

**Michael Baker Jr., Inc.***A Unit of Michael Baker Corporation*

Airside Business Park
100 Airside Drive
Moon Township, PA 15108
Office: 412-269-6300
Fax: 412-375-3995

December 20, 2007

U.S. Environmental Protection Agency - Region II
290 Broadway – 22nd Floor
New York, New York 10007-1866

Attn: Mr. Adolph Everett, P.E.
Chief, RCRA Programs Branch

Re: Contract N62470-07-D-0502
IQC for A/E Services for Multi-Media
Environmental Compliance Engineering Support
Delivery Order (DO) 0002
U.S. Naval Activity Puerto Rico (NAPR)
EPA I.D. No. PR2170027203
Final Phase I RCRA Facility Investigation Work Plan for SWMU 57
Final Phase I RCRA Facility Investigation Work Plan for SWMU 60
Final Phase I RCRA Facility Investigation Work Plan for SWMU 62
Final Phase I RCRA Facility Investigation Work Plan for SWMU 67
Final Phase I RCRA Facility Investigation Work Plan for SWMU 70
Final Phase I RCRA Facility Investigation Work Plan for SWMU 71
Final Phase I RCRA Facility Investigation Work Plan for SWMU 75

Dear Mr. Everett:

Michael Baker Jr., Inc. (Baker), on behalf of the Navy, is pleased to provide you with one hard copy of the replacement pages for the Draft Phase I RCRA Facility Investigation Work Plan for SWMU 57, Naval Activity Puerto Rico, the Draft Phase I RCRA Facility Investigation Work Plan for SWMU 60, Naval Activity Puerto Rico, the Draft Phase I RCRA Facility Investigation Work Plan for SWMU 62, Naval Activity Puerto Rico, the Draft Phase I RCRA Facility Investigation Work Plan for SWMU 67, Naval Activity Puerto Rico, the Draft Phase I RCRA Facility Investigation Work Plan for SWMU 70, Naval Activity Puerto Rico, the Draft Phase I RCRA Facility Investigation Work Plan for SWMU 71, Naval Activity Puerto Rico, and the Draft Phase I RCRA Facility Investigation Work Plan for SWMU 75, Naval Activity Puerto Rico, for your review and approval. These replacement pages make up the Final Phase I RCRA Facility Investigation Work Plans for SWMUs 57, 60, 62, 67, 70, 71, and 75. Directions for inserting the replacement pages into the Draft Phase I RCRA Facility Investigation Work Plans for SWMUs 57, 60, 62, 67, 70, 71, and 75 are provided for your use. Also included with the copy of the replacement pages is one electronic copy provided on CD of the Final Phase I RCRA Facility Investigation Work Plans for SWMUs 57, 60, 62, 67, 70, 71, and 75, Naval Activity Puerto Rico. It should be noted that the Phase I RFI Work Plan for SWMU 76 is not being submitted at this time as outlined in the Navy letter dated December 14, 2007 that was submitted to your office.

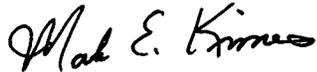
It should be noted that based on current information, the Navy plans to implement the Phase I RFI Work Plans in lieu of the new property owners. Therefore these work plans have been modified reflecting the Navy intent to implement these work plans instead of a third party. The only exception will be SWMU 76, which currently is planned for implementation by the Army National Guard.

Mr. Adolph Everett, P.E.
U.S. Environmental Protection Agency, Region II
December 20, 2007
Page 2

These documents are being submitted in accordance with the EPA comments dated October 18, 2007. The Navy responses to these comments are attached for your review. Additional distribution has been made as indicated below.

If you have questions regarding this submittal, please contact Mr. Mark E. Davidson at (843) 743-2135.

Sincerely,
MICHAEL BAKER JR., INC.



Mark E. Kimes, P.E.
Activity Coordinator

MEK/lp
Attachments

cc: Ms. Debra Evans-Ripley, BRAC PMO SE (letter only)
Mr. David Criswell, BRAC PMO SE (letter only)
Mr. Jeffrey G. Meyers, BRAC PMO SE (letter only)
Mr. Mark E. Davidson, BRAC PMO SE (1 hard copy and 1 CD)
Mr. Pedro Ruiz, NAPR (1 hard copy and 1 CD)
Ms. Bonnie Capito, NAVFAC Atlantic – Code EV42 (1 hard copy for Admin Record)
Mr. Tim Gordon, US EPA Region II (1 hard copy and 1 CD)
Mr. Carl Soderberg, US EPA Caribbean Office (1 hard copy and 1 CD)
Ms. Josefina A. Gonzalez, PREQB (1CD)
Mr. Julio I. Rodriquez Colon, PR EQB (1 hard copy and 1 CD)
Mr. Felix Lopez, US F&WS (1CD)
Mr. Andrew Dorn, TechLaw, Inc. (1 CD)

NAVY RESPONSE TO EPA LETTER DATED OCTOBER 18, 2007

EPA GENERAL COMMENTS ON DRAFT PHASE I RCRA FACILITY INVESTIGATION WORK PLANS for SWMUs 57, 60, 62, 67, 70, 71, 75, and 76 DATED AUGUST 31, 2007

(EPA comments are provided in italics while the Navy responses are in regular print)

EPA General Comment 1

1. *The required Quality Assurance Project Plan (QAPP), which is included as an appendix to all the above RFI Work Plans, indicates (in Section 1.2 of the QAPP) that it was developed in accordance with EPA guidelines (USEPA, 2001, Environmental Protection Agency [EPA] Requirements for Quality Assurance Project Plans, QA/R-5). However, the information presented in the QAPP does not meet the majority of the specific requirements provided in the above cited QA/R-5. Some examples include the following:*

- *Per Element B5 in QA/R-5, the QAPP did not provide laboratory and field QC methods and procedures, acceptance criteria, and corrective action.*
- *Per QA/R-5, examples of all forms, labels and checklists should be included as part of the QAPP. These are not all provided.*
- *The QAPP does not provide sufficient discussion of data management procedures per Element A9 of QA/R-5.*
- *The QAPP lists the minimum information to be placed on the bottle labels. This list does not include the analysis or preservatives.*
- *The QAPP discusses the data validation process, but does not discuss how data to be validated will be selected, the percentage of data to be validated, if all data will be fully validated, or if differing levels of validation will be performed.*

EPA Region 2's current policy is that QAPPs should be developed in accordance with the Uniform Federal Policy for Quality Assurance Project Plans (UFP-QAPP), dated March 2005. The UFP-QAPP was developed using the same standard as that used for development of QA/R-5. QAPPs developed in accordance with UFP-QAPP will meet the requirements of QA/R-5. However, the information presented in the QAPP included with the CMS work plans, lacks sufficient detail to meet the requirements of the UFP-QAPP or QA/R-5. The QAPP should be completely revised to include sufficient detail to meet the requirements of UFP-QAPP guidance.

Navy Response to EPA General Comment 1: The Work Plans were originally prepared with the understanding that an as yet undetermined third party would be responsible for implementation of the activities; consequently, the work plans were written in an open-ended fashion to allow the third party entity the flexibility of identifying DQOs, SOPs, and QAPP requirements for USEPA approval. Based on current information, the Navy plans to implement the Phase I RFI work plans in lieu of the new property owners. The only exception will be SWMU 76, which currently is planned to be implemented by the Army National Guard. The Navy has implemented previous investigations at NAPR in accordance with the EPA approved Master Project Management Plan (PMP), Master Data Collection Quality Assurance Plan (DCQAP), Data Management Plan (DMP), and Master Health and Safety Plan (HSAP) for NAPR. These Master Plans define acceptable data requirements and error levels associated with the field and analytical portions of this investigation. Therefore, to maintain consistency with past Navy work under

the Consent Agreement, this work plan has been revised using the Navy's EPA approved Master Plans for this facility.

EPA General Comment 2

- In the August 31, 2007 draft Work Plans and the schedules contained in those work plans, the Navy proposes that implementation of the work plans be suspended until the parcels containing solid waste management units (SWMUs) 57, 60, 62, 67, 70, 71, 75 and 76 are transferred or acquired by a "third party" entity, and that implementation of those eight RFI work plans then be carried out by the "third party" entity who acquires the parcel. While the January 2007 RCRA Consent Order allows suspension of certain Navy obligations for transferred portions of the facility (if those obligations are satisfied by requirements in a new "third party" Order), it does not allow for suspension prior to such transfers. Therefore, EPA is not willing to approve a suspension in the Navy's requirements with regard to these eight RFI work plans at this time. Once acceptable revisions of these work plans are developed to address EPA's comments on these work plans (including those in the below discussed Technical Reviews), implementation should commence within sixty (60) days of receipt of EPA's written approval of the work plan. Once an acceptable "third party" Template Order is finalized and an imminent transfer to a "third party" is identified and brought to EPA's attention, EPA may be willing to discuss an alternative timeframe for commencement of the required work.*

Navy Response to EPA General Comment 2: Based on current information, the Navy plans to implement the Phase 1 RFI work plans in lieu of the new property owners. The only exception will be SWMU 76, which currently is planned to be implemented by the Army National Guard. Therefore the schedules in the RFI work plans have been modified to reflect the Navy implementing the plans without suspension of the work pending transfer of property to a third party. The schedule for SWMU 76 will be modified accordingly to the Army National Guard performing the work. The submission of this work plan will reflect the revised schedule when it is submitted February 1, 2007 in accordance with the Navy letter dated December 14, 2007.

EPA General Comment 3

- Additional comments are also given in eight Technical Reviews (dated October 5th and 10th, 2007) prepared for EPA by our consultant, TechLaw, Inc.. Since those eight Technical Reviews have been previously transmitted to you via separate Emails, they are not enclosed here. However, if you wish them to be electronically transmitted to you again, please advise. Please revise the eight draft RFI work plans to address the comments in those eight Technical Reviews (dated October 5th, 9th, and 10th, 2007).*

Within 60 days of your receipt of this letter, please submit revisions to the above RFI work plans which address the above comments as well as the comments in the eight Technical Reviews (dated October 5th, 9th, and 10th, 2007), which have been previously transmitted to you via separate Emails.

Navy Response to EPA General Comment 3: Navy responses to the technical reviews by EPA's consultant are attached. The revised Phase 1 RFI work plans for SWMUs 57, 60, 62, 67, 70, 71, and 75 are being submitted 60 days from the receipt of EPA's comments on October 18, 2007. The revised Phase I work plan for SWMU 76 will be submitted on February 1, 2008 after National Guard Bureau review, in accordance with the Navy letter dated December 14, 2007.

NAVY RESPONSE TO EPA COMMENTS DATED OCTOBER 18, 2007

TECHLAW COMMENTS ON THE DRAFT PHASE I RFI WORK PLAN FOR SWMU 75

(TechLaw comments are provided in italics while the Navy responses are in regular print)

GENERAL COMMENTS

TechLaw General Comment 1

1. *According to Section 1.B.3 of EPA's May 1994 guidance "Final RCRA Corrective Action Plan" (OSWER Directive 9902.3-2A), a preliminary assessment and description of all potential migration pathways including information on geology, pedology, hydrogeology, physiography, hydrology, water quality, foodwebs, meteorology, and air quality should be incorporated into the nature and extent of contamination discussion. However, the Work Plan does not provide the aforementioned information. Due to the complex local hydrology and hydrogeology, a thorough evaluation of site conditions and potential migration pathways including a flow potentiometric map should be provided in the Work Plan.*

Navy Response to TechLaw General Comment 1: The guidance cited in the comment refers to a section entitled "Preliminary Assessment of Nature and Extent of Contamination" under the Scope of Work for a RCRA Facility Investigation. Note that the subject work plan is for the implementation of a Phase I RFI, for the purpose of confirming whether a release has occurred, in accordance with USEPA Region II guidance (Timothy Gordon, August 7, 2007 presentation). In accordance with this guidance, there are two types of RFIs, a Phase I RFI and a Full RFI. The purpose of the Phase I RFI is as follows:

- "Confirm through environmental sampling whether or not releases of hazardous waste and hazardous constituents are present from units identified in the RFA
- Determine whether or not a full RFI is required."

The information requested in the comment will be provided in a full RFI report following a full RFI investigation, should the Phase I RFI results recommend that the site proceed towards a full RFI. No text revision is necessary to this work plan.

TechLaw General Comment 2

2. *Section 2.1 (Current Site Conditions/Usage) states that Building 803 contains access/manway doors in the floor that lead directly to Ensenda Honda. During the Phase I/II ECP investigation, investigators noted numerous stains on the floor and evidence of previous releases of waste oil and diesel fuel. In addition, as seen in Appendix A (Photographs of SWMU 75, Building 803), several cracks and holes can be seen in the concrete floor of the building. As such, it is unclear why Section 3.0 (Scope of Investigation) states that, ". . . [I]t is unlikely that significant contamination could have migrated to the exterior environment to Ensenada Honda or vertically migrated to the groundwater within the site." Revise the Work Plan to include sampling at the outfall to Ensenda Honda, along the access/manway that leads directly to Ensenda Honda, and the area immediately surrounding the access/manway to Ensenda Honda, or clarify why sampling is not necessary.*

Navy Response to TechLaw General Comment 2: It is acknowledged that various cracks can be seen in the building floor; however, it is unlikely that these cracks penetrate through the entire thickness of the concrete. The only hole visible in any of the photographs is the one near the motor in Photograph A-3. However, there

is no evidence that the hole was used for discharging any waste oil or diesel fuel. The nearest location of a potential spill was tested using the wipe sample at location 21E-01, where no SVOCs were detected, except for a low concentration of bis(2-Ethylhexyl)phthalate.

The observations and photographs from the ECP do not suggest that the access/manway was used as a discharge location for wastes. Most likely, it was used for personnel to enter and clear the intake to the salt-water pumps. Therefore, it is not considered necessary to sample the access/manway or its surrounding area within the building, which has already been sampled using the wipe samples. Moreover, there is no outfall (rather, it is an intake) at the Ensenada Honda. The rationale for not sampling around the manway/access and its surrounding, within the salt-water intake inside the building, and at the “outfall” at Ensenda Honda will be included in Section 3.0.

TechLaw General Comment 3

- 3. Section 4.4 (Nature and Extent of Contamination) of the Work Plan states that soil and groundwater analytical data will be screened against EPA Region 9 preliminary remediation goals (PRGs) and previously developed ecological screening values. However, Section 1.1 (Problem Definition and Performance Standards) of Appendix C [Quality Assurance Project Plan (QAPP)] identifies Puerto Rico Environmental Quality Board (PREQB) target levels and Region 9 PRGs as the screening criteria/performance standards to be utilized. The performance standards identified in the Work Plan and QAPP need to be consistent, and should be EPA-approved. Revise the Work Plan and QAPP so that the screening criteria/performance standards are the same. In addition, previously collected site-specific data is currently screened to EPA Region 3 risk-based concentrations (RBCs). The data assessment/screening process needs to be consistent. Provide a discussion of the rationale for this change in screening values and how it impacts screening of previous samples.*

Navy Response to TechLaw General Comment 3: At the time the Phase II ECP investigation was completed, the EPA Region 2 directed the use of EPA Region 3 RBCs for screening of site-related data. Currently, the EPA Region 2 directs the use of the EPA Region 9 PRGs rather than RBCs. Therefore, all subsequent reporting should include Region 9 PRGs for screening data. With exception of some soil screening values for volatile organic compounds, this change is not likely to result in a significant impact to the previous screening of the data as the individual differences in the RBC and PRG screening values are minor. No revisions proposed.

Environmental media (soil, groundwater, etc.) were previously not collected at this site. Therefore, Region 3 RBCs were not used to screen the data from previous samples at this site.

TechLaw General Comment 4

- 4. The screening criteria utilized for the Phase I/II ECP investigation wipe samples has not been provided in Section 2.2 (Previous Investigations) or Appendix B (Summary of Analytical Results from Phase II ECP Survey). It is unclear what these results were compared against. Other site generated data from the proposed investigation will be compared to EPA Region 9 PRGs or previously developed ecological screening values. Revise the Work Plan to clarify what the analytical results from the Phase I/II ECP investigation were compared against. The text references comparing the wipe samples to the Toxic Substance Control Act (TSCA) standard for residential lead-based paint dust. The relevancy of this criterion has not been established. The wipe samples are not representative of environmental conditions outside the structure. Revise the Work Plan to clearly indicate what standards will be used for future data generated and how the wipe data will be used to assess environmental conditions.*

Navy Response to TechLaw General Comment 4: The wipe samples were compared to standards for residential lead-based paint dust to provide a general point of reference to evaluate the magnitude of the concentrations. The reason for the TSCA reference will be included in Section 2.2. Section 4.4 discusses the screening criteria that will be used for comparing the data to be generated from the environmental samples to be collected from the proposed investigation. Previously collected wipe samples are not intended to be used for determining whether a release has occurred to the environment outside the building. However, it was useful to show that the interior of the building was not grossly contaminated by the operations. It may also be considered for evaluating potential future building uses, assuming that the lead contamination detected in the wipe samples was a result of lead-based paint that may have been used inside the building.

TechLaw General Comment 5

5. *There is no figure showing the locations of the wipe samples with respect to the physical features of Building 803. A line drawing showing all sumps, cracks, entrances and exists, and any other physical features of the structure and the location of the wipe samples with respect to these features needs to be provided. Revise the Work Plan to include the figure with the requested information.*

Navy Response to TechLaw General Comment 5: Details of the interior of the building are not available. However, an attempt has been made using the captions of the photographs in Appendix A to indicate the approximate locations of the wipe samples. No revisions to figures or additional figures will be provided.

TechLaw General Comment 6

6. *Based on Figure 3-1 (Proposed Sample Location Map), there are no samples proposed for the north side of Building 803. Revise the Work Plan to include sampling along the north side of the building or clarify why samples were not collected.*

Navy Response to TechLaw General Comment 6: The north side of the building is not accessible to personnel or drill rigs because it is an enclosed area immediately abutting the wall of the building where electrical transformers are present. The reason for not proposing sample locations north of the building will be provided in Section 3.1.

TechLaw General Comment 7

7. *The Appendix C, NAPR Draft Quality Assurance Project Plan (QAPP), dated August 31, 2007, has been developed in accordance with EPA guidelines (USEPA, 2001, Environmental Protection Agency [EPA] Requirements for Quality Assurance Project Plans, QA/R-5). However, the information presented in the QAPP in Appendix C does not meet the majority of the specific requirements provided in QA/R-5. Some examples include the following:*
 - a. *Per Element B5 in QA/R-5, the QAPP did not provide laboratory and field QC methods and procedures, acceptance criteria, and corrective action.*
 - b. *Per QA/R-5, examples of all forms, labels and checklists should be included as part of the QAPP. These are not all provided.*
 - c. *The QAPP does not provide sufficient discussion of data management procedures per Element A9 of QA/R-5.*
 - d. *The QAPP lists the minimum information to be placed on the bottle labels. This list does not include the analysis or preservatives.*

- e. *The QAPP discusses the data validation process, but does not discuss how data to be validated will be selected, the percentage of data to be validated, if all data will be fully validated, or if differing levels of validation will be performed.*

EPA Region 2's current policy is that QAPPs should be developed in accordance with the Uniform Federal Policy for Quality Assurance Project Plans (UFP-QAPP), dated March 2005. The UFP-QAPP was developed using the same standard as that used for development of QA/R-5. QAPPs developed in accordance with UFP-QAPP will meet the requirements of QA/R-5. However, the information presented in this QAPP is lacking in sufficient detail to meet the requirements of the UFP-QAPP or QA/R-5. The QAPP in Appendix C should be completely revised to include sufficient detail in order to meet the requirements of UFP-QAPP guidance.

Navy Response to TechLaw General Comment 7: The Work Plans were originally prepared with the understanding that an as yet undetermined third party would be responsible for implementation of the activities; consequently, the work plans were written in an open-ended fashion to allow the third party entity the flexibility of identifying DQOs, SOPs, and QAPP requirements for USEPA approval. Based on current information, the Navy plans to implement the Phase I RFI work plan in lieu of the new property owners. The Navy has implemented previous investigations at NAPR in accordance with the EPA approved Master Project Management Plan (PMP), Master Data Collection Quality Assurance Plan (DCQAP), Data Management Plan (DMP), and Master Health and Safety Plan (HSAP) for NAPR. These Master Plans define acceptable data requirements and error levels associated with the field and analytical portions of this investigation. Therefore, to maintain consistency with past Navy work under the Consent Agreement, this work plan has been revised using the Navy's EPA approved Master Plans for this facility.

TechLaw General Comment 8

8. *The Data Quality Objectives (DQOs) have not been adequately defined for the Appendix C QAPP. Until a complete set of DQOs is provided, the adequacy of the QAPP and Work Plan cannot be fully evaluated. Further, when revised DQOs are provided, the DQOs need to reflect the proposed activities of the revised Work Plan. Both the Work Plan DQOs and QAPP will need to be reviewed to ensure the proposed activities of the Work Plan correlate with the revised DQOs. In revising the QAPP, provide the completed seven step DQOs and ensure they are consistent with the Guidance on Systematic Planning Using the Data Quality Objectives Process, dated February 2006 (QA/G-4).*

Navy Response to TechLaw General Comment 1: As discussed in response to TechLaw General Comment 7 above, the QAPP provided in Appendix C will be removed. Although the seven-step DQO process was not applied rigorously, elements essential to the process (with the exception of a statistically determining the number of samples) have been considered in the development of the sampling design. Because the investigation is designed to determine whether or not impacts have occurred to soil and groundwater at the site, the sample locations have been selected to reflect the most likely impacted areas based on site history and professional judgment. If an impact is determined to have occurred and poses a potential unacceptable risk to human or ecological receptors, then a decision will be made to proceed to a full RFI. Otherwise, a decision will be made to recommend Corrective Action Complete for the site.

TechLaw General Comment 9

9. *The Appendix C QAPP indicates that a laboratory has not been selected. This, combined with the incomplete DQOs, severely limits the usefulness of the QAPP. For example, laboratory specific acceptance limits will change the precision, accuracy and completeness values on Table 3-2 of the Work Plan. In revising the QAPP, include laboratory specific information for QC samples, calibration, preventative maintenance, audits, corrective action, sample analysis and preparation, etc. In addition, each laboratory's standard reporting list (e.g., for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals) may vary. Ensure that the analyte lists in the QAPP are provided to the laboratory so that the proper contaminants of concern (COCs) are reported.*

Navy Response to TechLaw General Comment 1: See the response to TechLaw General Comment 7 above. As part of the subcontractor selection process, the laboratory will be provided Table 3-2 of the work plan ensuring that the appropriate analytes for this project will be reported.

SPECIFIC COMMENTS

TechLaw Specific Comment 1

1. *Section 3.0, Scope of Investigation, Page 3-1: According to the first bullet point, “Five surface soil samples will be collected from six boring locations as shown on Figure 3-1.” However, according to Figure 3-1 (Proposed Sample Location Map) and Table 3-1 (Summary of Sampling and Analytical Program), only five boring locations have been proposed. Revise the Work Plan to resolve this discrepancy.*

Navy Response to TechLaw Specific Comment 1: Both bullets will be corrected to state that five borings are proposed.

TechLaw Specific Comment 2

2. *Section 3.1, Soil Sampling and Analysis Program, Page 3-1: This section states that, “A boring log will be developed for each boring location.” Revise the Work Plan to clarify that blow counts, lithology, water occurrence, flame ionization detector (FID)/ photo ionization detector (PID) reading, and miscellaneous observations will be recorded on the boring logs as soil sampling will be based on FID/PID, olfactory and visual screening results.*

Navy Response to TechLaw Specific Comment 2: The sentence will be revised and replaced with the following: “A boring log will be prepared indicating blow counts, lithology, water occurrence, flame ionization detector (FID)/photo ionization detector (PID) readings, and miscellaneous (visual and olfactory) observations.”