

125 Broadway Avenue
Oak Ridge, Tennessee 37830 U.S.A.
1.865.220.4800 Fax 1.865.220.4848

November 22, 2005

Attn: CELRN-EC-R-M (Linda Ingram)
U.S. Army Corps of Engineers
Nashville District
110 Ninth Ave. South, Rm. 682 Annex
Nashville, TN 37203

Subject: SAP Addendum for Additional Delineation Sampling, Reservoir No. 2 Burning Ground, Plum Brook Ordnance Works

Dear Linda,

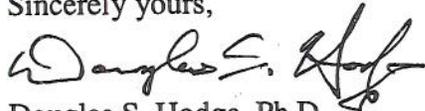
Enclosed find three (4) copies of the SAP Addendum Letter for the additional soil sampling to be performed at Reservoir No. 2 Burning Ground on 05 December 2005.

This letter will satisfy the planning requirements for the proposed upcoming sampling. Please provide review comments to my attention by 2 December 2005. All other reviewers are instructed to submit comments through CELRN.

The field sampling crew will be mobilizing to the site on Sunday 04 December 2005. Therefore, it is vital that comments and approval be obtained by 02 December 2005.

If you have any questions regarding this submittal, please contact me at 865-220-4874 or doug.hodge@jacobs.com.

Sincerely yours,


Douglas S. Hodge, Ph.D.

Attachments

Cc: Rick Meadows-CELRH (3 copies)
Ron Nabors-OEPA (2 copies)
Laurie Moore-OEPA (1 copy)
Robert Lallier-NASA (1 copy)
Michael Filips-CENWO-CX (1 copy)
Dennis Druck-USCHPPM (1 copy)
Mark Bohne-PBOW RAB (1 copy)

Addendum to the Site Specific Sampling Plan

Engineering Evaluation/Cost Analysis Reservoir No. 2 Burning Ground

Introduction

This addendum has been prepared to address the sampling strategy for additional surface soil samples at Reservoir No. 2 Burning Ground. Data collected during the May 2004 sampling event indicates contamination exceeding the PRGs is present in surface soil west of the burn area. As presented in the Interim Final Site Characterization Report, Figure 4-2, PCBs, lead, nitroaromatics, and PAHs are present at elevated levels. Additional data collected in April 2005 indicates the contamination has not been fully delineated to the north and south of this area, as shown in Figure 4-3 of the Interim Final Site Characterization Report.

Surface soil contamination directly north and south of the burn area was also identified during the May 2004 sampling event, however no additional sampling has been performed in these areas to define the extent of contamination. PAHs and nitroaromatics are elevated north of the burn area, while PAHs and PCBs are elevated south of the burn area.

The size and location of these contamination areas need to be defined in order to support the cost analysis and effectiveness evaluations for the various remedial alternatives to be developed for the EE/CA. Further surface soil sampling is proposed as presented below.

Scope and Objectives

Fifteen additional surface soil locations are proposed, Figure A-1. The proposed locations have been selected to provide further delineation for the contamination areas. The additional locations have been placed at least 25 feet from the prior sampling points.

Surface soil samples will be submitted to an off-site laboratory and analyzed for PCBs, TAL metals, nitroaromatics, and PAHs. This list represents those analytes which exceeded the PRGs. Analytical methods will be performed in accordance with the Site-Wide SAP, Site-Wide QAPP, Site-Specific SAP, and Site-Specific QAPP.

Sampling is scheduled for 05 December 2005 to be scheduled in conjunction with travel for the December team meeting and RAB.

Sampling Methods

One surface soil sample will be collected from 0 to 1 feet bgs at each of the fifteen proposed locations in accordance with the Site-Wide SAP. Samples will be collected with a stainless steel hand auger equipped with disposable stainless steel sleeves. Each sample will be homogenized in a glass bowl using a stainless steel spoon.

Decontamination of the hand auger will be performed between sample locations as specified in the Site-Wide SAP. Dedicated bowls and spoons will be used for each sample.

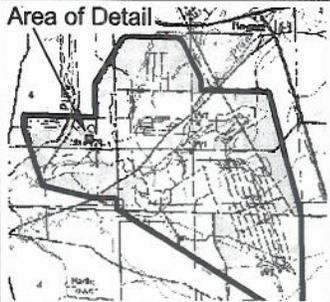
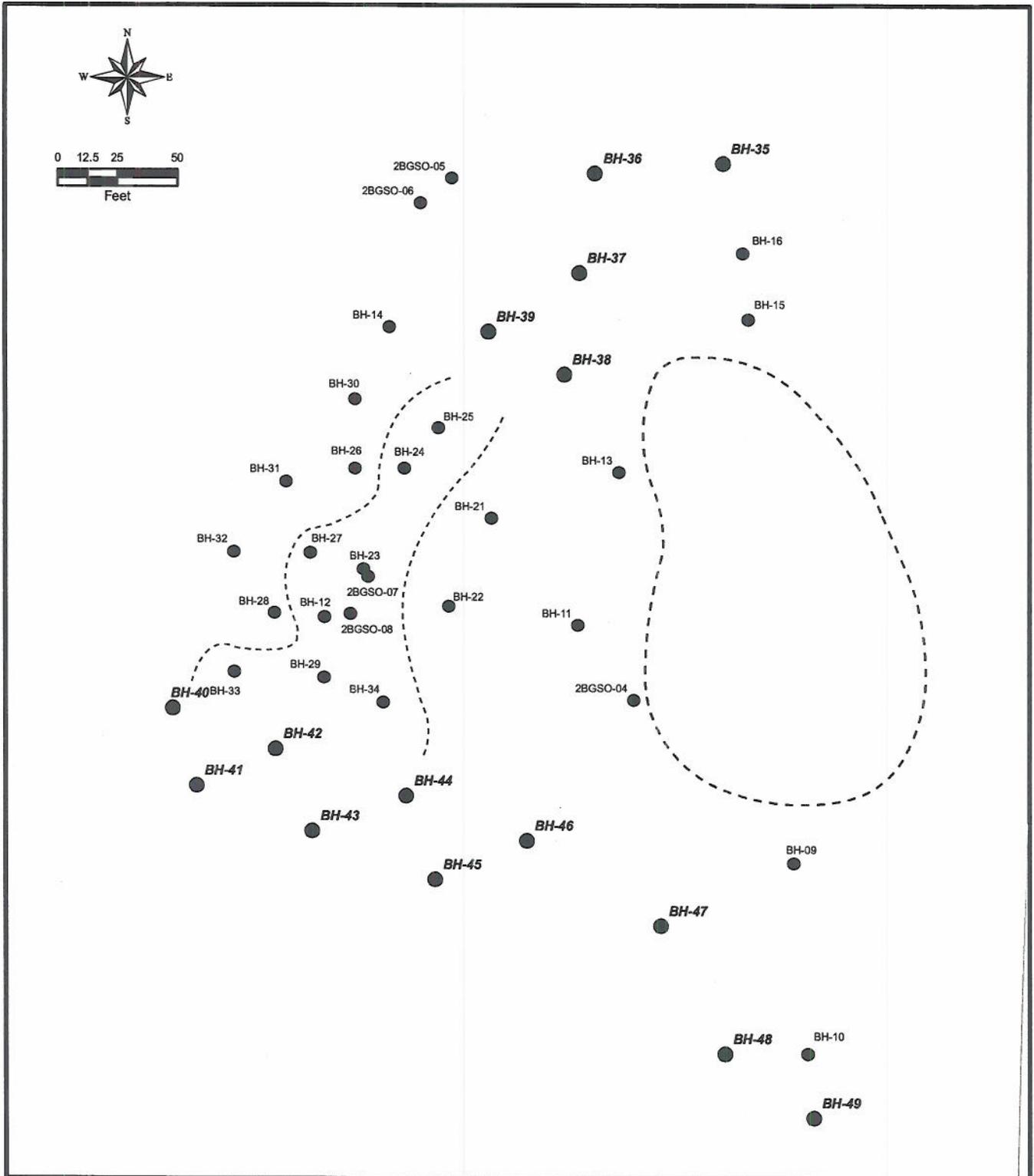
QA/QC samples will be collected in accordance with the Site-specific QAPP, to include field duplicates, matrix spike/matrix spike duplicates, and a QA sample to be submitted to a separate laboratory.

Sample handling, preservation, packing, and shipping will be in accordance with the Site-Specific QAPP.

Land surveying will be performed for each of the fifteen locations in accordance with the Site-Wide SAP.

Data Reporting

Analytical results will be used to update the figures and text discussion as presented in the Draft Site Characterization Report. An Interim Final Site Characterization Report will be submitted, which will address comments from the draft report and will include the additional soil data and associated conclusions.



Legend

- Proposed Surface Soil Samples — December 2005
- Surface Soil Sample Above PRG's
- Surface Soil Sample Below PRG's
- - - Boundary of Surface Soil Exceeding Region 9 PRG's
- - - Interpreted Burn Pit Boundary Based on Trenching Data



JE JACOBS

Delineation of Surface Soil Contamination At Reservoir 2 Burning Ground

Plum Brook Ordnance Works
Sandusky, Ohio

07/09/05 NZ GIS/Plumbrook/Projects/
Handcopy_Requests/
11_19_05_Soil_Sample_Additions/ArxMap/
Proposed_Samples_11_19_05.mxd

Figure A-1