

**MONTHLY PROGRESS REPORT #22  
FOR JANUARY 1999**

**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 January 1 to January 31, 1999. Scheduled actions are for the six-week period ending March 14, 1999.

**1. SUMMARY OF ACTIONS TAKEN**

UXO clearance at Demo Area 1 for the proposed soil borings was completed but soil sampling has not started due to standing water at many of the sampling locations. UXO clearance continued in the Impact Area for the drilling pads and access roads for the Phase II (a) wells. A 4.2" mortar HE with fuze and a 105mm Base Ejection SMK/Illumination round with MMF fuze were found while clearing the drilling pad for well MW-37. Two 155mm high explosive projectile (fuzed) munitions were found at the MW-40 drill pad.

Drilling crews and equipment were mobilized to the site. Drilling progress as of January 31 is summarized in Table 1. Groundwater profile samples collected during the month are summarized in Table 2 (sample type = "profile").

<b>Table 1. Drilling Progress as of January 31, 1999</b>				
<b>Boring Number</b>	<b>Purpose of Boring/Wells</b>	<b>Total Depth (ft bgs)</b>	<b>Depth below water table (ft)</b>	<b>Completed Well Screens (ft bgs)</b>
MW-21	Far field monitoring well upgradient of LRWS-2	272	102	196-206 226-236 261-271
MW-34	Delineate groundwater contamination downgradient of Demo 1	211	139	111-121 131-141 151-161
MW-35	Delineate groundwater contamination downgradient of Demo 1 and MW-34	195	110	84-94 100-110 155-165
MW-46a	Far field monitoring well upgradient of LRWS-2	367	162	
MW-47a	Far field monitoring well upgradient of LRWS-2	339	246	115-120 131.5-141.5
MW-50a	Far field monitoring well upgradient of 95-6	135		
MW-51a	Far field monitoring well upgradient of 95-6	343	138	

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<b>Boring Number</b>	<b>Purpose of Boring/Wells</b>	<b>Total Depth (ft bgs)</b>	<b>Depth below water table (ft)</b>	<b>Completed Well Screens (ft bgs)</b>
MW-52a	Far field monitoring well upgradient of LRWS-1	379	227	
MW-53a	Far field monitoring well upgradient of LRWS-1	305	181	121-131 283-293
bgs = below ground surface				

Resampling of Phase I wells was performed during the month. Wells that were resampled during January are summarized in Table 2 (sample type = “groundwater”).

The Guard met with EPA and MADEP on January 7 to discuss field activities and discuss comments on the Phase II (a) Workplan. The Guard met with EPA and MADEP on January 12 to discuss comments on the draft Phase IIa Workplan. The Guard discussed preliminary profile results and proposed screen elevations for MW-34, and a revised location for MW-35 with EPA on January 15 by telephone. The Guard, MADEP, and EPA spoke by conference call on January 19 to set screen depths for MW-47 and new MW-21, and to discuss screen depths for new MW-17. The Guard, MADEP, and EPA met on January 20 to tour the Impact Area and Training Ranges and discuss logistics for the UXO Survey. The Guard, MADEP, and EPA spoke by conference call on January 21 to discuss headspace readings and proposed screen elevations for MW-53. This boring was terminated at about 300 feet due to a potential concern with the drilling process providing a pathway for migration of unidentified contaminants located at that depth. The January 21 conference call also discussed profile detections to date, several proposals to revise investigation procedures as they relate to confirming bedrock refusal and disposing of monitoring well purge water, and recent EPA comment letters. The Guard, MADEP, and EPA spoke by conference call on January 27 to set screen depths for MW-35 and MW-52, and to discuss possible sources of acetone and other VOCs in the profile samples. The Guard, MADEP, and EPA met on January 28 to discuss various topics including revised screen depths for the upcoming Phase II(a) wells, deep screen depths for MW-47, final changes to the 11/30/98 Supplement to the Phase I Workplan, recent profile results, and future priorities for drilling and sampling.

**2. SUMMARY OF DATA RECEIVED**

Preliminary non-validated results are summarized in Table 3 for samples collected during January. These samples are in Sample Delivery Groups (SDGs) 93-107. When final laboratory reports and electronic data deliverables are available for these SDGs, data validation will be initiated.

**3. DELIVERABLES SUBMITTED**

Deliverables submitted during the reporting period included the following:

Weekly Progress Update (January 4-8)	January 11, 1999
Draft Field Sampling Plan for Completion of Phase I Drilling Activities	January 12, 1999
Weekly Progress Update (January 11-15)	January 18, 1999
Weekly Progress Update (January 18-22)	January 25, 1999
Change 1 to Supplement to Workplan for Completion of Phase I Activities	January 29, 1999

**4. SCHEDULED ACTIONS**

Figure 1 provides a Gantt chart based on the Final Action Plan, updated to reflect progress and proposed work. Activities scheduled for February and early March include: EPA review draft PEP Analytical Report, prepare final Phase I Workplan, continue installation of far field monitoring wells and Phase II (a) wells, begin sampling water supply wells, continue sampling Phase I wells, begin sampling far field monitoring wells, complete Demo 1 soil sampling, complete evaluation of pilot testing and remedies for Demo 1, begin sampling Phase II (a) wells, begin sampling J-3 Wetland, and complete excavation and sampling of brick-lined pits. A meeting of the Impact Area Groundwater Study Review Team has been scheduled for February 11, 1999.