

1/29/07-02564



CH2MHILL

CH2M HILL
5700 Cleveland Street
Ste. 101
Virginia Beach, VA
23462
Tel 757.518.9666
Fax 757.497.6885

January 29, 2007

07-GBD-0036

Mr. Daniel Rodriguez
Remedial Program Manager
Caribbean Environmental Protection Division
U.S. Environmental Protection Agency
Vieques Office Park
Carr. 200, Km 0.4
Vieques, PR 00765-1537

Re: *Final Environmental Remedial Investigation Work Plan, Solid Waste Management Unit (SWMU) 4, Former Naval Ammunition Support Detachment, Vieques Island, Puerto Rico*

Dear Mr. Rodriguez:

On behalf of the Navy, CH2M HILL is pleased to submit one hardcopy and one CD of the *Final Environmental Remedial Investigation Work Plan, Solid Waste Management Unit (SWMU) 4, Former Naval Ammunition Support Detachment, Vieques Island, Puerto Rico*. The Final RI Work Plan incorporates revisions made to the Draft Final Work Plan as a result of the multi-agency site visit on Thursday January 18, 2007 and as a result of procuring the laboratory that will provide analytical services during the SWMU 4 RI. These revisions are summarized on pages 3 and 4 of this cover letter.

Additional copies of the Final RI Work Plan have been sent to the individuals listed below. Numbers and types of copies are shown in parentheses following the individuals' names. In addition to the above, an electronic copy will also be posted to the Vieques website.

Should you have any questions, please do not hesitate to contact Mr. Kevin Cloe at (757) 322-4736 or me at (757) 348-8409. Additionally, please direct any return correspondence to Mr. Cloe.

Sincerely,

G. Brett Doerr
CH2M HILL
Environmental Manager

Mr. Daniel Rodriguez
Page 2
January 29, 2007

cc: Mr. Carl Soderberg/USEPA (1 hardcopy, 1 CD)
Mr. Sergio Lopez/USEPA (1 hardcopy, 1 CD)
Mr. Michael Sivak/USEPA (1 hardcopy, 1 CD)
Ms. Diana Cutt/USEPA (1 hardcopy, 1 CD)
Ms. Mindy Pensak/USEPA (1 hardcopy, 1 CD)
Mr. John Fellingner/TechLaw (1 hardcopy, 1 CD)
Mr. Carlos W. López Freytes, Esq/PREQB (copy of cover letter only)
Ms. Yarissa Martinez/PREQB (2 hardcopies, 2 CDs)
Ms. Wilmarie Rivera/PREQB (1 hardcopy, 1 CD)
Mr. Richard Henry/USFWS (1 hardcopy, 1 CD)
Sr. Oscar Diaz-Marrero/USFWS (1 hardcopy, 1 CD)
Ms. Susan Silander/USFWS (1 hardcopy)
Sr. Felix Lopez Arroyo/USFWS (1 hardcopy, 1 CD)
Mr. Byron Brant/Navy (copy of cover letter only)
Mr. Christopher Penny/Navy (1 hardcopy, 1 CD)
Mr. Kevin Cloe/Navy (1 hardcopy, 1 CD)
Mr. John Noles/Navy (1 hardcopy)
Ms. Madeline Rivera/Navy (1 hardcopy, 1 CD)
Ms. Bonnie Capito/Navy (1 hardcopy, 1 CD)
Ms. Katarina Rutkowski/TRC (1 hardcopy, 1 CD)
Mr. Andrew Smyth/TRC (1 hardcopy, 1 CD)
Ms. Diane Wehner/NOAA (1 hardcopy, 1 CD)
Mr. John Tomik/CH2M HILL (copy of cover letter only)
Ms. Rebecca Singleton/CH2M HILL (1 hardcopy, 1 CD)
Ms. Brad Young/CH2M HILL (1 CD)

Summary of Revisions Incorporated into the Final RI Work Plan

1. Figures 4-2, 4-3, 4-5, and 4-6 and Tables 4-3, 4-4, and 4-5 have been revised to reflect the number and locations of samples in ephemeral streams and Laguna Boca Quebrada concurred upon during the multi-agency site visit on January 17, 2007.
2. Text in the Executive Summary (8th paragraph) and Sections 4.3.4 (6th, 7th, and 8th bullets), 4.3.5 (first paragraph), and 4.3.6 (first paragraph) has been revised to be consistent with the figure revisions and the surface water and sediment sampling protocol concurred upon during the multi-agency site visit on January 17, 2007.
3. The project chemist has been changed to Mr. Mike Zamboni, the field team leader has been changed to Mr. Stephen Brand, and the EIS has been changed to Ms. Chelsea Bennet, which are reflected in all applicable worksheets.
4. The analytical laboratory procured for the SWMU 4 RI is Shealy Environmental Incorporated (and their subcontractors Severn Trent Laboratory and Columbia Analytical Services). All applicable worksheets have been changed to reflect this information.
5. Additionally, laboratory-specific worksheets have been revised to reflect information specific to the SWMU 4 RI and specific to Shealy (and their subcontractors) as follows:

Worksheet 12: As applicable, the Analytical Group and Concentration Level cells have been updated to reflect EPA method titles and what will actually be performed by Shealy. For example, several of the worksheet pages show a revised concentration range within the same method listed in the Draft Final version. These revised concentration ranges will allow lower reporting levels. In addition, worksheet pages have been added and/or existing worksheet pages revised for ICP/MS 6020 (for thallium), AVS/SEM, EPA 310.1 (for alkalinity), SW-846 9060 (for TOC), and SW-846 9040 (for pH).

Worksheet 15: The pages of this worksheet have been revised to reflect Shealy-specific MDLs and the Concentration Level revisions made in Worksheet 12. In addition, the following revisions have been made:

- On Worksheet #15-11, the QLs have been adjusted down to 0.12 mg/kg
- On Worksheets #15-12 and #15-13, the QL has been adjusted down to 0.1 µg/kg
- On Worksheet #15-14, the cyanide QL has been adjusted down to 0.5 mg/kg and thallium has been pulled out and placed on a new worksheet (Worksheet #15-15) and its QL has been adjusted down to 0.2 mg/kg
- On Worksheet #15-16, Redox Potential has been removed (inadvertently on original table) and the TOC QL has been adjusted up to 500 mg/kg
- Worksheet #15-17 has been added for AVS/SEM
- The Low/Medium VOC worksheets for groundwater and surface water have been eliminated because only Trace and Trace SIM analyses are being performed
- On Worksheet #15-26, the QLs have been adjusted down to 0.25 µg/L
- On Worksheet #15-27, the QL has been adjusted down to 0.1 µg/L
- On Worksheet #15-28, the QL has been adjusted down to 0.1 µg/L
- Worksheet #15-33 has been split into two worksheets (#15-33 and #15-34) in order to achieve lower QLs where possible within ILM05.3

Mr. Daniel Rodriguez

Page 4

January 29, 2007

- On Worksheet #15-35, Total Suspended Solids has been replaced with Total Dissolved Solids and alkalinity, TOC, nitrite, and chloride have been added

Worksheet 19: Updated to reflect the revisions made to Worksheets 12 and 15 and addition of several analyses (e.g., AVS/SEM, thallium)

Worksheet 23: Updated to reflect Shealy, Severn Trent, and Columbia Analytical SOPs

Worksheets 24 and 25: Updated to reference laboratory-specific SOPs

Worksheet 28: Comparable revisions to those made for Worksheet 12

Worksheet 30: Comparable revisions to those made for Worksheets 12, 24, and 25

Worksheet 36: Comparable revisions to those made for Worksheet 12