

November 21, 2017

Special Master Susan Calkins  
2112 Promontory Point Lane  
Gold River, CA 95670



**Subject: Monthly Status Report 22 for October 2017  
Penobscot River Estuary Phase III - Engineering Study**

Dear Ms. Calkins:

Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler) is pleased to submit this monthly Status Report for the Penobscot River Estuary Phase III - Engineering Study. This report covers the period from October 1, 2017 through October 31, 2017. A cash flow projection through June 2018 is also attached.

**ACTIVITIES AND EVENTS DURING THE REPORTING PERIOD**

Task 2A - Technologies and Remedial Approaches for Consideration

- *Work Order 2A-040A - Permitting Support for Alternatives Evaluation*
  - Received response from August 27, 2017 to Maine State Historic Preservation Office (SHPO) requesting locations of historical significance within the Penobscot River Estuary; SHPO's response included 10 maps showing archaeological site location information, and identification of three potential areas of conflict between proposed Active Remedy areas and significant archaeological sites
- *Work Order 2A-051 - Leachability/Toxicity Testing*
  - Monitored subcontractors performing Leachability/Toxicity testing
- *Work Order 2A-053 - Dewatering / Flocculant Testing / Water Treatment*
  - Monitored subcontractors performing the Dewatering / Flocculant Testing / Water Treatment testing
- *Work Order 2A-054 - Sediment Erosion and Transport Testing*
  - Corresponded with US Army's Environmental Research and Development Center regarding their preparation of a report summarizing the Sedflume testing conducted in late September 2017
- *Work Order 2A-055 – Amendment Test Plot Re-sampling*
  - Corresponded with Dr. Cindy Gilmour of the Smithsonian Environmental Research Center regarding the status of her sample analyses associated with the Amendment Test Plot Re-sampling
- *Work Order 2A-080 – Alternatives Evaluation Report*
  - Development of Alternatives Analysis Report continued in October 2017
- *Work Order 2A-100 – Hydrodynamic Evaluation*
  - Amec Foster Wheeler continued development of the 2-D hydrodynamic model
  - Corresponded with USGS regarding the status of their data report on ADCP, CTD, and tide gauge data

**Correspondence:**  
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Tasks 3/3A - Risk Reducti006Fn Evaluation

- *Work Order 3A-010 - BAFs/BSAFs, Biota Trending Analysis:*
  - Began initial evaluation of the impact of 2017 sediment data (for the data received thus far) on BSAFs
- *Work Order 3A-020 – Baseline Risk Assessments:*
  - Work on baseline risk assessments continued September 2017

Tasks 4/4A - Potential Data Needs and Additional Field Work

- *Work Order 004 - 2016 Sediment and Water Quality Monitoring:*
  - No further activities are anticipated under this work order
- *Work Order 4A-010 - Analytical Methods Evaluation and OC Study (formerly Work Order 012):*
  - Responded to comments from the Litigants on the Analytical Methods Evaluation Technical Memorandum
  - Continued development and refinement of the Conceptual Site Model for the project
- *Work Order 4A-020 - Analyses/Evaluation of WO 003A Samples:*
  - Responded to comments from the Litigants on the 2016 Mobile Sediment Report
- *Work Order 4A-030 – 2017 Marsh Platform Sediment Characterization:*
  - Analyses of WO 4A-030 samples completed; data validation initiated
- *Work Order 4A-040 – 2017 Sediment and Water Quality Monitoring:*
  - Analyses of WO 4A-040 samples completed; data validation continued
  - Periodic downloads of the turbidity meter at Eddington were made throughout the period; the meter functioned properly in October 2017
- *Work Order 4A-050 – 2017 Biota Monitoring:*
  - Analyses of 2017 fish and shellfish samples continued
  - Validation of bird, insect, and spider sample analytical data continued
- *Work Order 4A-060 – 2017 Additional Mobile Pool Characterization:*
  - Compilation of field data records and development of the Draft 2017 Additional Mobile Sediment Characterization Technical Memorandum was initiated
- *Work Order 4A-070 – 2017 Intertidal and Subtidal Sediment Characterization:*
  - Processing of intertidal and subtidal sediment cores was initiated for samples collected in September 2017
- *Work Order 4A-080 – Thin Interval Coring*
  - Thin interval sediment core collection under this work order was completed in early October 2017
  - Sediment cores were transported to Amec Foster Wheeler's Durham, NC office and Dr. Yeager's University of Kentucky laboratory for processing

Tasks 5A – Phase III Engineering Study Report

- *Work Order 5A-010 - Phase III Engineering Study Report*
  - No activities were conducted under this work order during the reporting period

### Tasks 6A – Meetings/Communications

- *Work Orders 6A-010/6A-020 - Meetings/Reporting:*
  - October 4, 2017: Special Master, Litigants, and Amec Foster Wheeler attended a boat tour of the Penobscot River Estuary from Hamden to Fort Point Cove
  - October 5, 2017: Special Master, Litigants, and Amec Foster Wheeler attended the Quarterly Project Status Meeting at the Residence Inn in Bangor, Maine
  - October 24, 2017: Amec Foster Wheeler submitted meeting notes from the October 5, 2017 Quarterly Project Status Meeting to the Special Master/Litigants
  - October 28, 2017: Amec Foster Wheeler submitted the Monthly Report and Invoice #J02207356 for the month of September 2017 to the Special Master/Litigants

### Task 7/7A – Community Involvement

- *Work Orders 006/7A-010 - Community Involvement:*
  - Updated the website document repository to include the most recent monthly reports and approved work orders
  - Continued development of the Draft Community Involvement Plan

## **PROPOSED ACTIVITIES FOR THE FOLLOWING PERIOD**

### Tasks 2/2A - Technologies and Remedial Approaches for Consideration

- *Work Order 2A-040A - Permitting Support for Alternatives Evaluation*
  - Continue permitting support for Alternatives Evaluation
- *Work Order 2A-051 - Leachability/Toxicity Testing*
  - Monitor progress of subcontractor leachability and toxicity testing
- *Work Order 2A-053 - Dewatering / Flocculant Testing / Water Treatment*
  - Monitor progress of subcontractor dewatering, flocculant, and water treatment testing
- *Work Order 2A-054 - Sediment Erosion and Transport Testing*
  - ERDC to submit report to Amec Foster Wheeler documenting the Sedflume testing completed in September 2017
- *Work Order 2A-055 – Amendment Test Plot Re-sampling*
  - Dr. Cindy Gilmour will continue to analyze sediment and water samples collected as part of the Amendment Plot Re-sampling Study conducted in September 2017, and initiate write-up of the report of findings
- *Work Order 2A-080 - Alternatives Evaluation*
  - Continue development of remedial alternatives
- *Work Order 2A-100 - Hydrodynamic Evaluation*
  - Continue calibration of 2-D hydrodynamic model
  - Monitor progress of USGS data reduction of ADCP and CTD data collected in September 2017

### Task 3 - Risk Reduction Evaluation

- *Work Order 3A-010 – BAFs/BSAFs, Biota Trend Analyses:*
  - Continue evaluation of the impact of 2017 sediment on BSAFs

- *Work Order 3A-020 – Baseline Risk Assessments:*
  - Continue development of baseline risk assessments

#### Task 4 - Potential Data Needs and Additional Field Work

- *Work Order 4A-010 - Analytical Methods Evaluation and OC Study (formerly Work Order 012):*
  - Issue the revised 2016 Analytical Methods Evaluation Technical Memorandum following response to Litigant comments
  - Continue to refine and update the CSM
- *Work Order 4A-020 - Analyses/Evaluation of WO 003A Samples:*
  - Issue the revised 2016 Mobile Sediment Characterization Report following response to Litigant comments
- *Work Order 4A-030 - Additional Marsh Platform Characterization:*
  - Initiate preparation of the Draft Marsh Platform Characterization Technical Memorandum
- *Work Order 4A-040 - 2017 Sediment & Water Quality Monitoring:*
  - Initiate preparation of the Draft 2017 Sediment & Water Quality Monitoring Report
- *Work Order 4A-050 - 2017 Biota Monitoring*
  - Complete data validation of fish/shellfish sample data
  - Initiate preparation of the Draft 2017 Biota Monitoring Report
- *Work Order 4A-060 - Additional Mobile Pool Characterization*
  - Continue development of the Draft 2017 Additional Mobile Sediment Characterization Technical Memorandum
- *Work Order 4A-070 - Additional Intertidal and Subtidal Sediment Characterization*
  - Complete processing of sediment cores in Amec Foster Wheeler Durham, NC laboratory and submit samples to analytical laboratory for analyses
  - Monitor progress of analytical laboratory
- *Work Order 4A-080 - Sediment Geochronology Cores*
  - Complete collection of sediment core PBR-16 in Southern Cove
  - Complete processing of sediment cores in Amec Foster Wheeler Durham, NC laboratory and submit samples to analytical laboratory for analyses
  - Continue coordination with universities and laboratories regarding core sectioning and analyses

#### Task 6A – Meetings/Communications

- *Work Orders 6A-010/6A-020 - Meetings/Reporting:*
  - Prepare and submit monthly report, cash flow projection, and updated project schedule for October 2017 to the Special Master/Litigants
  - Prepare for and attend Monthly Project Status Call on November 1, 2017
  - Submit meeting minutes for November 1, 2017 Monthly Project Status Call

Task 7/7A – Community Involvement

- *Work Orders 006/7A-010 - Community Involvement:*
  - Continue preparation of Draft Community Involvement Plan
  - Monitor incoming messages from interested parties regarding the website content
  - Follow-up by phone or email with interested parties

**FUTURE MEETINGS AND CONFERENCE CALLS**

- The next Monthly Project Status Call will be held from 3:00 – 5:00 PM (Eastern time) on Wednesday, December 6, 2017.

**CASH FLOW PROJECTION**

Please refer to Attachment A for the Amec Foster Wheeler financial status summary and cash flow projection through June 30, 2018.

**PROJECT DELIVERABLES SCHEDULE**

The schedule below provides an overview of project deliverable dates:

Work Order	Deliverable	Draft to SM/Litigants	Comments Due from Litigants	Final to SM/Litigants
004	2016 Sediment and Surface Water Monitoring Report	3/28/2017		9/12/2017
005	2016 Biota Monitoring Report	5/28/2017		8/30/2017
3A-010	Technical Memorandum - BSAFs	7/12/2017		9/15/2017
4A-020	2016 Mobile Sediment Characterization Report	7/12/2017	N/A	N/A
4A-010	Technical Memorandum - Analytical Methods Evaluation	9/15/2017	N/A	N/A
4A-030	Technical Memorandum - 2017 Marsh Platform Characterization	12/8/2017	1/26/2018	N/A
4A-040	2017 Sediment and Surface Water Monitoring Report	12/13/2017	1/26/2018	3/13/2018
7A-010	Community Involvement Plan	12/15/2017	2/2/2018	3/15/2018
2A-100	Hydrodynamic Model Report	12/22/2017	2/9/2018	N/A
4A-060	Technical Memorandum - 2017 Additional Mobile Sediment Characterization	1/11/2018	3/2/2018	N/A
4A-070	Technical Memorandum - 2017 Intertidal & Subtidal Sediment Characterization	2/2/2018	3/21/2018	N/A
3A-020	Risk Assessment Report	2/9/2018	3/30/2018	5/10/2018
4A-050	2017 Biota Monitoring Report (w/out Black Duck data)	2/16/2018	4/5/2018	5/17/2018
4A-080	Geochron Core Report	2/28/2018	4/13/2018	N/A
2A-080	Alternatives Evaluation Report	3/15/2018	5/3/2018	6/13/2018
3A-020	Risk Reduction Report	3/15/2018	5/3/2018	6/13/2018
5A-010	Phase III Engineering Study Report	3/31/2018	5/15/2018	6/29/2018

N/A - not applicable; comments from SM/Litigants will be incorporated in Final version to be included as an Appendix to the Alternatives Evaluation Report  
*Shaded dates indicate actual completion dates*

If you have any questions regarding the information contained in this report, please call me at 207-651-0315.

Sincerely,



Nelson Walter, PE, LSP, LEP, PMP  
 Principal Project Manager

**Attachments**

Attachment A - Cash Flow Projection

cc: Mitchell Bernard (NRDC) Patricia Duft (Mallinckrodt)  
Jared Thompson (NRDC) Jeffrey Talbert (Preti Flaherty)  
Project File (3616166052)