

<b>Work Order</b>	<b>2A-031</b>  <b><i>Leachability and Toxicity Bench-Scale Testing</i></b>
MALLINCKRODT US LLC	<b>Project Name:</b> Penobscot River Phase III Engineering Study <b>Project Number:</b> 3616166052
<p><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></p>	
<p><b>SCOPE OF SERVICES</b></p> <p>Amec Foster Wheeler shall perform the following services (“Services”):</p> <p> <input type="checkbox"/> As set forth in the attached document entitled (Insert document description here).  <input checked="" type="checkbox"/> As described as follows:         </p> <p>Amec Foster Wheeler will perform the following Services related to leachability and toxicity bench-scale testing that will be performed as part of treatability studies under this Work Order (WO 2A-031). The elements of this Work Order consist of sample collection, analytical testing, and reporting on the results of the testing. Amec Foster Wheeler will subcontract with EnviroSystems, Inc. (ESI) to perform the testing. The Leachability and Toxicity Scope of Work describes the leachability testing of sediments collected from the river and toxicity testing of soils collected from Mendall Marsh.</p> <p><b>BACKGROUND AND PURPOSE</b></p> <p>Leachability and toxicity 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.</p> <p>The overall objectives of the leachability and toxicity bench-scale tests are to collect and analyze data to assess the following:</p> <ul style="list-style-type: none"> <li>• Potential leachability of mercury from wood waste into the water column.</li> <li>• Potential toxic effects of amendments on test organisms.</li> <li>• Changes in methyl mercury concentrations in the test organisms resulting from the addition of amendments.</li> </ul> <p><b>WORK ORDER TASKS</b></p> <p>The tasks below are described in the Amendment Test Plot Resampling Work Plan (July 2017):</p> <ul style="list-style-type: none"> <li>• <u>Task 1 – Sample Collection</u>: Sediment and soil sample collection procedures.</li> <li>• <u>Task 2 – Leachability and Toxicity Bench-Scale Testing</u>: Sediment and soil testing procedures.</li> <li>• <u>Task 3 – Analytical Testing</u>: Analytical methods and data evaluation procedures.</li> <li>• <u>Task 4 – Reporting</u>: Data evaluation result reporting procedures.</li> </ul> <p><b>SCHEDULE</b></p> <p>The sample collection field work will be conducted by Amec Foster Wheeler the week of August 21, 2017, and the testing will be performed by ESI the week of August 28, 2017.</p> <p><b>ASSUMPTIONS</b></p> <p>Amec Foster Wheeler will present the results of the testing in a Draft Technical Memorandum that will be submitted to the Court/Litigants for review on October 15, 2017. Final version will be included as an appendix to the Alternatives Evaluation Report.</p>	



**COMPENSATION**

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. Duft*  
(Signature)

Name: Patricia H. Duft  
(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 Approved. *Juan Celis*  
Special Master