

Base Realignment and Closure
Program Management Office West
1230 Columbia Street, Suite 1100
San Diego, California 92101

CONTRACT NO. N68711-98-D-5713
CTO No. 0084

**FINAL ADDENDUM 1
TO THE
FINAL SAMPLING AND ANALYSIS PLAN
(Field Sampling Plan and Quality Assurance Project Plan)**

May 18, 2006

**PCB HOT SPOT SOIL EXCAVATION SITE
PARCELS E AND E-2, HUNTERS POINT SHIPYARD
SAN FRANCISCO, CALIFORNIA**

DCN: FWSD-RAC-06-0922



TETRA TECH EC, INC.
1230 Columbia Street, Suite 750
San Diego, CA 92101

Mary Schneider

Mary Schneider
Quality Control Program Manager

5/18/06

Date

Narciso A. Ancog

Narciso A. Ancog
NAVFAC SW Quality Assurance Officer

5/18/2006

Date

FINAL
SAMPLING AND ANALYSIS PLAN
(FIELD SAMPLING PLAN AND QUALITY ASSURANCE
PROJECT PLAN) PCB HOT SPOT SOIL EXCAVATION SITE
PARCELS E AND E-2

IS APPENDIX A OF THE FINAL PROJECT WORK PLAN
PCB HOT SPOT SOIL EXCAVATION SITE PARCELS E AND E-2

DATED 10 NOVEMBER 2005

THIS RECORD IS ENTERED IN THE DATABASE AND FILED
AS

RECORD NO. AR_N00217_004137

1.0 INTRODUCTION

This Addendum to the Sampling and Analysis Plan (SAP) (*Final Sampling and Analysis Plan*, Revision 0, Hunters Point Shipyard, San Francisco, California, DCN: FWSD-RAC-05-1442 [Tetra Tech EC, Inc. (TtEC), 2005]) was prepared to include additional analyses to post-excavation samples collected from grids 88 and 89 at the polychlorinated biphenyls (PCB) Hot Spots excavation site. This addendum to the SAP was prepared on behalf of the Naval Facilities Engineering Command, Southwest (NAVFAC SW) by TtEC, under Remedial Action Contract (RAC) No. N68711-98-D-5713, Contract Task Order (CTO) No. 0084. This addendum complies with the requirements of revising the SAP when a scope or regulation change occurs during the course of the work in accordance with *Environmental Work Instruction (EWI) #2, EVR.2, Review, Approval, Revision, and Amendment of Sampling and Analysis Plans (SAPs)* (NAVFAC SW, 2006). This addendum to the SAP includes only changes to the sections of the SAP that require modification relevant to additional analyses. This addendum will be used in conjunction with the original SAP.

This addendum addresses the addition of analyses for post-excavation confirmation samples collected from grids 88 and 89 in the PCB Hot Spot excavation area. Analyses are being added as a result of TtEC uncovering drums during excavation activities in these two grids, and the drum contents were identified to contain total petroleum hydrocarbons (TPH), PCBs and pesticides. The U.S. Environmental Protection Agency (EPA) was concerned about potential leakage from the drums onto the soil beneath in these areas. Therefore, the EPA is requesting that volatile organic compound (VOC), semivolatile organic compound (SVOC), and pesticide analyses are added to the confirmation bottom samples collected from these grids. Samples collected from these grids will be from the excavation bottom of each grid. (Since these grids are in the middle of the excavation area, there will be no sidewalls present to sample.) Confirmation samples are currently only analyzed for TPH and PCBs per the original SAP. The data from these additional analyses will be considered during the Parcels E and E-2 Feasibility Study similarly to the additional data collected for the perimeter sidewall confirmation samples as described in the original SAP.

The following sections of the original SAP have been revised and are included in this addendum:

- Sections 4.3
- Section 6.3
- Section 8.1
- Section 14

4.0 SAMPLING STRATEGY

4.3 POST-EXCAVATION SAMPLING

Additional text to end of paragraph #1.

Samples collected in grids 88 and 89 will also be analyzed for VOCs, SVOCs, and pesticides. The sample locations are detailed in the original SAP. The data from these additional analyses will be considered during the Parcel E and E-2 Feasibility Study.

6.0 FIELD METHODS AND SAMPLING PROCEDURES

6.3 POST-EXCAVATION SAMPLING PROCEDURES

Step 10 will be revised as follows.

10. Once field test kits and on-site radiological laboratory results indicate that a grid is below cleanup goals and Radiological Remedial Objectives (RROs), then one discrete sample will be recollected from the bottom of the grid and/or the perimeter sidewall as described in steps 2 through 4 for off-site laboratory analysis of PCBs and TPH. For grids excavated to 7.5 feet bgs or less, a bottom sample will be collected at approximately 8 feet bgs using a hand-auger or similar device for on-site radiological analysis and off-site PCB and TPH analysis. In addition, samples collected in grids 88 and 89 will be analyzed for VOCs, SVOCs, and pesticides. Encores will be collected for TPH-purgeable and VOC analysis as described in Section 6.4.1, Step 6.

8.0 QUALITY ASSURANCE OBJECTIVES

8.1 DATA QUALITY OBJECTIVES

Add the following to Step 7, item 4a: Samples collected in grids 88 and 89 will also be analyzed for VOCs, SVOCs, and pesticides. The data from these additional analyses will be considered during the Parcel E and E-2 Feasibility Study.

14.0 REFERENCES

Tetra Tech EC, Inc. 2005. *Final Sampling and Analysis Plan*. Revision 0. Hunters Point Shipyard, San Francisco, California. DCN: FWSD-RAC-05-1442.



TETRA TECH EC, INC.

TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N68711-98-D-5713 (RAC III)

Document Control No. 06-0922

File Code: 5.0

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest
Ms. Beatrice Appling, AQE.BA
1220 Pacific Highway
San Diego, CA 92132-5190

DATE: 06/01/06
CTO: 0084
LOCATION: Hunters Point

FROM: Neil Hart, Program Manager

DESCRIPTION: Final Addendum 1 to the Final Sampling and Analysis Plan
(Field Sampling Plan and Quality Assurance Project Plan) May 18, 2006
PCB Hot Spot Soil Excavation Site Parcels E and E-2

TYPE: Contract/Deliverable, CTO Deliverable, Notification, Other

VERSION: Final, REVISION #: N/A

ADMIN RECORD: Yes, No, Category, Confidential

SCHEDULED DELIVERY DATE: 05/18/06, ACTUAL DELIVERY DATE: 06/01/06

NUMBER OF COPIES SUBMITTED: 0/8C/6E, Copy of SAP to N. Ancog

COPIES TO: (Include Name, Navy Mail Code, and Number of Copies)

NAVY: C. Mafara, *BPMOW, *J. Payne, *P. Brooks, D. Silva, N. Ancog, P. Stroganoff, Basic Contract Files, 1C
TtEC: G. Slattery, D. Delong, G. Clark, L. Sexton, J. Levell, L. Bienkowski, M. Schneider, U. Trulsson Messer, Library Copy HPS, Library Copy SD
OTHER: L. Lowman / M. Slack - RASO, M. Mentink - CSO, *See Attached Cover Letter for Additional Distribution

Date/Time Received