

# Marine Corps Base Camp Lejeune (MCB Camp Lejeune) Restoration Advisory Board (RAB) Meeting Minutes

**MEETING DATE:** November 14, 2018

**LOCATION:** Coastal Carolina Community College, Business Technology Building, Jacksonville, North Carolina

**ATTENDEES:** Dave Cleland/NAVFAC Mid-Atlantic  
 Charity Delaney/MCB Camp Lejeune  
 Thomas Richard/MCB Camp Lejeune  
 Randy McElveen/NCDEQ  
 Jennifer Tufts/EPA  
 Laura Bader/RAB Co-Chair

Thomas Mattison/RAB Member  
 Steven Thompson/RAB Member  
 Betsy Collins/CH2M  
 Matt Louth/CH2M

**FROM:** Betsy Collins/CH2M

**DATE:** January 28, 2019

## I. Welcome and Introductions

Ms. Delaney began the meeting and reviewed the agenda.

## II. Update on Site 49

**Objective:** The purpose of this agenda item was to provide an update on the Site 49 Air Sparging (AS) Pilot Study.

**Overview:** A presentation was reviewed by Ms. Collins. Site 49 is the Marine Corps Air Station New River Suspected Minor Dump Site. The Record of Decision was signed for Site 49 in 2012 documenting the selection of the remedy as monitored natural attenuation of groundwater and porewater and land use controls. The current nature and extent of contamination trichloroethene (TCE) and vinyl chloride (VC) in groundwater is located at one monitoring well (IR49-MW01). Based on trends indicating TCE and VC are not attenuating as rapidly as predicated at the time of the Record of Decision (ROD), an AS pilot test was conducted in April 2018. Air was injected into IR49-MW01IW (screened 40 to 45 feet below ground surface [bgs]) to treat groundwater near IR49-MW01 (screened 6 to 16 feet bgs). The average flow rate was 12 standard cubic feet per minute with a pressure of 50 pounds per square inch. Effects from the AS, including a raised water table and bubbling, were seen up to 100 feet from the injection point in all directions. Three-day and one-month post AS groundwater samples were collected from IR49-MW01 and analyzed for volatile organic compounds (VOCs). These results indicated an order of magnitude reduction in TCE concentrations and VC was not detected above the detection limit. Sampling will transition to quarterly monitoring and the site will be recommended for closure once four rounds with no exceedances is achieved.

## III. Munitions Response Site Prioritization Protocol (MRSPP) Update

**Objective:** The purpose of this agenda item was to review the MRSPP process, provide updated scoring information for previous sites and one new site, and discuss stakeholder involvement.

**Overview:** This presentation was given by Mr. Louth. The purpose of the MRSPP is to assign relative priority to each site known or suspected to contain, unexploded ordnance (UXO), discarded munitions (DMM), and munitions constituents (MC); and to use the priority with consideration of other factors in sequencing munitions response actions. The following evaluation modules are included:

- The Explosive Hazard Evaluation to evaluates explosive hazards posed by munitions and explosives of concern (MEC)
- The Chemical Warfare Materiel (CWM) Hazard Evaluation to evaluates hazards associated with CWM
- The Health Hazard Evaluation to evaluate health and environmental hazards posed MC and incidental contaminants

Priority scores range from 1 to 8 with 1 being the highest and 8 the lowest hazard level. Available information was used to:

- Score one new site in June 2018: UXO-30 (Priority 5)
- Document No Further Action (NFA) was achieved at three sites (UXO-21, 26, and 27)
- Achieved Response Complete (RC) at one site (UXO-19)

The public notice issued August 2018 and the updated prioritization scores were made available for public input on the public website and at the Onslow County Public Library.

The MRSPP will be updated with new information as information is discovered and environmental data is collected to establish new sequencing based on site hazards.

#### **IV. 2018 Accomplishments and 2019 Goals**

**Objective:** The purpose of this agenda item was to review 2018 accomplishments and planned activities for 2019.

**Overview:** This presentation was given by Mr. Louth.

In 2018, the following was accomplished under the Installation Restoration Program (IRP):

- Finalized Proposed Plan for Site 88, held public meeting, planning Treatability Study (TS), and planning to finalize ROD
- Completed Site Investigation (SI) for perfluorinated alkylated substances (PFAS) at 4 sites and initiated Basewide Preliminary Assessment (PA)
- Completed work planning for Expanded SI at new Site 110 and planning to conduct field activities
- Initiated TS for soil vapor extraction and enhance reductive dechlorination (ERD) at Site 96 in preparation for Feasibility Study (FS)
- Initiated the following TSs at 6 long-term monitoring (LTM) sites to facilitate site closure:
  - Oxygen reducing compound at Site 3
  - Biosparging at Site 6
  - Air sparging at Site 49
  - Biostimulation at Site 73
  - Bioaugmenting the bioreactor at Site 93
- Completed mulch wall replenishment (using emulsified vegetable oil substrate) at Site 89 and further evaluating a potential source area and impact to deep groundwater
- Completed groundwater treatment plant evaluation, conducted air sparging study, and conducted recovery well and capture zone evaluation at Site 78 to optimize site closure strategy

- Delineated groundwater and 3 volatile organic compound source areas at Site 82, updating conceptual site model (CSM), and planning for next steps

In 2018 the following was accomplished under the Military Munitions Response Program (MMRP):

- Signed ROD for UXO-06 and planning to complete Remedial Design
- Finalized Remedial Action Completion Report (RACR) for UXO-19
- Completed Expanded SI at UXO-23 and closed site with no further action
- Planning to submit draft UXO-24 Remedial Investigation (RI)/FS report
- Planning to complete UXO-28 RI Addendum work planning
- Planning to complete UXO-29 Preliminary Assessment/Site Inspection (PA/SI) report and RI work planning
- Planning to complete UXO-30 PA/SI work planning and field activities

The following are the IRP Goals for 2019:

- Continue TS monitoring at LTM sites and plan for additional studies at Sites 35, 73, 89, and 93 and evaluate site closure strategies
- Complete Basewide PA/SI for PFAS
- Complete Expanded SI report for Site 110 and determine path forward
- Complete Remedial Design for Site 88 and initiate Remedial Action
- Continue TS monitoring at LTM sites and plan for additional studies at Sites 35, 73, 89, and 93 and evaluate site closure strategies

The following are the MMRP Goals for 2019:

- Complete RACR for UXO-06
- Complete Proposed Plan, public meeting, ROD, and RD for land use controls at UXO-24
- Complete UXO-28, 29, and 30 reports and determine path forward

## **V. RAB Business**

Ms. Delaney asked the RAB members for potential topics and announced the next RAB meeting is scheduled for February 6, 2019.