

**WEEKLY PROGRESS UPDATE
FOR JANUARY 16 - JANUARY 22, 1998**

**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 16 to January 22, 1998.

1. SUMMARY OF ACTIONS TAKEN

UXO Surveys

No UXO surveys were performed during this period.

Drilling

One drill rig is installing MW-5M2, which will be screened from 210-215 feet below ground surface (bgs). The second Barber Rig has drilled to 50 feet bgs at MW-3D.

Samples

Groundwater samples were collected from monitoring wells MW-1M1, MW-2M1, MW-2M2, and MW-18M1. Soil samples were collected at 10 foot intervals during the advancement of the boring for MW-3D. Soil samples were collected from 0-6" at Areas 5, 12, and 13. Surface water and sediment samples were collected at Areas 26, 28, 29, 32, 35, and 36.

Water Level Measurements

The next synoptic round of water level measurements is scheduled for March 31, 1998.

Plans and Reports

NGB submitted the final version of the Area 5 FSP on January 20, 1998. NGB received EPA comments on the Draft Storm Water FSP, and the Gun Position portion of the Draft Gun and Mortar Positions FSP, during the January 22 technical meeting. These will be documented in a memorandum of resolution and the FSPs finalized based on the comments.

Meetings

A technical meeting with EPA, MADEP, and USGS was convened January 22, 1997. The next IAGS Review Team meeting is scheduled for January 28 at 6:00 pm at the Bourne Best Western, with a pre-meeting for citizen members of the Review Team at 5:30 pm to discuss risk assessment consulting. The primary topics proposed for the January 28 meeting are: 1) an update on groundwater and soil results from recent sampling; 2) a general discussion of the fate and

transport of explosive compounds in soil and groundwater; 3) an update on plans for disposal of excavated munitions; and 4) general discussion of issues of concern.

2. SUMMARY OF DATA RECEIVED

Preliminary non-validated data that were received during the reporting period for explosives analyses are presented in Table 1 for soil samples and Table 2 for sediment samples. No groundwater data were received during this reporting period. Results from soil samples were as follows:

Explosives were detected by the CRREL Method in two soil samples collected from 0-0.5 feet bgs in Area 5.

Explosives were detected by the CRREL Method in three soil samples collected from 1.5-2.0 feet bgs in Area 6.

Explosives were detected by the CRREL Method in three soil samples collected from 40, 70, and 90 feet bgs at MW-26.

Results from sediment samples were as follows:

Explosives were detected by the CRREL Method in two sediment samples collected from 0-0.5 feet bgs at Area 27 (Round Swamp).

Note that the sample numbers contained in Table 2 do not match the numbers in the draft FSP, due to a change in sample naming for the ponds and swamps. The final FSP containing revised sampling maps for the ponds and swamps will be provided within the next week.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period included the following:

Weekly Progress Update (January 9 - January 15, 1998)	January 16, 1998
Final Field Sampling Plan for Area 5	January 20, 1998

4. SCHEDULED ACTIONS

During the next week, well drilling and installation will continue at monitoring wells MW-5M, MW-19D and MW-3D. Monitoring well development will continue at MW-7M, MW-13S, MW-13D and MW-26S. Groundwater sampling will continue at monitoring well locations. Soil sampling will continue at grid locations in Areas 12, 15, 16, 17, and 18. Sediment and surface water sampling will continue at ponds and swamps. Monitoring well development will continue at completed monitoring well locations.

Table 1. Preliminary (non-validated) Results for Explosives in Soil Samples				
Sample ID	Location	Sample Depth (feet bgs)	Method	Compound
B05AAA	Area 5 Grid A	0-0.5	CRREL	RDX/HMX
B05BAA	Area 5 Grid B	0-0.5	CRREL	ND
B05CAA	Area 5 Grid C	0-0.5	CRREL	ND
B05FAA	Area 5 Grid F	0-0.5	CRREL	TNT/DNT
B05PAA	Area 5 Grid P	0-0.5	CRREL	ND
B06CBA	Area 6 Grid C	1.5-2.0	CRREL	TNT/DNT
BO6DBA	Area 6 Grid D	1.5-2.0	CRREL	TNT/DNT
BO6EBA	Area 6 Grid E	1.5-2.0	CRREL	RDX/HMX
S26DEA	MW-26 Boring	30	CRREL	ND
S26DFA	MW-26 Boring	40	CRREL	RDX/HMX
S26DGA	MW-26 Boring	50	CRREL	ND
S26DHA	MW-26 Boring	60	CRREL	ND
S26DIA	MW-26 Boring	70	CRREL	RDX/HMX
S26DJA	MW-26 Boring	80	CRREL	ND
S26DKA	MW-26 Boring	90	CRREL	RDX/HMX
S26DLA	MW-26 Boring	100	CRREL	ND
S26DMA	MW-26 Boring	110	CRREL	ND
S26DNA	MW-26 Boring	120	CRREL	ND
S26DOA	MW-26 Boring	130	CRREL	ND
S26DPA	MW-26 Boring	140	CRREL	ND

Table 1 Acronyms & Abbreviations:

CRREL - Cold Regions Research Environmental Laboratory colorimetric test

ND - No Detected Explosives Compounds

TNT/DNT - Detected Explosive Compounds using the TNT/DNT Screen

RDX/HMX - Detected Explosive Compounds using the RDX/HMX Screen

Table 2. Preliminary (non-validated) Results for Explosives in Sediment Samples				
Sample ID	Location	Sample Depth (feet bgs)	Method	Compound
D08AAA	Area 8 (Succonsette) Sample A	0-0.5	CRREL	ND
D08BAA	Area 8 (Succonsette) Sample B	0-0.5	CRREL	ND
D08CAA	Area 8 (Succonsette) Sample C	0-0.5	CRREL	ND
D26AAA	Area 26 (Deep Bottom) Sample A	0-0.5	CRREL	ND
D26BAA	Area 26 (Deep Bottom) Sample B	0-0.5	CRREL	ND
D26DAA	Area 26 (Deep Bottom) Sample D	0-0.5	CRREL	ND
D27AAA	Area 27 (Round) Sample A	0-0.5	CRREL	RDX/HMX
D27BAA	Area 27 (Round) Sample B	0-0.5	CRREL	RDX/HMX
D27CAA	Area 27 (Round) Sample C	0-0.5	CRREL	ND
D30AAA	Area 30 (Donnelly) Sample A	0-0.5	CRREL	ND
D30BAA	Area 30 (Donnelly) Sample B	0-0.5	CRREL	ND
D30CAA	Area 30 (Donnelly) Sample C	0-0.5	CRREL	ND
D30DAA	Area 30 (Donnelly) Sample D	0-0.5	CRREL	ND
D31AAA	Area 31 (Little Halfway) Sample A	0-0.5	CRREL	ND
D31BAA	Area 31 (Little Halfway) Sample B	0-0.5	CRREL	ND
D34BAA	Area 34 (Bailey's) Sample B	0-0.5	CRREL	ND
D34BAD	Area 34 (Bailey's) Sample B (dup)	0-0.5	CRREL	ND
D34CAA	Area 34 (Bailey's) Sample C	0-0.5	CRREL	ND

Table 2 Acronyms & Abbreviation:

CRREL - Cold Regions Research Environmental Laboratory colorimetric test

ND - No Detected Explosive Compounds

RDX/HMX - Detected Explosive Compounds using the RDX/HMX Screen