

**MONTHLY PROGRESS REPORT #3  
FOR JUNE 1997**

**EPA REGION I ADMINISTRATIVE ORDER SDWA I-97-1019  
MASSACHUSETTS MILITARY RESERVATION  
TRAINING RANGE AND IMPACT AREA**

The following summary of progress is for the period from June 1 to June 30, 1997. Scheduled actions are for the six-week period ending August 13, 1997.

**1. SUMMARY OF ACTIONS TAKEN**

Field Work

Ogden, CMS Environmental (the UXO contractor), and T.F. Moran (the UXO contractor's surveyor) mobilized to the site on June 9. Safety briefings, meetings to discuss logistics with Range Control and EOD, and a tour of the work areas were completed on June 9. Survey control points were located on June 10-13. UXO avoidance was conducted from June 10 to June 24. During this time it became apparent that too many magnetic anomalies were present for effective avoidance in most areas. Ogden's contract with CMS was modified and on June 25 field crews switched to UXO removal. This scope of work includes investigation and removal (if possible) of UXO to a depth of two feet. Immovable UXO that must be blown-in-place is identified to the EOD detachment. The following areas were cleared by UXO removal during the month of June:

- Wheelock Road, from the entrance to the Impact Area east to Chadwick Road.
- A drilling decontamination pad at the corner of Wheelock and Turpentine.
- Turpentine Road, from Wheelock Road to Area 3 ("Site 1 Target Area")
- Drilling location for MW-1 with a vehicle turnaround at Area 3.
- Chadwick Road, from Turpentine Road north to Barlow Road except for a small section near the J-2 range (intersection of Chadwick and Barlow).
- Barlow Road, from Chadwick Road north to Wood Road.
- Wood Road, from Barlow Road west to Area 1 ("Valley of Death").
- Spruce Swamp Road, from Wheelock Road to Pocasset-Sandwich Road.
- Pocasset-Sandwich Road, from Spruce Swamp Road north to Five Corners.
- Knot Hollow Road, from Five Corners north to Jefferson Road.
- Gravel staging area at Five Corners.

In addition, the following areas were flagged for UXO avoidance without clearing (prior to June 25):

- Drilling location for MW-3 at Area 1.
- Access road from Wood Road to MW-3 drilling location.
- Area 8 (Succonsette Pond).
- Access path from Spruce Swamp Road to Area 8.
- Tank Alley from Turpentine Road to near Area 4 ("Mounds")

The attached table summarizes UXO that have been located during the avoidance and clearance

surveys, as of July 4, 1997.

### Archive Search

Ogden performed interviews on June 5, 11, and 30. Significant information from interviews included:

- depleted uranium rounds were reportedly fired at the J-2 range as part of the research conducted by the contractor Hesse Eastem;
- targets were reportedly placed on the Impact Area without draining fuels or lubricants until the early 1980's;
- workers wearing full containment suits were reportedly observed outside the northwest side of the BOMARC fence;
- solvents including carbon disulfide were reportedly present at the AVCO facility;
- pesticides were reportedly applied by truck by the Army pre-1974 in low areas along Gibbs Road;
- empty shell casings were reportedly buried by contractors using the J ranges;
- munitions have reportedly been found in several ponds on post, including Donnelly Pond.

Names for additional interviews were also identified.

Munitions databases were searched and historical records evaluated. Ogden prepared the draft Range Use History Report and the draft Chemical Composition of Munitions Report and submitted preliminary versions of these reports to EPA on June 18. Significant data gaps exist in the preliminary versions of these reports, as discussed with EPA during the meeting on June 18. A summary of revisions to these reports that are underway was faxed to EPA on June 23, 1997. Ogden proposed completing these draft reports for submittal to EPA on July 3, 1997.

A meeting with the Impact Area Citizen's Review Team was held on June 9, 1997. NGB provided updates on the UXO Survey, Archive Search, and schedule, and presented information concerning sampling activities.

A meeting with EPA, MADEP, and other stakeholders was held on June 18 at MADEP's Southeast Region Office. Comments on the Draft Final Action Plan were discussed and resolved. Two significant revisions to the work plan were identified: (1) a change to the surface soil sampling protocol, including sample locations, numbers of samples, and compositing strategy; and (2) changes in monitoring well locations and addition of five new monitoring wells.

A meeting with EPA, MADEP, and other stakeholders was held on June 26 at MADEP's Southeast Region Office. Comments on the Draft Final Action Plan were discussed and resolved. Sampling and analytical protocols and monitoring well locations were modified from those discussed at the June 18 meeting. Significant issues included: (1) additional analysis of surface and shallow subsurface soils; (2) modification of monitoring well and well nest positions; (3) addition of VOC screening in the saturated zone; and (4) addition of "far field" wells in the potential zones of contribution for the future water supply wells.

Ogden received Standard Operating Procedures and MDL studies from ITS (the laboratory

contractor) during the month of June. These were forwarded to EPA for review in accordance with a conference call between Ogden, EPA, and ITS on 6/13/97.

A synoptic round of water level measurements was performed on June 27, 1997 for 28 monitoring wells including LRWS, USGS, and IRP wells (CS-18, CS-19, FS-12, CS-10, and FS-14).

## **2. SUMMARY OF DATA RECEIVED**

Daily reports of UXO survey results were received by Ogden during June and are summarized in Section 1 and the attached Table 1. Water table measurements are summarized in Table 2.

## **3. DELIVERABLES SUBMITTED**

Deliverables submitted during the reporting period included the following:

Monthly Progress Report #2	June 8, 1997
Written Notification/Qualifications of Laboratory Subcontractor	June 12, 1997
Weekly Progress Update for June 9-13	June 13, 1997
Preliminary Draft Range Use History Report	June 18, 1997
Preliminary Draft Chemical Composition of Munitions Report	June 18, 1997
Weekly Progress Update for June 16-20	June 20, 1997
Minutes/Action Items from 6/18 Meeting of NGB & EPA	June 20, 1997
Weekly Progress Update for June 23-27 (incl. 6/26 meeting minutes)	June 28, 1997
Written Notification/Qualifications of Drilling & Surveying Subcontractors	June 28, 1997

## **4. SCHEDULED ACTIONS**

Actions scheduled for the next six weeks are indicated in Figure 1. This figure provides a Gantt chart based on the Draft Action Plan, updated to reflect progress and proposed work.

UXO Surveys will continue during July. The Draft Final Action Plan will be revised based on comments from EPA and other stakeholders, and submitted to EPA on July 10, 1997. A meeting of the Impact Area Citizen Review Team, including a tour of the Impact Area, will be conducted on July 10, 1997. Road building and Drilling crews are scheduled to mobilize to the site during the week of July 14. Drilling is scheduled to begin on about July 16, 1997, provided that sampling plans submitted to EPA prior to that date are acceptable. The Draft Range Use History Report and the Draft Chemical Composition of Munitions Report will be revised based on prior discussions and correspondence with EPA and submitted on July 16, 1997. Field Sampling Plans will be completed and submitted to EPA during the period from July 14 to 25, and sampling will commence as these are finalized in consultation with EPA.