



<b>Work Order</b>	<b>2A-053</b> <b><i>Dewatering Bench-Scale Testing</i></b>
MALLINCKRODT US LLC	<b>Project Name:</b> Penobscot River Phase III Engineering Study <b>Project Number:</b> 3616166052
<b>This Work Order ("Work Order"), when approved and signed by both parties, is issued under and amends that certain Agreement between the parties executed February 2, 2016 ("Agreement"). Except as expressly modified herein, all terms and conditions of the Agreement remain in full force and effect.</b>	
<b>SCOPE OF SERVICES</b> Amec Foster Wheeler shall perform the following services ("Services"): <input type="checkbox"/> As set forth in the attached document entitled (Insert document description here). <input checked="" type="checkbox"/> As described as follows: Amec Foster Wheeler will perform the following Services related to dewatering bench-scale testing that will be performed as a treatability study under this Work Order (WO 2A-053). The elements of this Work Order consist of sample collection, bench-scale testing, analytical testing, and reporting on the results of the testing. Amec Foster Wheeler will subcontract with Mineral Processing Services, Inc. to perform the testing. The Dewatering Bench-Scale Test Scope of Work describes the bench-scale dewatering testing of sediments.	
<b>BACKGROUND AND PURPOSE</b> Dewatering bench-scale testing is one of several treatability studies and constructability evaluations that are being conducted to collect site-specific data that will be used to provide additional information for the evaluation of remedial alternatives. The overall objectives of the dewatering bench-scale test are to collect and analyze data to: <ul style="list-style-type: none"><li>• Evaluate dewatering of sediment to support evaluation of dredging as a component of a full-scale remedial alternative(s).</li><li>• Obtain data to estimate the volume of dewatered sediments, and assess whether the sediments may require stabilization prior to disposal.</li><li>• Evaluate whether the wood waste would require an alternative dewatering process (e.g., addition of flocculants and/or physical removal).</li><li>• Compare dewatering fluids analytical results to potential discharge standards to assess the need for treatment of effluent water prior to discharge.</li></ul>	
<b>WORK ORDER TASKS</b> <ul style="list-style-type: none"><li>• <u>Task 1 – Sample Collection</u>: Collection of sediment and river water samples.</li><li>• <u>Task 2 – Bench-Scale Testing</u>: Bench-scale testing and sampling procedures.</li><li>• <u>Task 3 – Analytical Testing</u>: Analytical methods and data evaluation procedures.</li><li>• <u>Task 4 – Reporting</u>: Reporting procedures for presentation of the results of the testing.</li></ul>	
<b>ASSUMPTIONS</b> A Draft technical memorandum summarizing the results of the dewatering testing will be prepared for review by the Court/Litigants. The Final version will be included as an appendix to the Alternatives Evaluation Report.	
<b>SCHEDULE</b> The sample collection field work will be conducted by Amec Foster Wheeler in August 2017. The dewatering bench-scale testing will be performed during September 2017. Amec Foster Wheeler will	



present the testing results in a Draft Technical Memorandum that will be submitted to the Court/Litigants for review in October, 2017.

**COMPENSATION**

**ATTACHMENTS**

None.

By their signatures below, the parties acknowledge that they shall be bound by the terms of this Work Order, including the attachments hereto, and that the undersigned are authorized to enter into this Work Order.

**MALLINCKRODT US LLC**

Date: 7/20/17  
By: *Patricia H. Duff*  
(Signature)  
Name: Patricia H. Duff  
(Printed Name)  
Title: Vice President

**Amec Foster Wheeler Environment & Infrastructure, Inc.:**

Date: July 19, 2017  
By: *Nelson Walter*  
(Signature)  
Name: Nelson Walter  
(Printed Name)  
Title: Vice President

7/20/2017 Approval.

*Dawn Collier*  
Special Master