		%		%			
										Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Major	Minor
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				PBR □19□□17_SED □001□02CM	FS	8□17□017	□□	1	2	1□10		7□39		12□		□□□		□□□		6□		NS		□□□		□□□		9□4		79□		10□		□□□□□□	
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				PBR □19□□17_SED □0□3□04CM	FS	8□17□017	□□	3	4	1□42		3□1		1□3		□□□		□□□		13□1		NS		□□□		□□□		20□1		□3□		6□9		□□□□□□	
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				PBR □19□□17_SED □005□06CM	FS	8□17□017	□□	5	6	1□325		9□32		□4□		□□□		□□□		8□1		NS		□□□		□□□		40□		55□3		4□16		□□□□□□	
				PBR □19□□17_SED □006□07CM	FS	8□17□017	□□	6	7	1□61		9□9		10□		□□□		□□□		11□		NS		□□□		□□□		19□3		□3□		7□4		□□□□□□	
				PBR □19□□17_SED □007□08CM	FS	8□17□017	□□	7	8	1□82		10□3		□2□		□□□		□□□		12□		NS		□□□		□□□		18□		74□		7□7		□□□□□□	
				PBR □19□□17_SED □008□09CM	FS	8□17□017	□□	8	9	1□32		14□		□4□		□□□		□□□		6□8		NS		□□□		□□□		7□3		□3□		8□4		□□□□□□	
				PBR □19□□17_SED □009□10CM	FS	8□17□017	□□	9	10	1□59		15□1		□3□		□□□		□□□		12□		NS		□□□		□□□		13□		77□		8□2		□□□□□□	
				PBR □19□□17_SED □010□11CM	FS	8□17□017	□□	10	11	1□31		11□3		□1□		□□□		□□□		9□4		NS		□□□		□□□		11□1		81□		7□9		□□□□□□	
				PBR □19□□17_SED □011□12CM	FS	8□17□017	□□	11	12	1□56		15□		□9□		□□□		□□□		9□8		NS		□□□		□□□		11□		80□1		8□1		□□□□□□	
				PBR □19□□17_SED □012□13CM	FS	8□17□017	□□	12	13	1□16		13□		□8□		□□□		□□□		10□1		NS		□□□		□□□		5□8		87□		7□3		□□□□□□	
				PBR □19□□17_SED □013□14CM	FS	8□17□017	□□	13	14	1□47		11□		□6□		□□□		□□□		10□		NS		□□□		□□□		10□3		80□		8□3		□□□□□□	
				PBR □19□□17_SED □014□15CM	FS	8□17□017	□□	14	15	2□189		12□		□0□		□□□		□□□		11□		NS		□□□		□□□		13□		80□		5□9		□□□□□□	
				PBR □19□□17_SED □015□16CM	FS	8□17□017	□□	15	16	2□131		13□		□8□		□□□		□□□		12□3		NS		□□□		□□□		13□		76□		9□32		□□□□□□	
				PBR □19□□17_SED □016□17CM	FS	8□17□017	□□	16	17	2□37		8□5		□6□		□□□		□□□		13□		NS		□□□		□□□		16□		74□		9□1		□□□□□□	
				PBR □19□□17_SED □017□18CM	FS	8□17□017	□□	17	18	2□82		15□		□9□		□□□		□□□		10□1		NS		□□□		□□□		10□		81□3		8□		□□□□□□	
				PBR □19□□17_SED □018□19CM	FS	8□17□017	□□	18	19	2□33		10□		□3□		□□□		□□□		12□		NS		□□□		□□□		14□		78□		7□8		□□□□□□	
				PBR □19□□17_SED □019□20CM	FS	8□17□017	□□	19	20	2□22		13□3		□6□		□□□		□□□		14□3		NS		□□□		□□□		7□5		85□		6□		□□□□□□	
				PBR □19□□17_SED □020□22CM	FS	8□17□017	□□	20	22	2□310		12□		□8□		□□□		□□□		12		NS		□□□		□□□		5□3		87□		6□4		□□□□□□	
				PBR □19□□17_SED □022□24CM	FS	8□17□017	□□	22	24	2□40		16□		□1□		□□□		□□□		4□5		NS		□□□		□□□		7□6		□3□		8□9		□□□□□□	
				PBR □19□□17_SED □024□26CM	FS	8□17□017	□□	24	26	1□20		14□		□9□		□□□		□□□		9□7		NS		□□□		□□□		6□4		85□		8□7		□□□□□□	
				PBR □19□□17_SED □026□28CM	FS	8□17□017	□□	26	28	2□170		8□5		□1□		□□□		□□□		11□		NS		□□□		□□□		5□3		87□1		7□6		□□□□□□	
				PBR □19□□17_SED □028□30CM	FS	8□17□017	□□	28	30	1□90		8□17		□3□3		□□□		□□□		4□3		NS		□□□		□□□		18□		72□1		9□3		□□□d	Grav□l
				PBR □19□□17_SED □□30□32CM	FS	8□17□017	□□	30	32	1□300		1□33		□5□		□□□		□□□		9□1		NS		□□□		□□□		19□		72□		8□7		□□□□□□	□□□d
				PBR □19□□17_SED □□32□34CM	FS	8□17□017	□□	32	34	3□6		6□2		14□		□□□		□□□		3□1		NS		□□□		□□□		12□		77□		9□4		□□□□□□	□□□d
				PBR □19□□17_SED □□34□36CM	FS	8□17□017	□□	34	36	1□4		0□91		10□1		□□□		□□□		3□7		NS		□□□		□□□		11□		□3□		4□		□□□□□□	□□□d
				PBR □19□□17_SED □□36□38CM	FS	8□17□017	□□	36	38	46□		0□18701		10□		□□□		□□□		2□4		NS		□□□		□□□		19□		□3□3		7□9		□□□□□□	Grav□l
				PBR □19□□17_SED □□38□40CM	FS	8□17□017	□□	38	40	130		0□357		12□		□□□		□□□		4□2		NS		□□□		□□□		8□6		80□		11□1		□□□□□□	Grav□l
				PBR □19□□17_SED □040□45CM	FS	8□17□017	□□	40	45	1□6		0□09		14□1		□□□		□□□		4□1		NS		□□□		□□□		9□1		78□		12□		□□□□□□	Grav□l
				PBR □19□□17_SED □045□50CM	FS	8□17□017	□□	45	50	69□		1□4		11□		□□□		□□□		3□7		NS		□□□		□□□		6□3		84□3		8□6		□□□□□□	
				PBR □19□□17_SED □050□55CM	FS	8□17□017	□□	50	55	1□1		0		13□		□□□		□□□		3□5		NS		□□□		□□□		7□1		81□		11□		□□□□□□	
				PBR □19□□17_SED □055□59CM	FS	8□17□017	□□	55	59	74□3		0		11□		□□□		□□□		3□7		NS		□□□		□□□		17□		76□		6□7		□□□□□□	
	□□□□d□□□□d□□ □□□	□ □□□□□d□□d	PBR □□0□	PBR □□0□□17_SED □000□01CM	FS	9□6□017	□□	0	1	1□70		12□		□0□		□□□		4□3		□□□		NS		□3□	J	55□3		25□		68□		6□18		□□□□□□	
				PBR □□0□□17_SED □001□02CM	FS	9□6□017	□□	1	2	1□90		34□		35□		□□□		5□3		□□□		NS		5□	J	51□		28□		65□3		6□3		□□□□□□	
				PBR □□0□□17_SED □002□□3CM	FS	9□6□017	□□	2	3	1□00		11□		□6□		□□□		5□9		□□□		NS		□3□	J	36□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □0□3□04CM	FS	9□6□017	□□	3	4	1□130		10□		□0□		□□□		4□3		□□□		NS		5□	J	55□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □004□05CM	FS	9□6□017	□□	4	5	9□1		8□3		16□		□□□		6□11		□□□		NS		58	J	□3□		25□		70□1		4□1		□□□□□□	
				PBR □□0□□17_SED □005□06CM	FS	9□6□017	□□	5	6	1□30		8□6		14□		□□□		□□□		□□□		NS		□3□	J	□□□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □006□07CM	FS	9□6□017	□□	6	7	5□1		4□7		12□1		□□□		4□6		□□□		NS		6□	J	59□		20□		72□		6□7		□□□□□□	□□□d
				PBR □□0□□17_SED □007□08CM	FS	9□6□017	□□	7	8	212		0□05		□□8		□□□		□□□		□□□		NS		6□	J	□□□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □008□09CM	FS	9□6□017	□□	8	9	1□1		0	U	□□9		□□□		3□2		□□□		NS		6□	J	59□		16□		78□		5□1		□□□□□□	
				PBR □□0□□17_SED □009□10CM	FS	9□6□017	□□	9	10	65□		1□34		□□9		□□□		2□4		□□□		NS		61□	J	40		NS		NS		NS		□□□□□□	□□□d
				PBR □□0□□17_SED □010□11CM	FS	9□6□017	□□	10	11	44□		0□348		□□3		□□□		□□□		□□□		NS		6□	J	□□□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □011□12CM	FS	9□6□017	□□	11	12	39□		0	U	□□14		□□□		2□4		□□□		NS		6□	J	60□		14□		79□		5□7		□□□□□□	
				PBR □□0□□17_SED □012□13CM	FS	9□6□017	□□	12	13	35□		0□130		□□0		□□□		2□0		□□□		NS		6□	J	60□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □013□14CM	FS	9□6□017	□□	13	14	□3□		0	U	□□15		□□□		3□8		□□□		NS		5□3	J	38□		12□		81□		5□		□□□□□□	
				PBR □□0□□17_SED □014□15CM	FS	9□6□017	□□	14	15	□3		0□44		□□16		□□□		□□□		□□□		NS		51□	J	□□□		NS		NS		NS		□□□□□□	□ □□d□hi□s
				PBR □□0□□17_SED □015□16CM	FS	9□6□017	□□	15	16	52		0	U	□□□1		□□□		□□□		□□□		NS		5□1	J	□□□		NS		NS		NS		□□□□□□	□ □□d□hi□s
				PBR □□0□□17_SED □016□17CM	FS	9□6□017	□□	16	17	47□		1□5		□□0		□□□		5□9		□□□		NS		5□	J	36□		NS		NS		NS		□□□□□□	□ □□d□hi□s
				PBR □□0□□17_SED □017□18CM	FS	9□6□017	□□	17	18	65□		2□7		□□4		□□□		3□8		□□□		NS		56	J	□3□		29□		65□		5□37		□□□□□□	
				PBR □□0□□17_SED □018□19CM	FS	9□6□017	□□	18	19	33□		1□6		□□8		□□□		2□3		□□□		NS		5□	J	56□		NS		NS		NS		□□□□□□	□ □□d□hi□s
				PBR □□0□□17_SED □019□20CM	FS	9□6□017	□□	19	20	32□		0	U	□□9		□□□		□□□		□□□		NS		60	J	□□□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □020□22CM	FS	9□6□017	□□	20	22	30□1		0□6296		□□8		□□□		2□5		□□□		NS		62	J	□3□1		11□		81□		7□2		□□□□□□	
				PBR □□0□□17_SED □022□24CM	FS	9□6□017	□□	22	24	24□		0□60		□□9		□□□		3□0		□□□		NS		□3□	J	61□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □024□26CM	FS	9□6□017	□□	24	26	28□		0	U	□□□1		□□□		3□39		□□□		NS		57	J	54□		19□		74□		6□8		□□□□□□	□ □□d□hi□s
				PBR □□0□□17_SED □026□28CM	FS	9□6□017	□□	26	28	24□		0	U	□□9		□□□		3□4		□□□		NS		61□	J	60□		NS		NS		NS		□□□□□□	□ □□d□hi□s
				PBR □□0□□17_SED □028□30CM	FS	9□6□017	□□	28	30	□3□		1□2		□□4		□□□		2□0		□□□		NS		6□	J	60□		NS		NS		NS		□□□□□□	□ □□d□hi□s
				PBR □□0□□17_SED □□30□32CM	FS	9□6□017	□□	30	32	□3□		0	U	□□0		□□□		2□15		□□□		NS		6□1	J	60□3		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □□32□34CM	FS	9□6□017	□□	32	34	22□		0□105		□□7		□□□		2□2		□□□		NS		6□	J	64□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □□34□36CM	FS	9□6□017	□□	34	36	22□		2□9		□□2		□□□		1□1		□□□		NS		6□	J	51□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □□36□38CM	FS	9□6□017	□□	36	38	30□		0	U	□□6		□□□		2□5		□□□		NS		6□3	J	47□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □□38□40CM	FS	9□6□017	□□	38	40	114		0	U	□□9		□□□		3□19		□□□		NS		5□	J	57□		NS		NS		NS		□□□□□□	
				PBR □□0□□17_SED □040□45CM	FS	9□6□017	□□	40	45	28□3		0	U	□□8		□□□		2□9		□□□		NS		5□	J	60□		15□		76□		7□5		□□□□□□	
				PBR □□0□□17_SED □045□50CM	FS	9□6□017	□□	45	50	□3□		1□4		□□9		□□□		2□6		□□□		NS		6□	J	□3□		NS		NS		NS		□□□□□□	
	□□□□d□□□□d□□ □□□	□ □□□□□□□d□□d	PBR □□0□	PBR □□0□□17□SED_00□□1	FS	10□3□017	□□	0	0□1	3□0		□□□		□□□		□□□		2□4		□□□		7□19		5□	J	45□		NS		NS		NS		□□□□□□	
				PBR □□0□□17□SED_0□1□3	FS	10□3□017	□□	0□1	0□3	3□3		□□□		□□□		□□□		1□9		□□□		5□1		6□1	J	50		NS		NS		NS		□□□□□□	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g)		Cesium-137 Gamma Spec (bq/kg)		Lead-210 Alpha Spec (bq/kg)		Polonium-210 Alpha Spec (bq/kg)		TOC Lloyd Kahn (%)		POC % OC (%)		OC at 550°C ASTM D2974-C (%)		Total Solids % Solids (% by Wt.)		% Solids, Residual ASTM 2540B %		Sand UKY SOP %		Silt UKY SOP %		Clay UKY SOP %		Lithology	
										Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Major	Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor

TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g)		Cesium-137 Gamma Spec (bq/kg)		Lead-210 Alpha Spec (bq/kg)		Polonium-210 Alpha Spec (bq/kg)		TOC Lloyd Kahn (%)		POC % OC (%)		OC at 550°C ASTM D2974-C (%)		Total Solids % Solids (% by Wt.)		% Solids, Residual ASTM 2540B %		Sand UKY SOP %		Silt UKY SOP %		Clay UKY SOP %		Lithology	
										Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Major	Minor
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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				[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550°C ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g)		Cesium-137 Gamma Spec (bq/kg)		Lead-210 Alpha Spec (bq/kg)		Polonium-210 Alpha Spec (bq/kg)		TOC Lloyd Kahn (%)		POC % OC (%)		OC at 550ºC ASTM D2974-C (%)		Total Solids % Solids (% by Wt.)		% Solids, Residual ASTM 2540B %		Sand UKY SOP %		Silt UKY SOP %		Clay UKY SOP %		Lithology	
										Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Major	Minor
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g)		Cesium-137 Gamma Spec (bq/kg)		Lead-210 Alpha Spec (bq/kg)		Polonium-210 Alpha Spec (bq/kg)		TOC Lloyd Kahn (%)		POC % OC (%)		OC at 550ºC ASTM D2974-C (%)		Total Solids % Solids (% by Wt.)		% Solids, Residual ASTM 2540B %		Sand UKY SOP %		Silt UKY SOP %		Clay UKY SOP %		Lithology	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550°C ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550°C ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bg/kg) Res.	Qu	Lead-210 Alpha Spec (bg/kg) Res.	Qu	Polonium-210 Alpha Spec (bg/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550°C ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
M□d□□M□r□□□	M□r□□□/□□□r□ □□d□ □□□	M□r□□□□□	MM□□□□3	MM□□□□3□1□□□□□□□□□□□1□M	□□	1□□13□□1□	□□	□	1	□□□		□□□		□□□		□□□		13□		□□□		□□		□□□	□	3□□		□□		□□		□□		□□□□□	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g)		Cesium-137 Gamma Spec (bq/kg)		Lead-210 Alpha Spec (bq/kg)		Polonium-210 Alpha Spec (bq/kg)		TOC Lloyd Kahn (%)		POC % OC (%)		OC at 550°C ASTM D2974-C (%)		Total Solids % Solids (% by Wt.)		% Solids, Residual ASTM 2540B %		Sand UKY SOP %		Silt UKY SOP %		Clay UKY SOP %		Lithology Major	Lithology Minor
										Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu		
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
				[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
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				[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	

TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550°C ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
□r□d□r□	□r□d□d□	□d□d	□1□3□	OR □1□3□17_SED_000 □01CM	FS	10 □017	□	0	1	6□7		□		□		□		4□2	J	□		NS		4□	J	46□3		NS		NS		NS		□	
				OR □1□3□17_SED_000 □1CM_DUP	FD	10 □017	□	0	1	6□6		□		□		□		□		□		NS		47	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_00 1□02CM	FS	10 □017	□	1	2	7□3		□		□		□		4□1	J	□		NS		□3□	J	□3□3		NS		NS		NS		□	
				OR □1□3□17_SED_00 1□02CM_DUP	FD	10 □017	□	1	2	□38		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_002 □3CM	FS	10 □017	□	2	3	7□6		□		□		□		4□3	J	□		NS		□3□	J	40 □		NS		NS		NS		□	
				OR □1□3□17_SED_0 □3□04CM	FS	10 □017	□	3	4	8□2		□		□		□		5□38	J	□		NS		4□	J	42 □		NS		NS		NS		□	
				OR □1□3□17_SED_0 □3□04CM_DUP	FD	10 □017	□	3	4	□32		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_004 □05CM	FS	10 □017	□	4	5	□32		□		□		□		5□34	J	□		NS		3□	J	40 □		NS		NS		NS		□	
				OR □1□3□17_SED_004 □05CM_DUP	FD	10 □017	□	4	5	8□5		□		□		□		□		□		NS		3□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_005 □06CM	FS	10 □017	□	5	6	8□6		□		□		□		5□37	J	□		NS		3□	J	41□		NS		NS		NS		□	
				OR □1□3□17_SED_005 □06CM_DUP	FD	10 □017	□	5	6	1□00		□		□		□		□		□		NS		39	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_006 □07CM	FS	10 □017	□	6	7	8□9		□		□		□		6□1	J	□		NS		3□1	J	42		NS		NS		NS		□	
				OR □1□3□17_SED_006 □07CM_DUP	FD	10 □017	□	6	7	□35		□		□		□		□		□		NS		3□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_007 □08CM	FS	10 □017	□	7	8	7□2		□		□		□		5□2	J	□		NS		40	J	34 □		NS		NS		NS		□	
				OR □1□3□17_SED_008 □09CM	FS	10 □017	□	8	9	8□8		□		□		□		5□4	J	□		NS		38	J	39 □		NS		NS		NS		□	
				OR □1□3□17_SED_008 □09CM_DUP	FD	10 □017	□	8	9	□32		□		□		□		□		□		NS		3□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_009 □10CM	FS	10 □017	□	9	10	911		□		□		□		5□4	J	□		NS		39	J	39		NS		NS		NS		□	
				OR □1□3□17_SED_009 □10CM_DUP	FD	10 □017	□	9	10	911		□		□		□		□		□		NS		3□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_0 10□11CM	FS	10 □017	□	10	11	8□7		□		□		□		5□5	J	□		NS		4□	J	42 □		NS		NS		NS		□	
				OR □1□3□17_SED_0 10□11CM_DUP	FD	10 □017	□	10	11	8□6		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_0 11□12CM	FS	10 □017	□	11	12	8□6		□		□		□		5□9	J	□		NS		4□3	J	30 □		NS		NS		NS		□	
				OR □1□3□17_SED_0 11□12CM_DUP	FD	10 □017	□	11	12	1□70		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_0 12□13CM	FS	10 □017	□	12	13	8□5		□		□		□		6□7	J	□		NS		4□1	J	□3		NS		NS		NS		□	
				OR □1□3□17_SED_0 12□13CM_DUP	FD	10 □017	□	12	13	8□2		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_0 13□14CM	FS	10 □017	□	13	14	9□1		□		□		□		5□4	J	□		NS		4□	J	45 □		NS		NS		NS		□	
				OR □1□3□17_SED_0 13□14CM_DUP	FD	10 □017	□	13	14	8□9		□		□		□		□		□		NS		□3□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_0 14□15CM	FS	10 □017	□	14	15	9□6		□		□		□		5□3	J	□		NS		4□	J	45□3		NS		NS		NS		□	
				OR □1□3□17_SED_0 14□15CM_DUP	FD	10 □017	□	14	15	8□5		□		□		□		□		□		NS		41□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_0 15□16CM	FS	10 □017	□	15	16	9□9		□		□		□		6□30	J	□		NS		4□	J	41		NS		NS		NS		□	
				OR □1□3□17_SED_0 15□16CM_DUP	FD	10 □017	□	15	16	9□9		□		□		□		□		□		NS		41□	J	□		NS		NS		NS		□	
				OR □1□3□17_SED_0 16□17CM	FS	10 □017	□	16	17	9□9		□		□		□		6□4	J	□		NS		4□	J	42 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_0 16□17CM_DUP	FD	10 □017	□	16	17	1□130		□		□		□		□		□		NS		41□1	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_0 17□18CM	FS	10 □017	□	17	18	1□20		□		□		□		6□5	J	□		NS		41□3	J	44 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_0 17□18CM_DUP	FD	10 □017	□	17	18	1□60		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_0 18□19CM	FS	10 □017	□	18	19	8□0	J	□		□		□		7□5	J	□		NS		2□1	J	42 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_0 18□19CM_DUP	FD	10 □017	□	18	19	1□70	J	□		□		□		□		□		NS		1□3	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_0 19□20CM	FS	10 □017	□	19	20	1□20		□		□		□		8□2	J	□		NS		4□	J	32 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_0 19□20CM_DUP	FD	10 □017	□	19	20	1□130		□		□		□		□		□		NS		41	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_020 □22CM	FS	10 □017	□	20	22	1□50		□		□		□		6□35	J	□		NS		4□	J	41□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_020 □22CM_DUP	FD	10 □017	□	20	22	1□10		□		□		□		□		□		NS		41	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_022 □24CM	FS	10 □017	□	22	24	1□00		□		□		□		5□5	J	□		NS		□3□	J	38□3		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_022 □24CM_DUP	FD	10 □017	□	22	24	1□50		□		□		□		□		□		NS		□3□3	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_024 □26CM	FS	10 □017	□	24	26	1□50		□		□		□		7□8	J	□		NS		4□	J	45□3		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_024 □26CM_DUP	FD	10 □017	□	24	26	1□360		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_026 □28CM	FS	10 □017	□	26	28	1□30		□		□		□		6□9	J	□		NS		41□	J	24□1		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_026 □28CM_DUP	FD	10 □017	□	26	28	1□40		□		□		□		□		□		NS		41	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_028 □30CM	FS	10 □017	□	28	30	1□350		□		□		□		6□7	J	□		NS		41□	J	36 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_028 □30CM_DUP	FD	10 □017	□	28	30	1□350		□		□		□		□		□		NS		41□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_ □30□32CM	FS	10 □017	□	30	32	1□40		□		□		□		6□0	J	□		NS		4□	J	40 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_ □30□32CM_DUP	FD	10 □017	□	30	32	1□390		□		□		□		□		□		NS		41□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_ □32□34CM	FS	10 □017	□	32	34	1□30		□		□		□		7□7	J	□		NS		41□3	J	30□1		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_ □32□34CM_DUP	FD	10 □017	□	32	34	1□90		□		□		□		□		□		NS		41□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_ □34□36CM	FS	10 □017	□	34	36	1□80		□		□		□		7□2	J	□		NS		3□	J	29 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_ □34□36CM_DUP	FD	10 □017	□	34	36	1□20		□		□		□		□		□		NS		3□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_ □36□38CM	FS	10 □017	□	36	38	2□300		□		□		□		8□19	J	□		NS		4□	J	41□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_ □36□38CM_DUP	FD	10 □017	□	36	38	2□30		□		□		□		□		□		NS		4□3	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_ □38□40CM	FS	10 □017	□	38	40	3□20		□		□		□		8□4	J	□		NS		3□	J	34 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_ □38□40CM_DUP	FD	10 □017	□	38	40	3□10		□		□		□		□		□		NS		3□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_040 □45CM	FS	10 □017	□	40	45	3□10		□		□		□		9□38	J	□		NS		3□	J	44 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_040 □45CM_DUP	FD	10 □017	□	40	45	3□60		□		□		□		□		□		NS		3□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_045 □50CM	FS	10 □017	□	45	50	2□20		□		□		□		8□9	J	□		NS		4□	J	32□3		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_045 □50CM_DUP	FD	10 □017	□	45	50	2□90		□		□		□		□		□		NS		4□1	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_050 □55CM	FS	10 □017	□	50	55	2□190		□		□		□		9□5	J	□		NS		4□	J	38 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_050 □55CM_DUP	FD	10 □017	□	50	55	2□60		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_055 □60CM	FS	10 □017	□	55	60	1□170		□		□		□		5□6	J	□		NS		5□	J	49 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_055 □60CM_DUP	FD	10 □017	□	55	60	1□340		□		□		□		□		□		NS		5□1	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_060 □65CM	FS	10 □017	□	60	65	8□4		□		□		□		6□1	J	□		NS		4□	J	39 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_060 □65CM_DUP	FD	10 □017	□	60	65	8□2		□		□		□		□		□		NS		41□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_065 □70CM	FS	10 □017	□	65	70	4□9		□		□		□		7□9	J	□		NS		44	J	45 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_065 □70CM_DUP	FD	10 □017	□	65	70	4□3		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_070 □75CM	FS	10 □017	□	70	75	2□8		□		□		□		7□2	J	□		NS		4□3	J	31□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_070 □75CM_DUP	FD	10 □017	□	70	75	□37		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_075 □80CM	FS	10 □017	□	75	80	2□7		□		□		□		6□0	J	□		NS		42	J	38□1		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_075 □80CM_DUP	FD	10 □017	□	75	80	2□8		□		□		□		□		□		NS		□3□1	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_080 □85CM	FS	10 □017	□	80	85	312		□		□		□		6□3	J	□		NS		4□	J	45 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_080 □85CM_DUP	FD	10 □017	□	80	85	2□7		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_085 □90CM	FS	10 □017	□	85	90	1□5		□		□		□		5□2	J	□		NS		4□	J	47 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_085 □90CM_DUP	FD	10 □017	□	85	90	1□2		□		□		□		□		□		NS		4□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_090 □95CM	FS	10 □017	□	90	95	49 □		□		□		□		2□7	J	□		NS		51	J	59 □		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_090 □95CM_DUP	FD	10 □017	□	90	95	48 □		□		□		□		□		□		NS		51□	J	□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_095 □101CM	FS	10 □017	□	95	101	22 □		□		□		□		2□31	J	□		NS		5□	J	61□		NS		NS		NS		□	□d□hi□s
				OR □1□3□17_SED_095 1□1CM_DUP	FD	10 □017	□	95	101	24		□		□		□		□		□		NS		51□	J	□		NS		NS		NS		□/□	□d□

TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550°C ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor

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Penobscot River Estuary, Maine

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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550°C ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

										Mercury[2]		Cesium-137		Lead-210		Polonium-210		TOC		POC		OC at 550ºC		Total Solids		% Solids, Residual		Sand		Silt		Clay		Lithology	
										EPA 1631		Gamma Spec		Alpha Spec		Alpha Spec		Lloyd Kahn		% OC		ASTM D2974-C		% Solids		ASTM 2540B		UKY SOP		UKY SOP		UKY SOP			
					QC		Depth			(ng/g)		(bq/kg)		(bq/kg)		(bq/kg)		(%)		(%)		(%)		(% by Wt.)		%		%		%		%			
River Reach	Zone	Core Designation	Station ID	Sample ID	Code	Sample Date	Unit	Top Depth	Bottom Depth	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Major	Minor
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
				[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550°C ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g)		Cesium-137 Gamma Spec (bq/kg)		Lead-210 Alpha Spec (bq/kg)		Polonium-210 Alpha Spec (bq/kg)		TOC Lloyd Kahn (%)		POC % OC (%)		OC at 550ºC ASTM D2974-C (%)		Total Solids % Solids (% by Wt.)		% Solids, Residual ASTM 2540B %		Sand UKY SOP %		Silt UKY SOP %		Clay UKY SOP %		Lithology	
										Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Major	Minor
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550ºC ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Minor
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TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2] EPA 1631 (ng/g) Res.	Qu	Cesium-137 Gamma Spec (bq/kg) Res.	Qu	Lead-210 Alpha Spec (bq/kg) Res.	Qu	Polonium-210 Alpha Spec (bq/kg) Res.	Qu	TOC Lloyd Kahn (%) Res.	Qu	POC % OC (%) Res.	Qu	OC at 550°C ASTM D2974-C (%) Res.	Qu	Total Solids % Solids (% by Wt.) Res.	Qu	% Solids, Residual ASTM 2540B % Res.	Qu	Sand UKY SOP % Res.	Qu	Silt UKY SOP % Res.	Qu	Clay UKY SOP % Res.	Qu	Lithology Major	Lithology Minor
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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	[illegible]	[illegible]	[illegible][3]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
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				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	[illegible]

TABLE 4-1
SEDIMENT ANALYTICAL RESULTS[1]

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

River Reach	Zone	Core Designation	Station ID	Sample ID	QC Code	Sample Date	Depth Unit	Top Depth	Bottom Depth	Mercury[2]		Cesium-137		Lead-210		Polonium-210		TOC		POC		OC at 550° C		Total Solids		% Solids, Residual		Sand		Silt		Clay		Lithology	
										EPA 1631		Gamma Spec		Alpha Spec		Alpha Spec		Lloyd Kahn		% OC		ASTM D2974-C		% Solids		ASTM 2540B		UKY SOP		UKY SOP		UKY SOP			
										(ng/g)		(bq/kg)		(bq/kg)		(bq/kg)		(%)		(%)		(%)		(% by Wt.)		%		%		%		%			
										Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Res.	Qu	Major	Minor
Upp□r□□□□□□□□ay	□□□d□□□d□□□□	□□□□□d□□d	UPB□MU11□□C□1□□	UPB□MU11□□C□1□□□17_SED□000□01CM	FS	11□1□□017	□□	0	1	6□8		6□45		□□□		138□5		5□4		□□□		NS		41□3	J	41□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□0□1□02CM	FS	11□1□□017	□□	1	2	6□0		7□44		□□□		133□□		□□□		□□□		NS		4□□	J	□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□002□□3CM	FS	11□1□□017	□□	2	3	□□□		7□178		□□□		133□4		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□0□3□04CM	FS	11□1□□017	□□	3	4	□□□		3□□	UI	□□□		1□1□36		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□004□05CM	FS	11□1□□017	□□	4	5	□31		7□44		□□□		129□□		5□3		□□□		NS		41□□	J	42□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□005□06CM	FS	11□1□□017	□□	5	6	□□□		9□94		□□□		1□9□15		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□006□07CM	FS	11□1□□017	□□	6	7	□□□		9□87		□□□		1□8□8		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□007□08CM	FS	11□1□□017	□□	7	8	□□□		7□74		□□□		1□8□6		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□008□09CM	FS	11□1□□017	□□	8	9	□□□		3□□	UI	□□□		125□□		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□009□10CM	FS	11□1□□017	□□	9	10	□□□		7□85		□□□		116□2		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□010□11CM	FS	11□1□□017	□□	10	11	□□□		7□178		□□□		131□2		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□011□12CM	FS	11□1□□017	□□	11	12	□35		12□99		□□□		138□38		□□□		□□□		NS		4□1	J	□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□012□13CM	FS	11□1□□017	□□	12	13	□□□		6□08		□□□		112□11		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□013□14CM	FS	11□1□□017	□□	13	14	□□□		10□56		□□□		1□2□9		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□014□15CM	FS	11□1□□017	□□	14	15	7□4		10□□3		□□□		114□□		□□□		□□□		NS		4□3	J	□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□015□16CM	FS	11□1□□017	□□	15	16	6□2		7□55		□□□		1□0□7		□□□		□□□		NS		46	J	□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□016□17CM	FS	11□1□□017	□□	16	17	5□1		9□46		□□□		97□31		3□8		□□□		NS		49	J	□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□017□18CM	FS	11□1□□017	□□	17	18	8□8		9□72		□□□		1□6□6		□□□		□□□		NS		□3□	J	□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□018□19CM	FS	11□1□□017	□□	18	19	□□□		7□326		□□□		1□6□17		□□□		□□□		NS		□□□		□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□019□20CM	FS	11□1□□017	□□	19	20	7□3		8□362		□□□		1□8□1		□□□		□□□		NS		3□□	J	□□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□020□22CM	FS	11□1□□017	□□	20	22	7□6		12□47		□□□		111□37		5□□		□□□		NS		3□□	J	48		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□022□24CM	FS	11□1□□017	□□	22	24	9□8		9□79		□□□		86□5		5□7		□□□		NS		4□□	J	40□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□024□26CM	FS	11□1□□017	□□	24	26	9□9		9□9		□□□		□3□9		5□3		□□□		NS		3□□	J	40□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□026□28CM	FS	11□1□□017	□□	26	28	9□6		9□9		□□□		□8□□		5□8		□□□		NS		3□3	J	38□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□028□30CM	FS	11□1□□017	□□	28	30	□36		8□36		□□□		82□8		5□5		□□□		NS		3□□	J	37□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□□30□32CM	FS	11□1□□017	□□	30	32	1□10		9□87		□□□		89□1		5□5		□□□		NS		3□□	J	37□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□□32□34CM	FS	11□1□□017	□□	32	34	1□10		7□11		□□□		65□6		5□38		□□□		NS		4□1	J	37□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□□34□36CM	FS	11□1□□017	□□	34	36	1□90		10□45		□□□		□3□6		5□3		□□□		NS		4□□	J	40		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□□36□38CM	FS	11□1□□017	□□	36	38	1□20		13□09		□□□		67□1		5□8		□□□		NS		3□□	J	41□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□□38□40CM	FS	11□1□□017	□□	38	40	1□170		16□354		□□□		69□6		6□5		□□□		NS		41□□	J	37□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□040□45CM	FS	11□1□□017	□□	40	45	1□60		6□□3		□□□		56□1		6□2		□□□		NS		4□3	J	39□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□045□50CM	FS	11□1□□017	□□	45	50	1□30		15□□3		□□□		□3□8		7□15		□□□		NS		4□□	J	38□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□050□55CM	FS	11□1□□017	□□	50	55	1□40		13□38		□□□		50□9		5□7		□□□		NS		4□□	J	42□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□055□60CM	FS	11□1□□017	□□	55	60	1□00		17□316		□□□		44□3		7□9		□□□		NS		4□□	J	39□□		NS		NS		NS		□□□□□	
				UPB□MU11□□C□1□□□17_SED□060□65CM	FS	11□1□□017	□□	60	65	1□30		18□41		□□□		36□6		5□2		□□□		NS		4□□	J	44□□		NS		NS		NS		□□□□□	
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				UPB□MU11□□C□1□□□17_SED_07 □10_DUP	FD	10□3□017	□□	0□□	1	6□2		□□□		□□□		□□□		□□□		□□□		NS		4□□	J	□□□		NS		NS		NS		□□□□□	

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Abbreviations:
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TABLE 4-2
SUMMARY OF RECOVERY AND SEDIMENTATION RATES

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

Station	Core type	$Hg_{(0)}$	$Hg_{(max)}$	Recovery Rate		Sedimentation Rate			Inventory
				$T_{1/2}$	$T_{1/2}$*	Hg	^{137}Cs	$^{210}Pbxs$	Hg
		(ng/g)		(years)		(cm/y)			(ng/cm²)
VN □MU3- □C □1□D	□eoch rono □gy	711	1,510	77	770	0□4	0.6	0□39	30□174
VE □MU4- □C □1□E		9□3	9□3	□□	nc	□-	□-	--	2□11
□□□□M□11□□□1□		□□□	31□□	□□	□□	1□3□	1□1□	□□	□
UPB □MU11□C □1-C2 □)		680	1,950	na	na	1□5	□-	--	39□666
PBR □28 □		713	891	na	na	□-	□-	--	97□071
PBR □6-A		681	□34	na	na	□-	□-	--	6□25
PBR □0-E		1,070	1,290	na	na	□-	□-	--	7□66
PBR □19-A		1□164	2,682	27	19	0□35	0.51	0□37	25□866
□□□□1□□		□□□	□□□□	1□3	1□3	□	□	□	3□
PBR □16 □		1,070	100,200	5	4	0□13	0□19	0.77	128,205
PBR □10-A		9□3	3,270	46	21	0□2	0.57	0.55	40□078
□□□□		□	□	□□	□□	□	□	□	3□
OR-T 3□5□		669	1,450	46	21	0□4	0.51	0.□3	20□304
OR-T 3□2□		1,480	1,900	na	na	□-	□-	--	14□795
OR □2□C5-B		715	5,260	46	□3	0□5	0.69	0.65	50□161
OR-T2 □2□		924	3,410	77	46	0□8	0.69	0.51	49□081
OR □1□C1-B		951	4□300	58	29	0□5	0.88	0.44	57□029
OR-C 1□		8□3	2,950	□□	nc	0□8	0.46	0.□3	41□507
MM□4□4□[1]		□□□	□33□	1□	□	□3	□3	0.25	□3
MM- □4- □3□		674	1,750	na	na	□-	□-	--	71□086
MM- □□- □2- □[1]		317	1,210	na	na	□-	□-	--	38□642
MM- □3- □5□		602	5,000	□3	19	0□2	0.46	0.51	35□752
MM□2□3- □		705	5,490	17	10	0□33	0□34	0.□3	28□593
MM□2□2- □		570	5,490	□3	17	0□39	0□36	0.□3	19□35
ES □01-C3		707	1,□30	na	na	0□7	□-	0.4	11□421
ES □17- □		5□3	1,200	39	15	0□8	0.57	0.56	17□855
ES □1□-B		706	706	i	i	□-	□-	--	5□01
ES □-A		586	1,620	173	□3	0□3	0□38	0□31	15□764
FF □MU7 □GC □1-B[1]		349	349	i	i	□-	□	□	2□75
MM□2□		584	4□310	24	11	0□4	0.6	0.52	54□965
MM- □3□		665	5,570	□31	87	0□33	0□31	0.52	39□105
MM□2□1□[1]		1□3	1□	□	□	□	□	--	1□33

TABLE 4-2
SUMMARY OF RECOVERY AND SEDIMENTATION RATES

Penobscot River Phase III Engineering Study
Penobscot River Estuary, Maine

Station	Core type	$Hg_{(0)}$	$Hg_{(max)}$	Recovery Rate $T_{1/2}$	Recovery Rate $T_{1/2}$*	Sedimentation Rate Hg	Sedimentation Rate ^{137}Cs	Sedimentation Rate $^{210}Pbxs$	Inventory Hg
		(ng/g)	(ng/g)	(years)	(years)	(cm/y)	(cm/y)	(cm/y)	(ng/cm²)
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Notes:

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Abbreviations:

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cm/y = centimeters per year

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]* = exponential fit to an equilibrium target concentration (Hg[∞]) of 400 ng/g

FIGURES

Service Layer Credits: Sources: Esri, HERE, DeLorme, increment P Corp., NPS, NRCan, Ordnance Survey, © OpenStreetMap contributors, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

N

Former Veazie Dam
Eddington
City of Bangor
Bangor
Former HoltraChem Facility
Orrington
Southern Cove
Orrington
Winterport
Winterport Boat Yard
Frankfort Flats
Bucksport Harbor
Mendall Marsh
Bucksport
Bucksport
Verona Northeast
Prospect
Orland River
Bucksport Thalweg
Verona Island
Verona East
Verona West
South Orland
Fort Point Cove
Upper Penobscot Bay
Fort Point
Cape Jellison
Sears Island
Cape Jellison
Belfast
Turner Point
Castine
Islesboro

Maine

0 1.5 3 6
Miles

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Symbol Key

Official Study Reach

Figure 1-1
Site Location and Reaches

Thin Interval Core Sampling Report
Penobscot River Phase III Engineering Study

Project: 3616166052	Prepared: ICD 2/16/2018	Checked: BPW 2/16/2018

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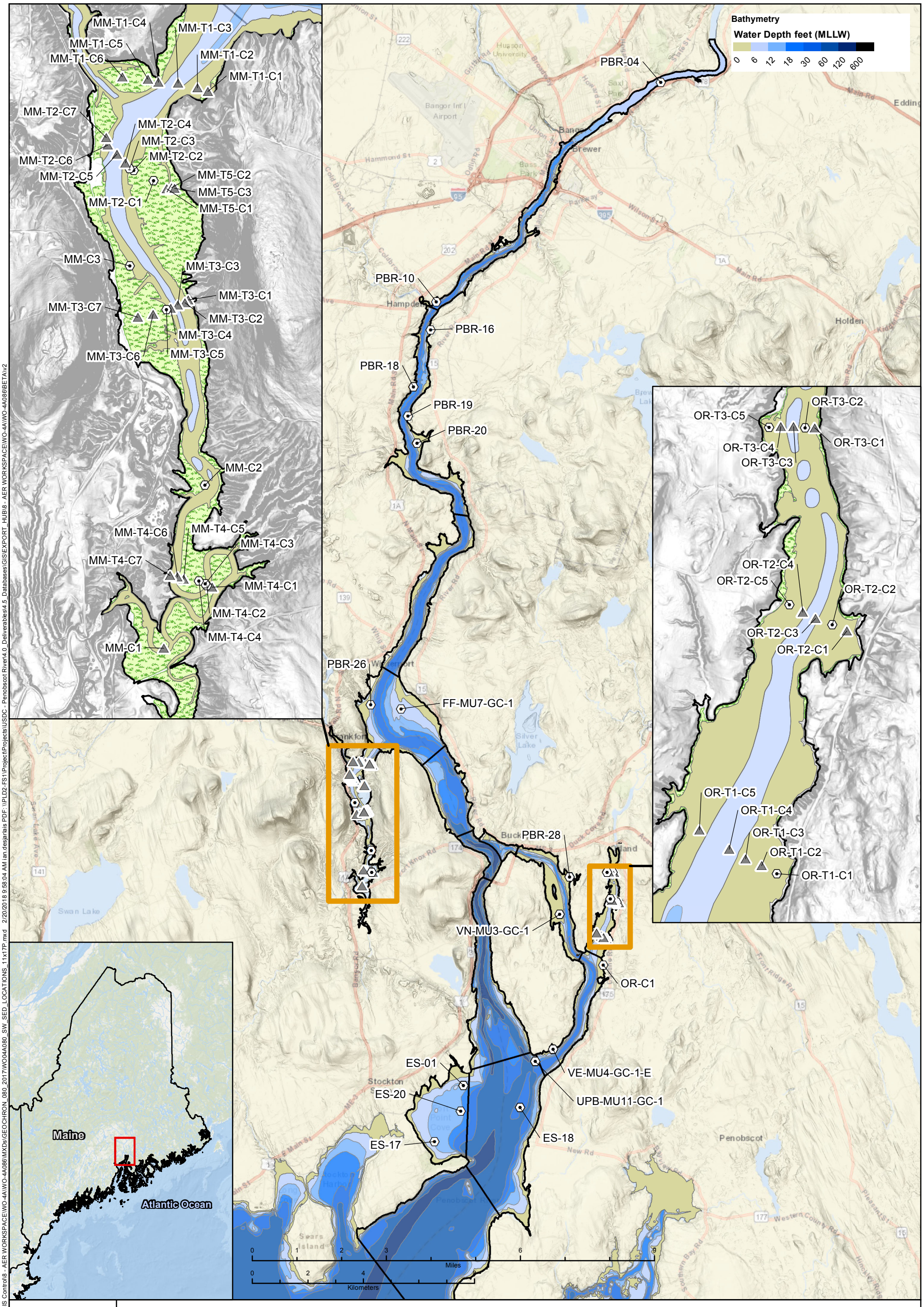

Symbol Key

- Radiochemistry and Mercury
- Mercury
- Official Study Reach
- Marsh Platform
- Intertidal Zone

Cores were obtained at proposed location MM-T2-C8. Care and preservation of these cores did not allow for analyses to be performed for use in this data set and is excluded. Results are comparable to those from work orders 30/40/50.

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Project: 3616166052	Prepared: ICD 2/20/2018	Checked: BPW 2/20/2018

Figure 2-1
Sediment Coring Locations

Thin Interval Core Sampling Report
Penobscot River Phase III Engineering Study

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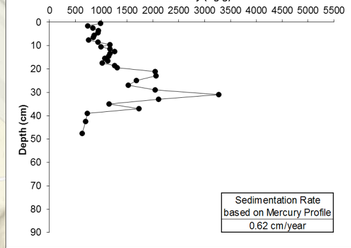
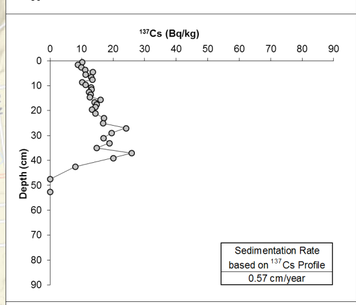
N

PBR-10-A
Subtidal
Total Mercury (ng/g)



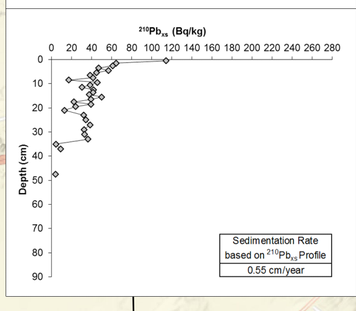
Sedimentation Rate based on Mercury Profile: 0.62 cm/year

^{137}Cs (Bq/kg)



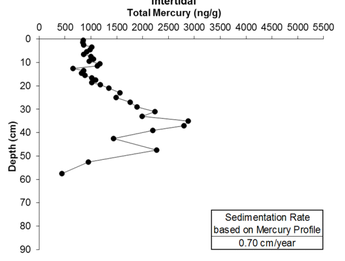
Sedimentation Rate based on ^{137}Cs Profile: 0.57 cm/year

$^{210}Pb_{xs}$ (Bq/kg)



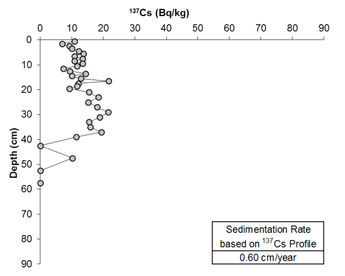
Sedimentation Rate based on $^{210}Pb_{xs}$ Profile: 0.55 cm/year

PBR-18-E
Intertidal
Total Mercury (ng/g)



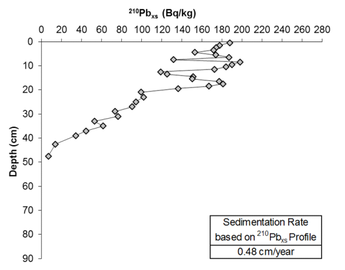
Sedimentation Rate based on Mercury Profile: 0.70 cm/year

^{137}Cs (Bq/kg)



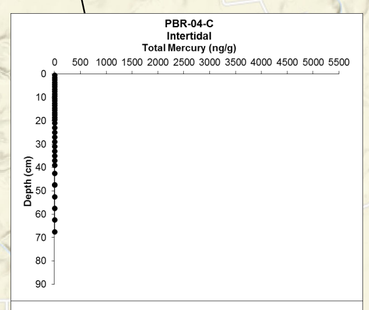
Sedimentation Rate based on ^{137}Cs Profile: 0.60 cm/year

$^{210}Pb_{xs}$ (Bq/kg)

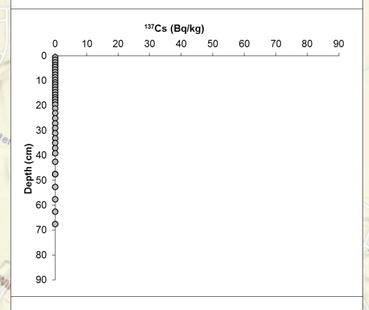


Sedimentation Rate based on $^{210}Pb_{xs}$ Profile: 0.48 cm/year

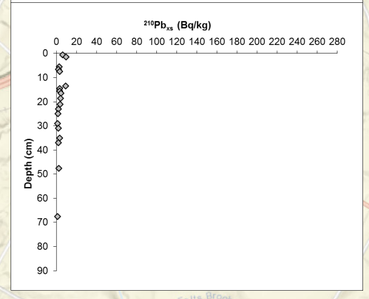
PBR-04-C
Intertidal
Total Mercury (ng/g)



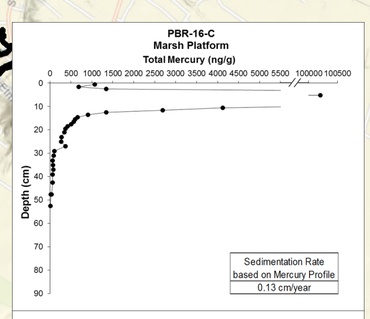
^{137}Cs (Bq/kg)



$^{210}Pb_{xs}$ (Bq/kg)

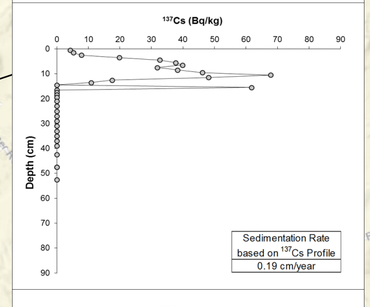


PBR-16-C
Marsh Platform
Total Mercury (ng/g)



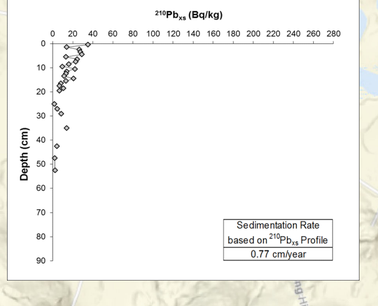
Sedimentation Rate based on Mercury Profile: 0.13 cm/year

^{137}Cs (Bq/kg)



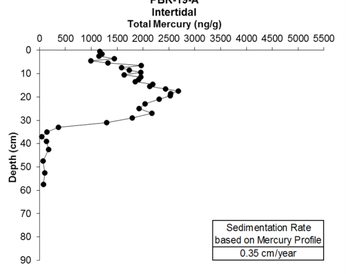
Sedimentation Rate based on ^{137}Cs Profile: 0.19 cm/year

$^{210}Pb_{xs}$ (Bq/kg)



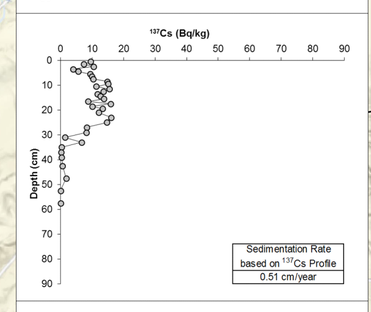
Sedimentation Rate based on $^{210}Pb_{xs}$ Profile: 0.77 cm/year

PBR-19-A
Intertidal
Total Mercury (ng/g)



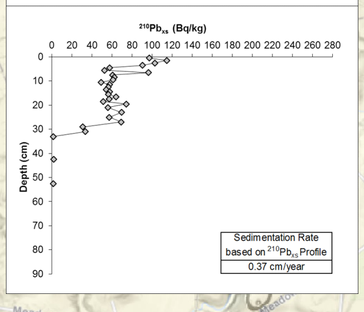
Sedimentation Rate based on Mercury Profile: 0.35 cm/year

^{137}Cs (Bq/kg)



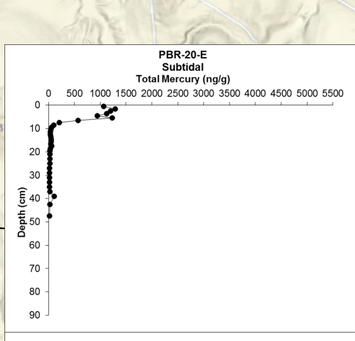
Sedimentation Rate based on ^{137}Cs Profile: 0.51 cm/year

$^{210}Pb_{xs}$ (Bq/kg)

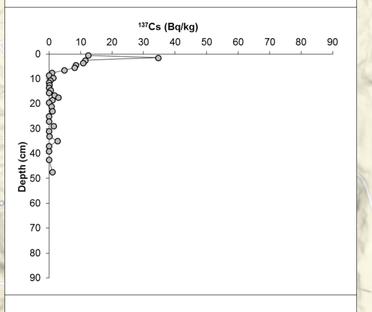


Sedimentation Rate based on $^{210}Pb_{xs}$ Profile: 0.37 cm/year

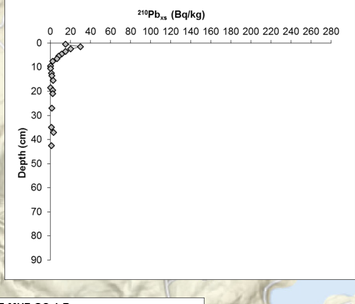
PBR-20-E
Subtidal
Total Mercury (ng/g)



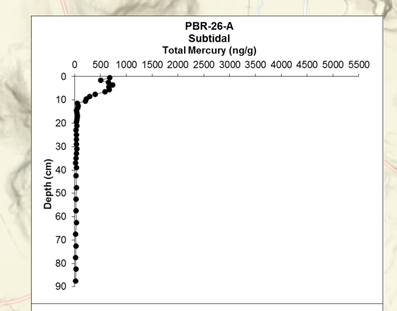
^{137}Cs (Bq/kg)



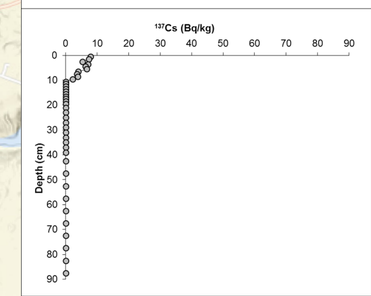
$^{210}Pb_{xs}$ (Bq/kg)



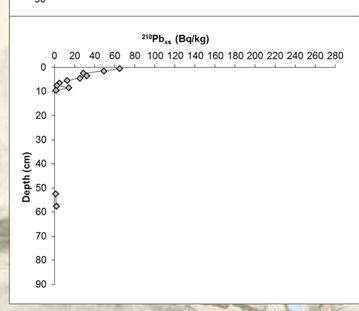
PBR-26-A
Subtidal
Total Mercury (ng/g)



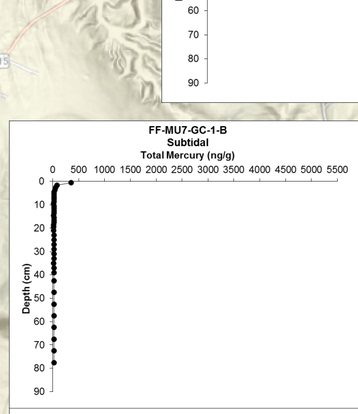
^{137}Cs (Bq/kg)



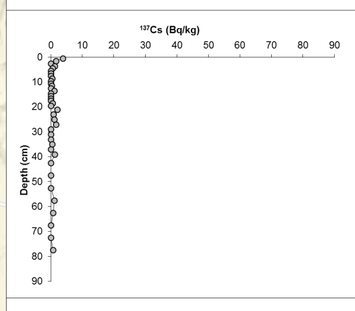
$^{210}Pb_{xs}$ (Bq/kg)



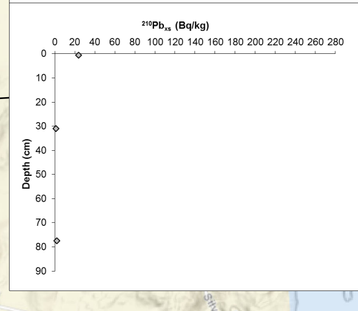
FF-MU7-GC-1-B
Subtidal
Total Mercury (ng/g)



^{137}Cs (Bq/kg)

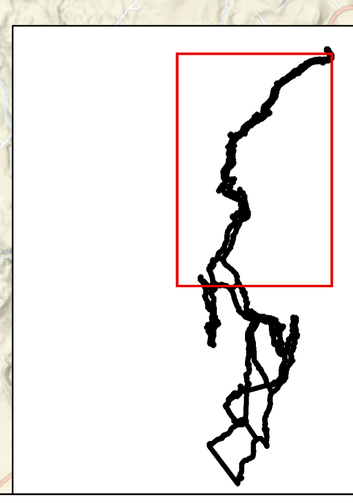


$^{210}Pb_{xs}$ (Bq/kg)



0 0.5 1 2 Miles

0 0.5 1 2 3 4 Kilometers



Bathymetry
Water Depth feet (MLLW)
0 6 12 18 30 60 120 600

Symbol Key
- New Phase III Sample Location
- Phase II Repeat Location
- Official Study Reach
- Marsh Platform
- Intertidal Zone

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Project: 3616166052 | Prepared: ICD 2/23/2018 | Checked: BPW 2/23/2018

[illegible]r[illegible]1
[illegible]r[illegible]r[illegible]Main Channel - North

Thin Interval Core Sampling Report
Penobscot River
Phase III Engineering Study

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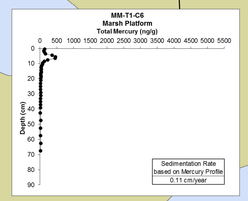

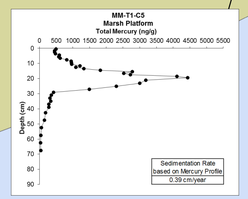

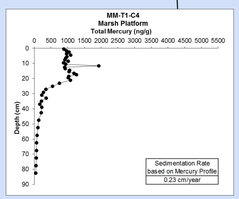

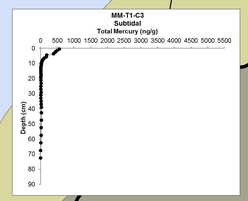

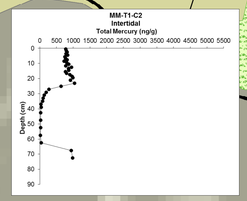

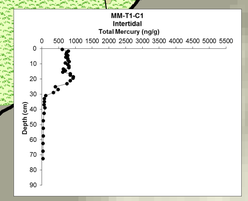

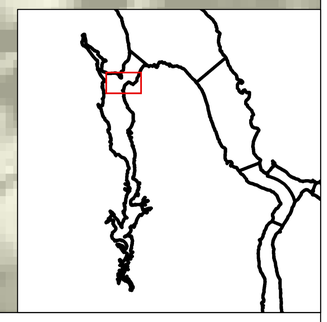

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Bathymetry

Water Depth feet (MLLW)

0 6 12 18 30 60 120 600

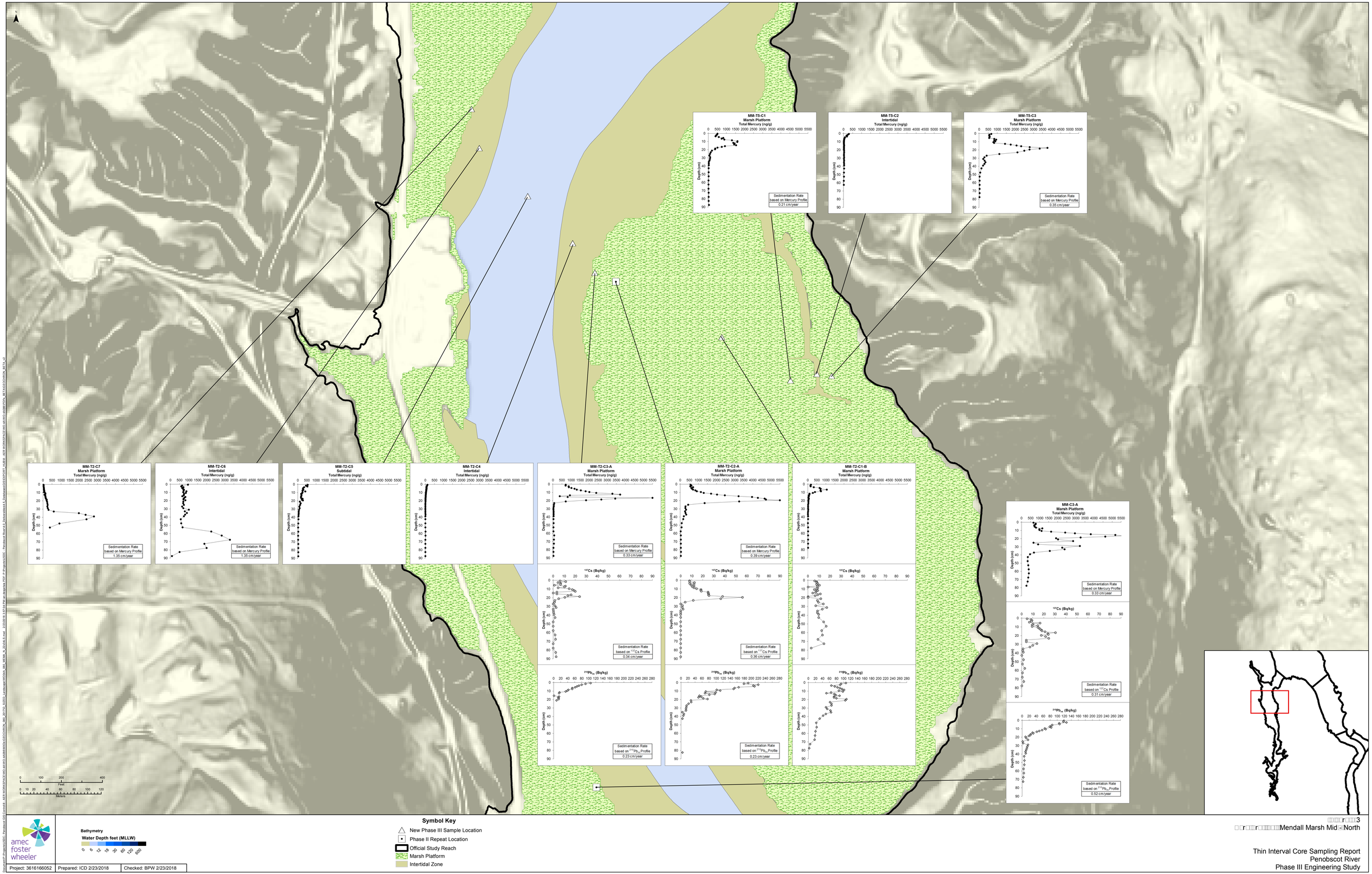
Symbol Key

- New Phase III Sample Location
- Official Study Reach
- Marsh Platform
- Intertidal Zone

Project: 3616166052 | Prepared: BRP 2/23/2018 | Checked: BPW 2/23/2018

□□r□□r□□□□□Mendall Marsh □North

Thin Interval Core Sampling Report
Penobscot River
Phase III Engineering Study


MM-T5-C1
Marsh Platform
Total Mercury (ng/g)
Depth (cm)
Sedimentation Rate based on Mercury Profile
0.21 cm/year
MM-T5-C2
Intertidal
Total Mercury (ng/g)
Depth (cm)
MM-T5-C3
Marsh Platform
Total Mercury (ng/g)
Depth (cm)
Sedimentation Rate based on Mercury Profile
0.35 cm/year
MM-T2-C7
Marsh Platform
Total Mercury (ng/g)
Depth (cm)
Sedimentation Rate based on Mercury Profile
1.35 cm/year
MM-T2-C6
Intertidal
Total Mercury (ng/g)
Depth (cm)
Sedimentation Rate based on Mercury Profile
1.35 cm/year
MM-T2-C5
Subtidal
Total Mercury (ng/g)
Depth (cm)
MM-T2-C4
Intertidal
Total Mercury (ng/g)
Depth (cm)
MM-T2-C3-A
Marsh Platform
Total Mercury (ng/g)
Depth (cm)
Sedimentation Rate based on Mercury Profile
0.33 cm/year
137Cs (Bq/kg)
Depth (cm)
Sedimentation Rate based on 137Cs Profile
0.34 cm/year
210Pbtot (Bq/kg)
Depth (cm)
Sedimentation Rate based on 210Pbtot Profile
0.23 cm/year
MM-T2-C2-A
Marsh Platform
Total Mercury (ng/g)
Depth (cm)
Sedimentation Rate based on Mercury Profile
0.39 cm/year
137Cs (Bq/kg)
Depth (cm)
Sedimentation Rate based on 137Cs Profile
0.36 cm/year
210Pbtot (Bq/kg)
Depth (cm)
Sedimentation Rate based on 210Pbtot Profile
0.23 cm/year
MM-T2-C1-B
Marsh Platform
Total Mercury (ng/g)
Depth (cm)
137Cs (Bq/kg)
Depth (cm)
210Pbtot (Bq/kg)
Depth (cm)
MM-C3-A
Marsh Platform
Total Mercury (ng/g)
Depth (cm)
Sedimentation Rate based on Mercury Profile
0.33 cm/year
137Cs (Bq/kg)
Depth (cm)
Sedimentation Rate based on 137Cs Profile
0.31 cm/year
210Pbtot (Bq/kg)
Depth (cm)
Sedimentation Rate based on 210Pbtot Profile
0.52 cm/year
0 100 200 400
Feet
0 10 20 40 60 80 100 120
Meters
Bathymetry
Water Depth feet (MLLW)
0 6 12 18 30 60 120 600
Symbol Key
New Phase III Sample Location
Phase II Repeat Location
Official Study Reach
Marsh Platform
Intertidal Zone
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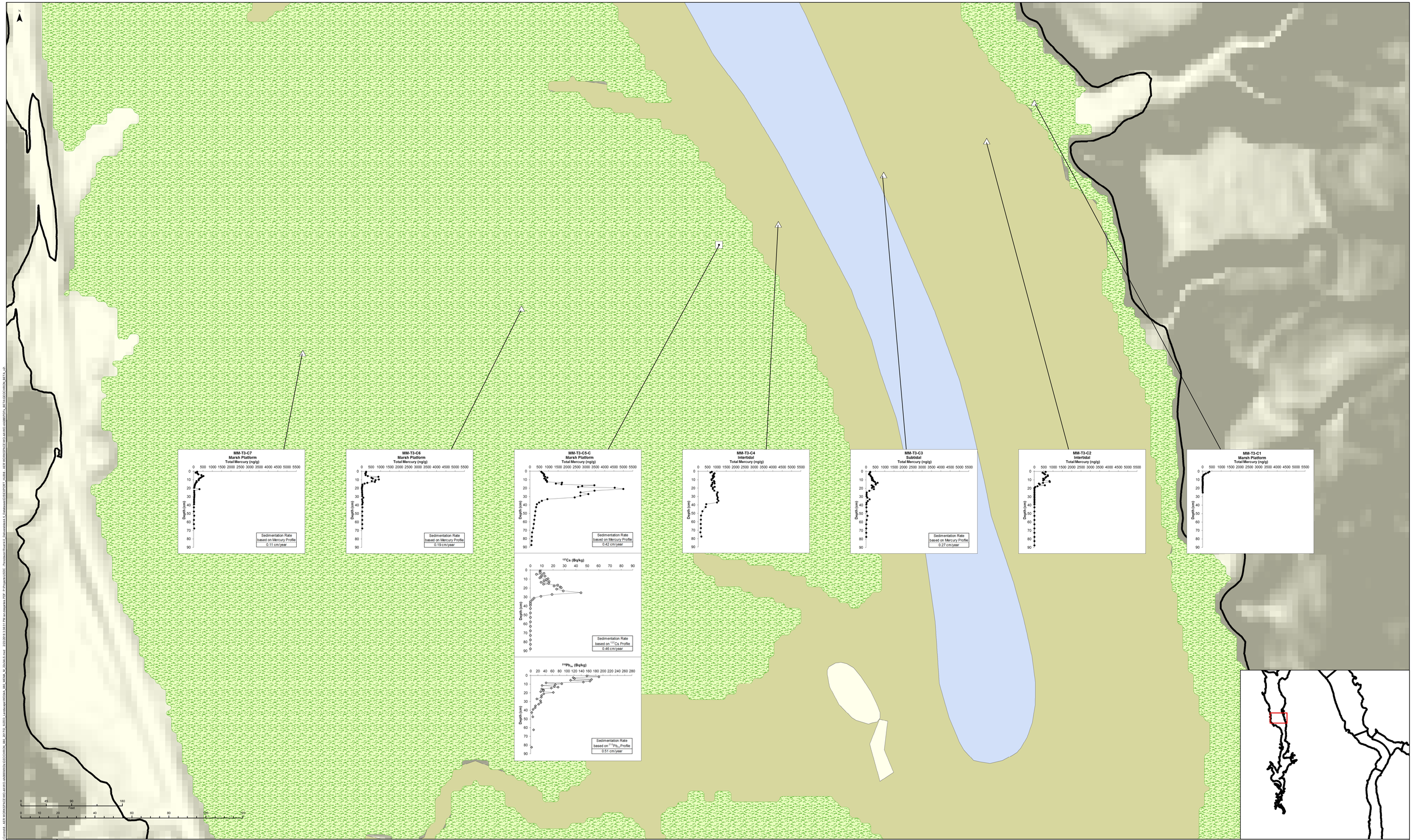
Project: 3616166052
Prepared: ICD 2/23/2018
Checked: BPW 2/23/2018
Mendall Marsh Mid North
Thin Interval Core Sampling Report
Penobscot River
Phase III Engineering Study



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Bathymetry

Water Depth feet (MLLW)

0 -6 -12 -18 -30 -60 -120 -600

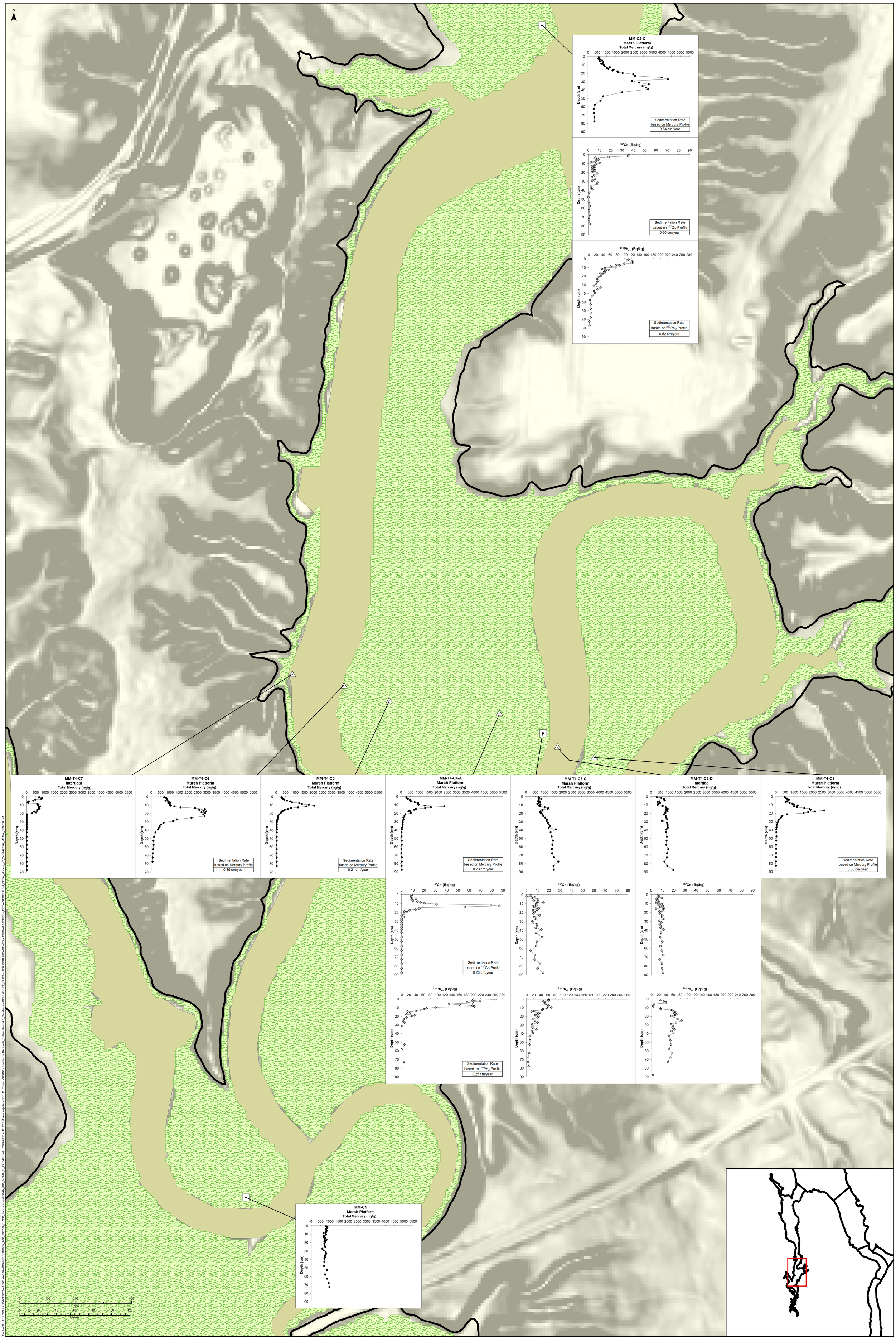
Symbol Key

- New Phase III Sample Location
- Phase II Repeat Location
- Official Study Reach
- Marsh Platform
- Intertidal Zone

□□r□□r□□□□Mendall Marsh Mid□South

Thin Interval Core Sampling Report
Penobscot River
Phase III Engineering Study

Project: 3616166052	Prepared: ICD 2/23/2018	Checked: BPW 2/23/2018



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Bathymetry
Water Depth feet (MLLW)
0 6 12 18 30 60 120 600

Service Layer Credits:

Project: 3616166052	Prepared: ICD 2/23/2018	Checked: BPW 2/23/2018

Symbol Key

- New Phase III Sample Location
- Phase II Repeat Location
- Official Study Reach
- Marsh Platform
- Intertidal Zone

□□□r□□□□
□□r□□□r□□□□□□Mendall Marsh - South

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Penobscot River
Phase III Engineering Study

Bathymetry

Water Depth feet (MLLW)

0 6 12 18 30 60 120 600

Symbol Key

- New Phase III Sample Location
- Phase II Repeat Location
- Official Study Reach
- Marsh Platform
- Intertidal Zone

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Verona North East

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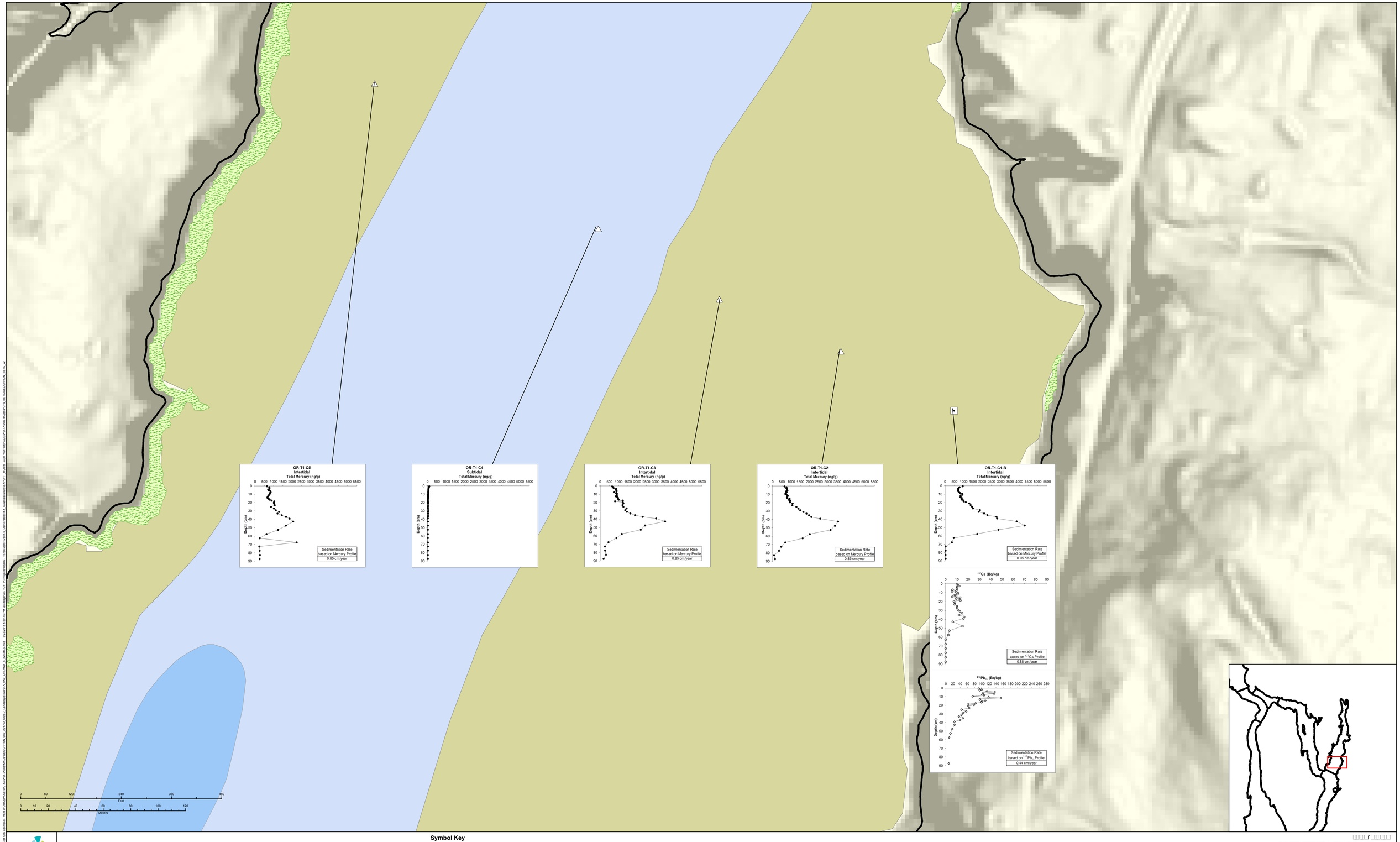
Phase III Engineering Study



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Bathymetry

Water Depth feet (MLLW)

0 6 12 18 30 60 120 6000

Symbol Key

- New Phase III Sample Location
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- Official Study Reach
- Marsh Platform
- Intertidal Zone

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Penobscot River
Phase III Engineering Study

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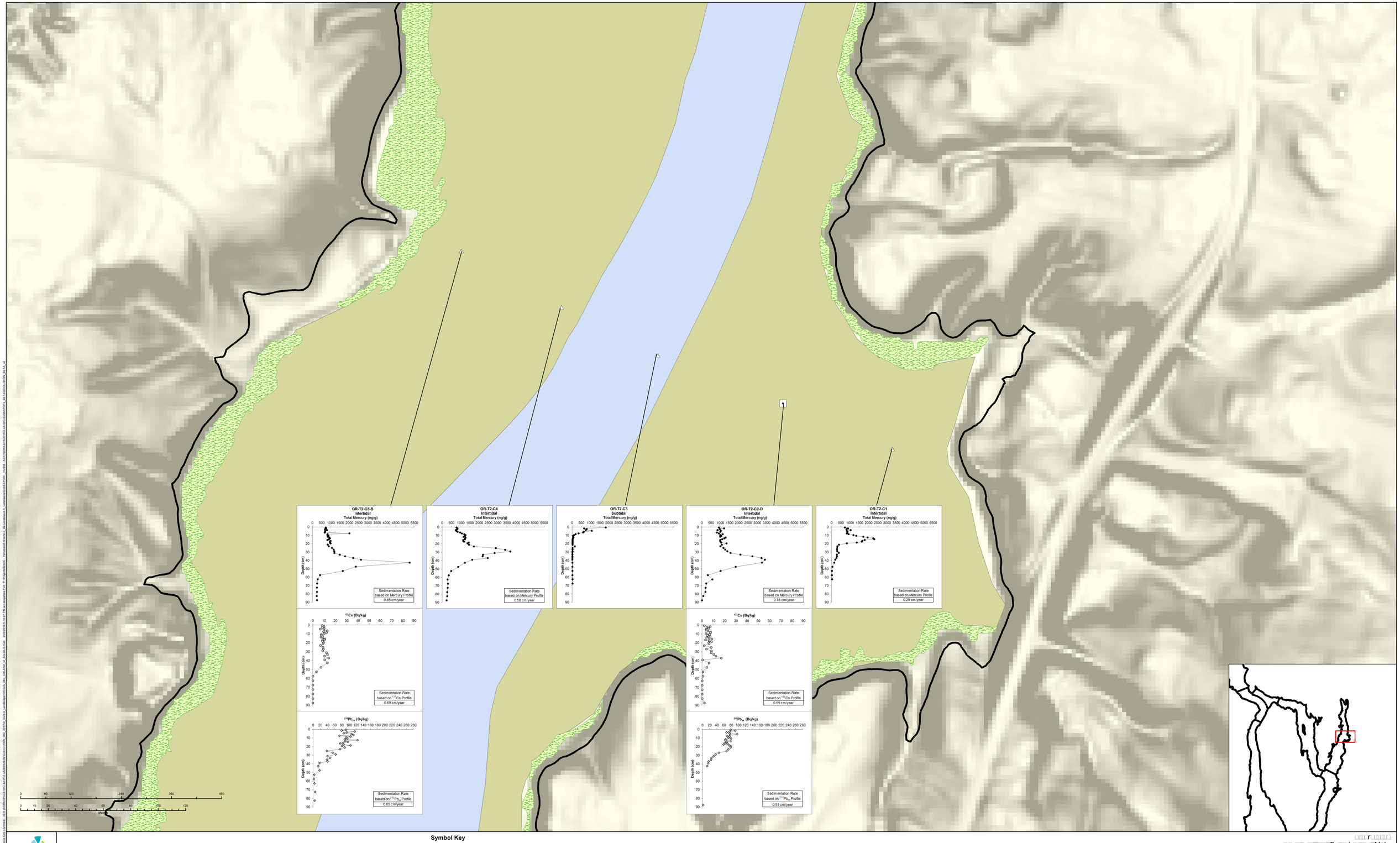

Symbol Key

- New Phase III Sample Location
- Phase II Repeat Location
- Official Study Reach
- Marsh Platform
- Intertidal Zone

Bathymetry

Water Depth feet (MLLW)

0 -6 -12 -18 -30 -60 -120 -600

Service Layer Credits:

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Phase III Engineering Study

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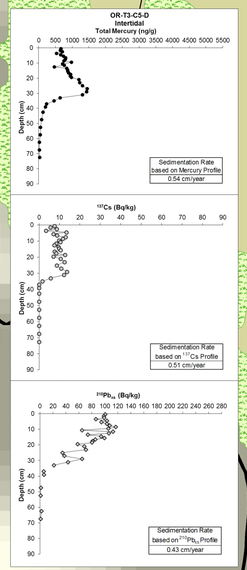
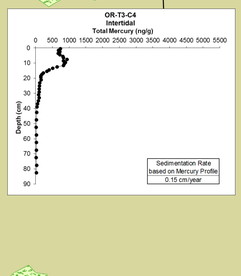
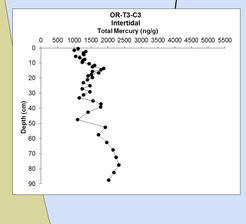
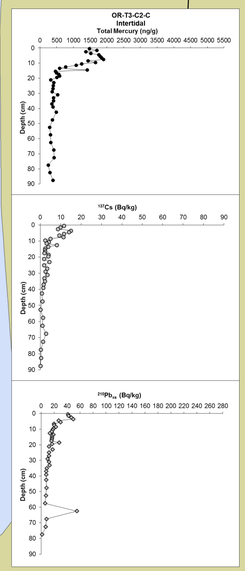
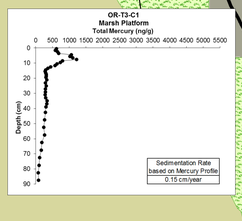


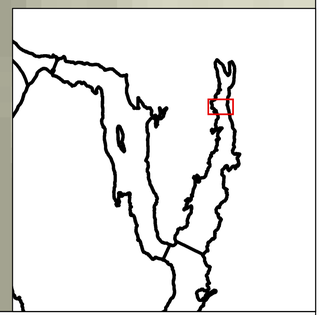








0 30 60 120 180 240
Feet
0 10 20 40 60 80 100 120
Meters



Bathymetry
Water Depth feet (MLLW)
0 -6 -12 -18 -30 -60 -120 -600

Symbol Key
- New Phase III Sample Location
- Phase II Repeat Location
- Official Study Reach
- Marsh Platform
- Intertidal Zone

□□□r□□□□□
□□r□□□r□□□□□□Or□□□d □ □□□r□□□North

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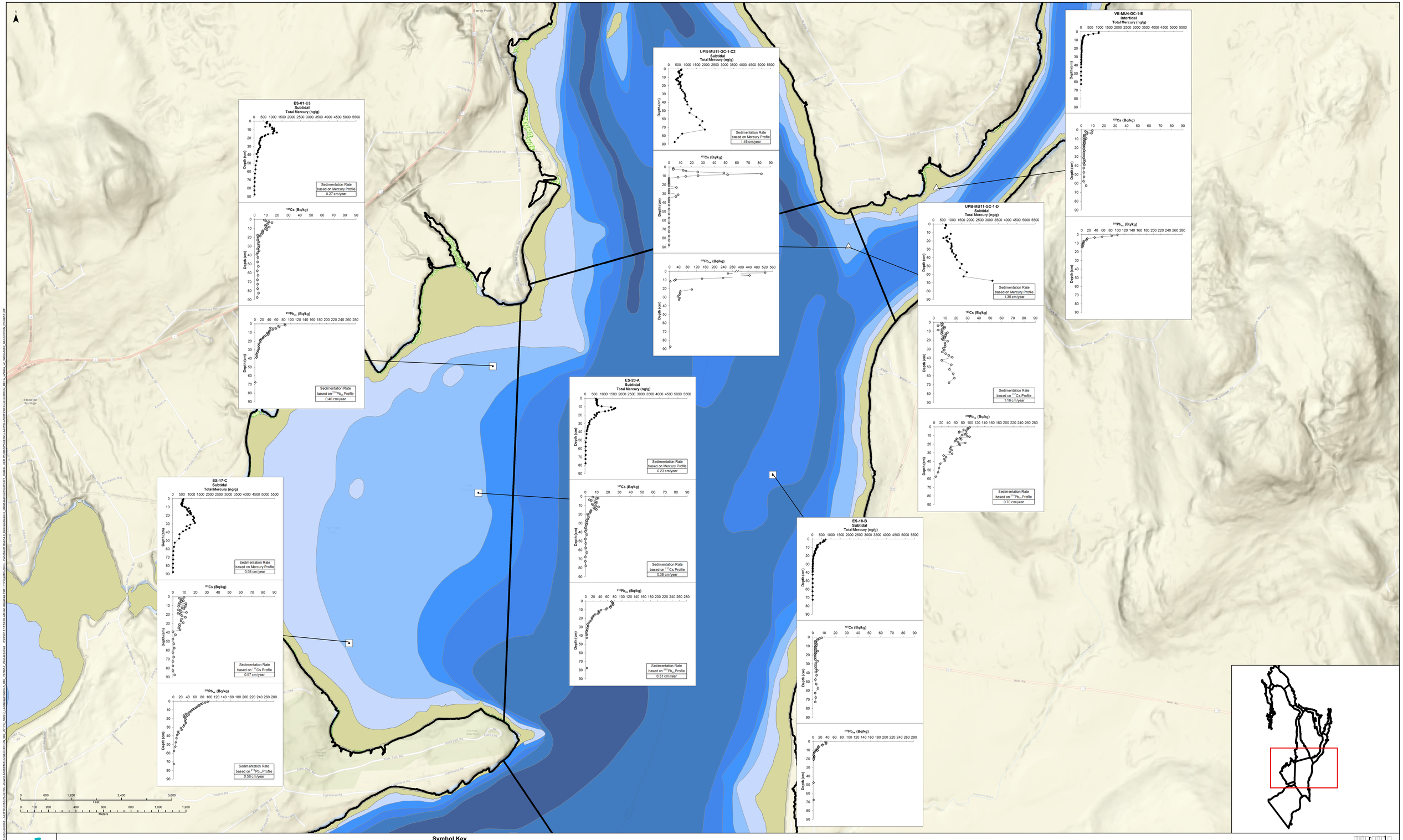

Symbol Key

- New Phase III Sample Location
- Phase II Repeat Location
- Official Study Reach
- Marsh Platform
- Intertidal Zone

Bathymetry

Water Depth feet (MLLW)

0 6 12 18 30 60 120 600

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Penobscot River
Phase III Engineering Study

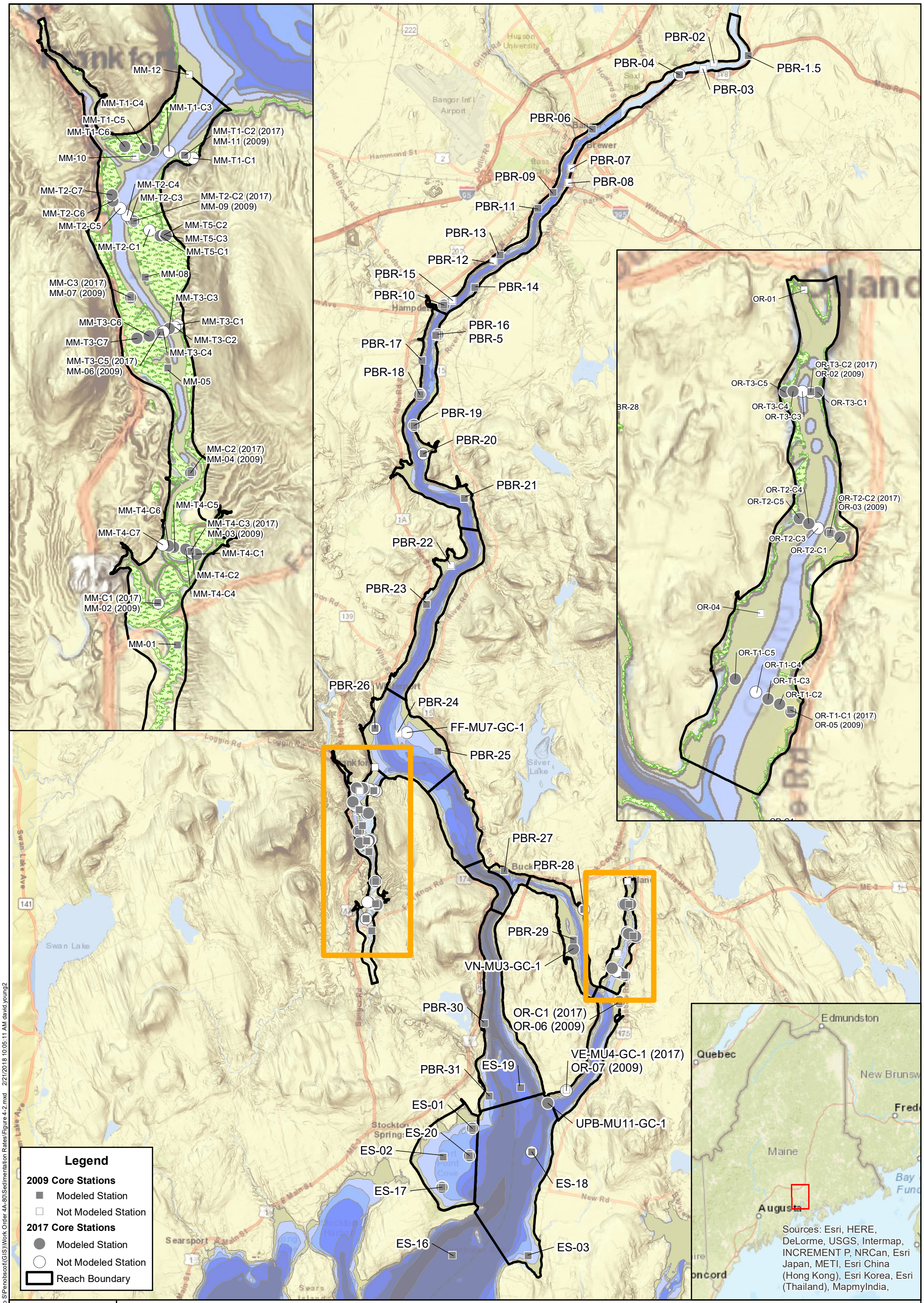

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Figure 4-11
2009 and 2017 Station Locations

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Penobscot River Phase III Engineering Study

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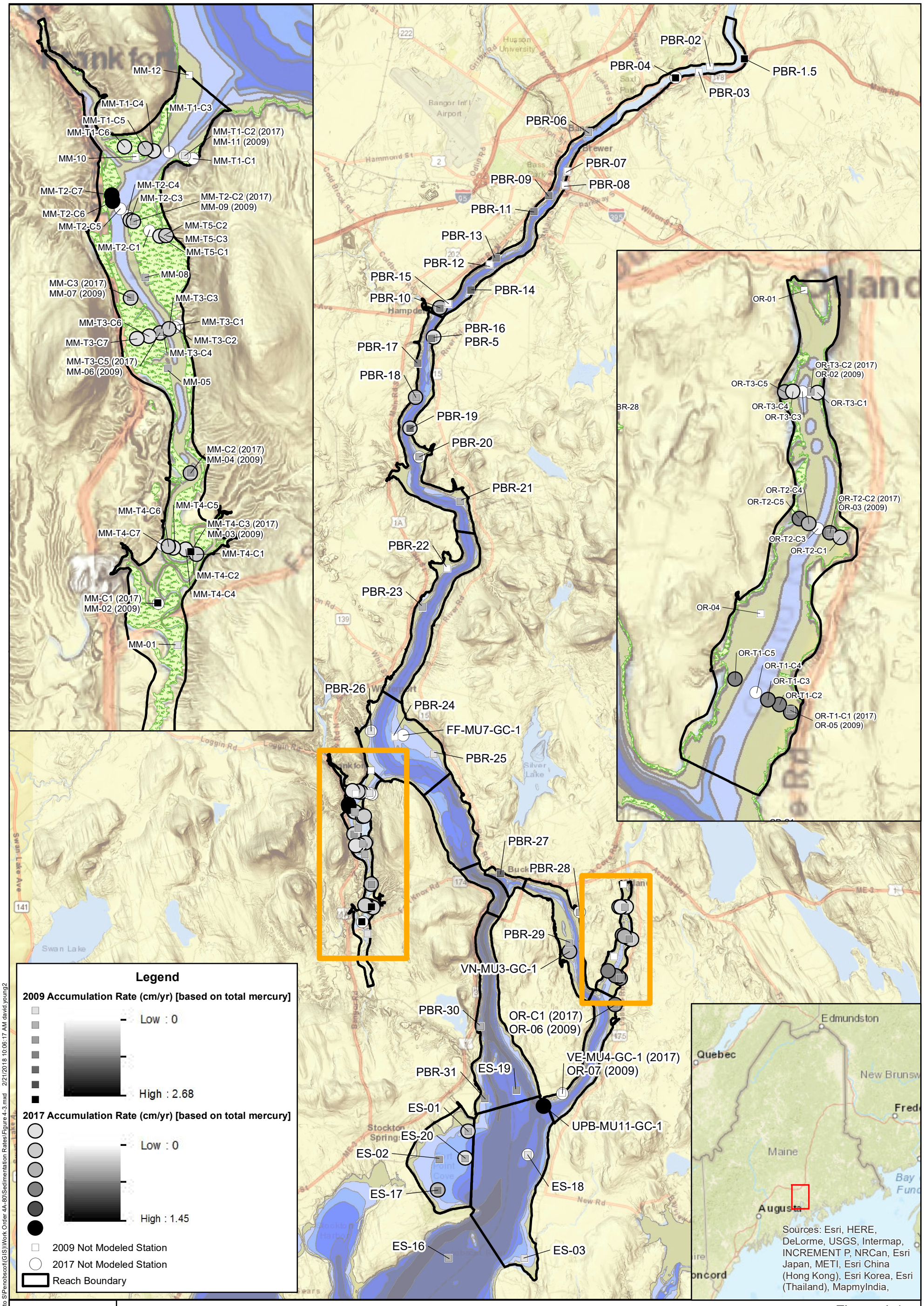

Legend

2009 Accumulation Rate (cm/yr) [based on total mercury]

Low : 0

High : 2.68

2017 Accumulation Rate (cm/yr) [based on total mercury]

Low : 0

High : 1.45

2009 Not Modeled Station

2017 Not Modeled Station

Reach Boundary

Bathymetry

Water Depth feet (MLLW)

0 6 12 18 30 60 120 600

Marsh Platform

N

0 5,000 10,000 20,000 Feet

0 2.5 5 10 Kilometers

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Figure 4-1

Sediment Accumulation Rates

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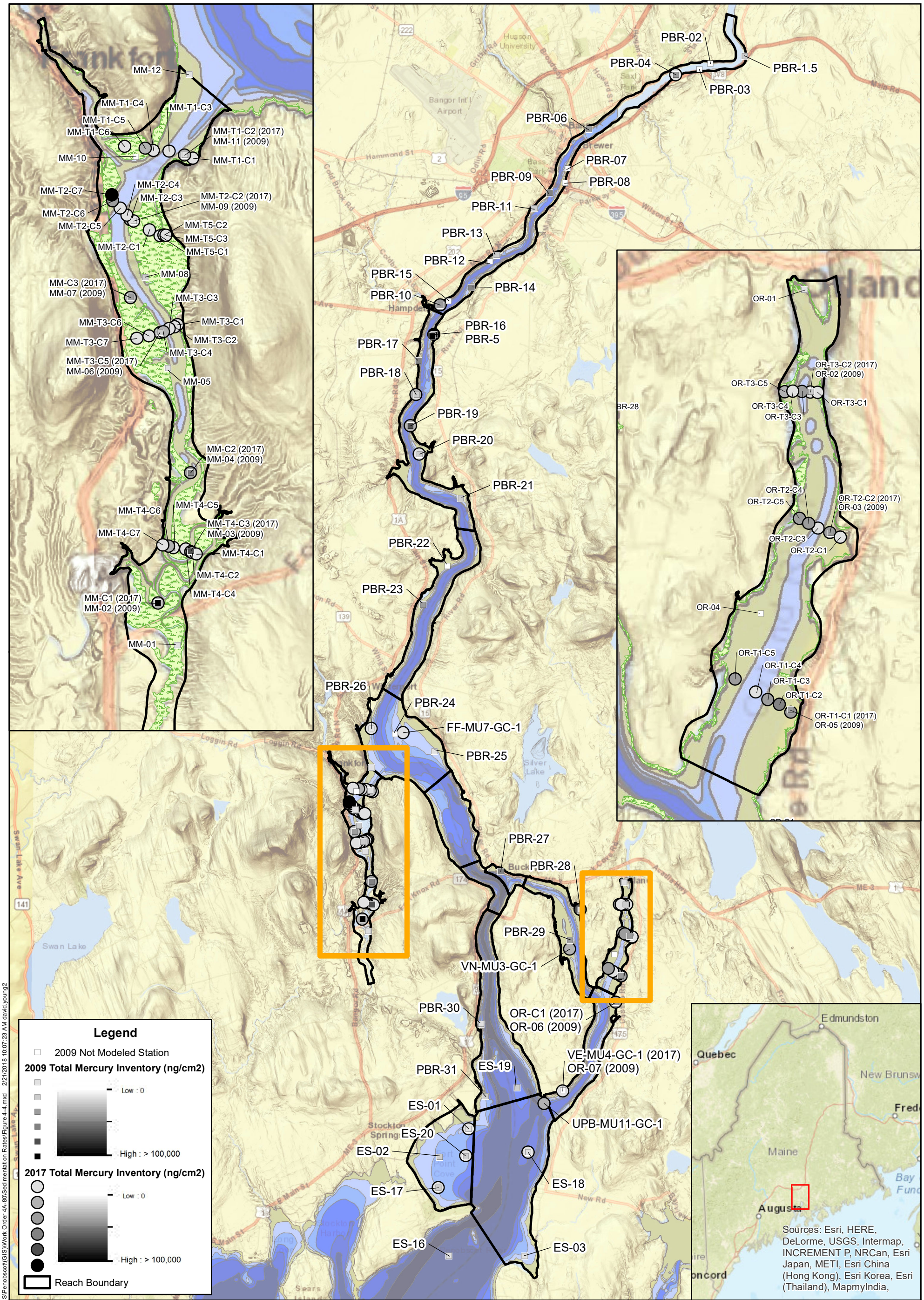

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Figure 4-13
Total Mercury Inventory

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