

December 21, 2017

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



**Subject: Monthly Status Report 23 for November 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 November 1, 2017 through November 30, 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*
 - Developed summary of permits table for use in AER
- *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*
 - Received USGS ASCP, CTD, and tide gauge data
 - Amec Foster Wheeler continued development of the 2-D hydrodynamic model

Tasks 3/3A - Risk Reduction Evaluation

- *Work Order 3A-010 - BAFs/BSAFs, Biota Trending Analysis:*
 - Continued evaluation of the impact of 2017 sediment data (for the data received thus far) on BSAFs

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- *Work Order 3A-020 – Baseline Risk Assessments:*
 - Work on baseline risk assessments continued in November 2017

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

- *Work Order 4A-010 - Analytical Methods Evaluation and OC Study (formerly Work Order 012):*
 - November 10, 2017: Issued responses to comments from NRDC on the Analytical Methods Comparison Technical Memorandum
 - Continued development and refinement of the Conceptual Site Model for the project
- *Work Order 4A-020 - Analyses/Evaluation of WO 003A Samples:*
 - November 10, 2017: Responses to comments from the Litigants on the 2016 Mobile Sediment Report, as well as the revised 2016 Mobile Sediment Report, were submitted to the Special Master/Litigants
- *Work Order 4A-030 – 2017 Marsh Platform Sediment Characterization:*
 - Data validation completed, and Technical Memorandum development initiated
- *Work Order 4A-040 – 2017 Sediment and Water Quality Monitoring:*
 - Data validation completed, and 2017 Sediment and Water Quality Monitoring Report development initiated
- *Work Order 4A-050 – 2017 Biota Monitoring:*
 - Analyses of 2017 fish and shellfish samples completed
 - Validation of all sample analytical data completed
 - 2017 Biota Monitoring Report development initiated
- *Work Order 4A-060 – 2017 Additional Mobile Pool Characterization:*
 - Development of the Draft 2017 Additional Mobile Sediment Characterization Technical Memorandum continued
- *Work Order 4A-070 – 2017 Intertidal and Subtidal Sediment Characterization:*
 - Processing of intertidal and subtidal sediment cores continued for samples collected in September 2017
 - Analyses of sediment samples collected under the work order was continued
- *Work Order 4A-080 – Thin-Interval Core Sampling*
 - One thin-interval sediment core PBR-16 was collected in the marsh platform adjacent to Southern Cove in November 2017
 - Processing of sediment cores continued at Dr. Yeager's University of Kentucky laboratory, Texas A&M University at Galveston, TX, and Amec Foster Wheeler's Raleigh-Durham, NC laboratory

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:*
 - November 1, 2017: Special Master, Litigants, and Amec Foster Wheeler attended a Monthly Project Status Call
 - November 6, 2017: Submitted meeting minutes from the November 1, 2017 Monthly Project Status Call to the Special Master/Litigants
 - November 22, 2017: Amec Foster Wheeler submitted the Monthly Report and Invoice #J02207445 for the month of October 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
 - Receive and process data from the leachability and toxicity testing
- *Work Order 2A-053 - Dewatering / Flocculant Testing / Water Treatment*
 - Monitor progress of subcontractor dewatering, flocculant, and water treatment testing
 - Receive and process data from the dewatering, flocculant, and water treatment testing
- *Work Order 2A-054 - Sediment Erosion and Transport Testing*
 - Review ERDC report on Sedflume testing results completed in September 2017
- *Work Order 2A-055 – Amendment Test Plot Re-sampling*
 - Dr. Cindy Gilmour will continue to assess sediment and water analytical results as part of the Amendment Plot Re-sampling Study conducted in September 2017, and continue write-up of the report of findings
- *Work Order 2A-080 - Alternatives Evaluation*
 - Continue development of remedial alternatives
- *Work Order 2A-100 - Hydrodynamic Evaluation*
 - Submit Draft Hydrodynamic Simulation Report to Special Master/Litigants in mid-December 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:*
 - No further activity is anticipated under this work order
- *Work Order 4A-030 - Additional Marsh Platform Characterization:*
 - Submit Draft Marsh Platform Characterization Technical Memorandum to Special Master/Litigants December 8, 2017
- *Work Order 4A-040 - 2017 Sediment & Water Quality Monitoring:*
 - Submit Draft 2017 Sediment & Water Quality Monitoring Report to Special Master/Litigants December 13, 2017
- *Work Order 4A-050 - 2017 Biota Monitoring*
 - Continue 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 Report
- *Work Order 4A-070 - Additional Intertidal and Subtidal Sediment Characterization*
 - Complete analysis of all sediment samples, and continue data validation
 - Prepare Draft 2017 Intertidal and Subtidal Sediment Characterization Report
- *Work Order 4A-080 - Thin-Interval Core Sampling*
 - Complete laboratory analyses, and conduct data validation
 - Continue coordination with universities regarding core analyses and reporting of results
 - Initiate preparation of 2017 Draft Thin-Interval Core Sampling Report

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 November 2017 to the Special Master/Litigants
 - Prepare for and attend Monthly Project Status Call on December 14, 2017
 - Submit meeting minutes for December 14, 2017 Monthly Project Status Call on December 14, 2017.

Task 7/7A – Community Involvement

- *Work Orders 006/7A-010 - Community Involvement:*
 - Submit Draft Community Involvement Plan to Special Master/Litigants December 15, 2017
 - Following approval from Special Master/Litigants, post approved reports to website

- Monitor incoming messages from interested parties regarding the website content
- Follow-up by phone or email with interested parties

FUTURE MEETINGS AND CONFERENCE CALLS

- January 16, 2017, 8A-5P Quarterly Project Status Meeting in Boston, MA

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	12/11/2017	1/26/2018	N/A
4A-040	2017 Sediment and Surface Water Monitoring Report	12/15/2017	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	Thin-Interval Sampling (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

Monthly Status Report 23 for November 2017
Penobscot River Estuary Phase III - Engineering Study

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