

Memorandum



TO: Darrell Moore, CENAE

cc: K.C. Mitkevicius, CENAE
Dean Tagliaferro, USEPA
Susan Svirsky, USEPA

FROM: Joel Lindsay

DATE: May 18, 2007

A handwritten signature in blue ink, appearing to read "J. Lindsay".

PROJECT: Pittsfield SSERC – TO5

W.O. NO.: 20125.257.103

SUBJECT: 1.5 Mile Removal Action
Work Plan Addendum – Post-Remediation Sediment Sampling
DCN GE-051807 ADOB

This memorandum has been prepared to serve as a Work Plan Addendum for sampling and analysis of sediments in the 1.5 Mile Reach of the Housatonic River in Pittsfield. In general, sediment samples are to be obtained at three locations on every fourth transect from the original sampling plan for the EECA (intervals of 200 feet), from Transect 66 (Lyman Street) to Transect 210 (confluence of East and West Branches). Based on this frequency, 111 samples will be obtained at a total of 37 transects. The purpose of these activities is to obtain information on PCB concentrations and other physical characteristics of the sediment that has been deposited in the 1.5 Mile Reach since the completion of remediation activities.

This activity is being coordinated with GE's 5-year post-remediation sampling effort in the Upper ½ Mile Reach. This Work Plan is an addendum to the Supplemental Investigation Work Plan for the EE/CA Reach (07-0032). This Work Plan Addendum includes descriptions of the following:

- Objectives
- Rationale for selection of sampling locations
- Field sampling procedures and description
- Laboratory analytical procedures

The activities described in this plan will be conducted in accordance with project-wide and area specific planning documents. These planning documents include the following:

- Project Field Sampling Plan (00-0566)
- Project Quality Assurance Project Plan and Addendum (QAPP) (00-0305)
- Project Health and Safety Plan (HASP) (00-0313)
- Site Specific Health and Safety Plan (00-0475)

Objectives

The primary objective of the proposed sampling is to assess PCB concentrations and other physical characteristics of deposited sediments since completion of remediation activities in the 1.5 Mile Reach, extending from the Lyman Street Bridge to the confluence of the East and West Branches.

Field Sampling and Analytical Procedures

Sediment sampling will be conducted at pre-determined locations as described below and in the attached Figure. Sampling protocols will be followed in accordance with the WESTON Field Sampling Plan (00-0566) for sediment sampling (SS4).

Sediment samples will be collected at 200 foot intervals (every fourth transect) along the entire 1.5 Mile Reach, from the center of the channel and right and left sides. These sampling locations should be as close to those from which samples were collected prior to the removal action as is feasible. A total of 37 transects will be sampled, from Transect 66 to Transect 210.

Sediment samples will be collected from the 0 to 6 inch surface interval. Sediment samples should be representative of fine grain sediment (i.e. sands or silts and not gravel). If 6 inches of sediment is not present overlying the riprap, then 1) a nearby area (within 10 feet) with adequate sediment depth will be sampled, or failing the location of such an area, 2) an adequate volume to meet analytical requirements will be collected from the area of the original sampling location if possible. If a sufficient volume of sediment can not be obtained, no sample will be collected and this will be documented by Weston personnel. Average sediment depth at each sample location will be noted and reported. Samples to be submitted for grain size analysis will be collected at every third transect designated for collection of PCB and TOC samples.

Each sediment sample will be analyzed in accordance with methods approved in the Weston QAPP for total PCBs and Total Organic Carbon. Grain size will be analyzed on all of the samples in every third transect that is sampled.

Proposed sample transects will be staked out by a licensed survey crew prior to commencement of sampling. The actual sample locations will be noted and surveyed at the time of sampling by Weston personnel using a Trimble Pathfinder ProXRS GPS Unit. Sampling personnel will check the GPS location of the actual sampling location in the field to ensure that samples are collected at or within 10 feet of the transects.

All soil samples will be analyzed at a fixed, off-site laboratory approved by CENAE. QA/QC samples will be obtained in accordance with the requirements outlined in the project QAPP and

Addendum (00-0305). Weston will conduct data management and data validation of sample analyses in accordance with the procedures outlined in Section 14 of the project QAPP. All analyses will meet the Data Verification, Evaluation and Validation Requirements as outlined in Section 14 of the project QAPP. Soil and sediment matrices will meet Tier II validation, in accordance with Laboratory Data Validation Functional Guidelines for Evaluating Environmental Analyses, as outlined in Table 14-3 of the project QAPP. The off-site laboratory is required to achieve a 21-day Turn-Around-Time for reporting sample results and the reporting limit for PCB/Aroclor analysis of 0.02 ppm for each individual Aroclor.

Weston will prepare a summary report that includes tabulated analytical data and a figure showing sample locations for review by CENAE and USEPA.

Schedule

Sampling will be initiated in late May 2007. The sampling is expected to be completed in approximately 15 work days. A draft report, with validated data, will be submitted approximately 45 days after sampling is completed. A final report will follow.

Attachment: Post-Remediation Sediment Sampling Locations



WESTON SOLUTIONS, INC.

10 LYMAN STREET
PITTSFIELD, MA

PROJECT DESCRIPTION

DRAWING TITLE

**EAST BRANCH
HOUSATONIC RIVER**

**POST-REMEDIATION
SEDIMENT SAMPLING
TRANSECTS**

REV.	DESCRIPTION	DR'N CK'D.	DATE
A	ISSUED FOR COMMENT	JR	5-17-07
B	ADDED PROPERTY LINES	JR	5-18-07



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Dalton, MA 01226
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CAD CODE:	TRANSECTSSKI.DWG
DRAWING NUMBER	SRV-758-SK2
REV.	B
DRAWN BY	JR
DATE DRAWN	5-17-07
SCALE	1"=400'
AP'D BY	