

**WEEKLY PROGRESS UPDATE
FOR JANUARY 30 - FEBRUARY 5, 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 30 to February 5, 1998.

1. SUMMARY OF ACTIONS TAKEN

UXO Surveys

No UXO surveys were performed during this period.

Drilling

One drill rig has drilled to 212 feet bgs at MW-19D. The second Barber Rig has drilled to 170 feet bgs at MW-3D.

Samples

Groundwater samples were collected from monitoring wells MW-7M2, MW-26S, FS-12/03WT0003, LF-1/BB-703, CS-1/WT-711, and CS-1/WT-712. Soil samples (in the unsaturated zone) and groundwater profiling samples (in the saturated zone) were collected at 10 foot intervals during the advancement of the borings for MW-3D and MW-19D. Soil samples were collected using a hand auger from 18-24" at Areas 8, 11, 12, 13, 15, 19, 20, 21, 22.

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 Storm Water FSP on February 5, 1998. Additional comments regarding the Final Gun and Mortar Positions FSP were provided by EPA during the weekly technical meeting, and NGB is preparing the final version of this document.

Meetings

A technical meeting with EPA and MADEP was convened on February 4, 1998. The next IAGS Review Team meeting is scheduled for Monday, March 2, at the Forestdale School.

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. Results from soil samples were as follows:

Explosive compounds were detected by the CRREL Screening Method in one soil sample collected from 1.5-2.0 feet bgs in Area 11.

Explosive compounds were detected by the CRREL Screening Method in one soil sample collected from 0-0.5 feet bgs in Area 15.

Explosive compounds were detected by the CRREL Screening Method in three soil samples collected from 1.5-2.0 feet bgs in Area 21 (Mortar Position 5).

Explosive compounds were detected by the CRREL Screening Method in three soil samples collected from 1.5-2.0 feet bgs in Area 20 (Mortar Position 6).

Explosive compounds were detected by the CRREL Screening Method in two soil samples collected from 1.5-2.0 feet bgs in Area 19 (Mortar Position 8).

Results from sediment samples were as follows:

Explosive compounds were detected by the CRREL Screen Method in one sediment sample collected from 0-0.5 feet bgs in Area 43 (Upper Pond).

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period included the following:

Weekly Progress Update (January 23 to January 29, 1998)
Final Storm Water FSP

January 30, 1998
February 5, 1998

4. SCHEDULED ACTIONS

During the next week, well drilling and installation will continue at monitoring wells MW-19D and MW-3D. Groundwater sampling will continue at monitoring well locations MW-5S, MW-5D, FS-12/MW0070, FS-12/MW0071, and FS-12/MW0080. Sediment and surface water sampling will continue at ponds and swamps in Areas 33, 37, 39, and 40.

Table 1. Preliminary (non-validated) Results for Explosives in Soil Samples				
Sample ID	Location	Sample Depth (feet bgs)	Method	Compound
B03IBA	Area 3 Grid I	1.5-2.0	CRREL	ND
B03OBA	Area 3 Grid O	1.5-2.0	CRREL	ND
B03OBD	Area 3 Grid O (dup)	1.5-2.0	CRREL	ND
B07ABA	Area 7 Grid A	1.5-2.0	CRREL	ND
B07BBA	Area 7 Grid B	1.5-2.0	CRREL	ND
B07CBA	Area 7 Grid C	1.5-2.0	CRREL	ND
B07CBD	Area 7 Grid C (dup)	1.5-2.0	CRREL	ND
B07DBA	Area 7 Grid D	1.5-2.0	CRREL	ND
B07EBA	Area 7 Grid E	1.5-2.0	CRREL	ND
B07EBD	Area 7 Grid E (dup)	1.5-2.0	CRREL	ND
B07HBA	Area 7 Grid H	1.5-2.0	CRREL	ND
B08ABA	Area 8 Grid A	1.5-2.0	CRREL	ND
B08BBA	Area 8 Grid B	1.5-2.0	CRREL	ND
B08CBA	Area 8 Grid C	1.5-2.0	CRREL	ND
B08DBA	Area 8 Grid D	1.5-2.0	CRREL	ND
B08EBA	Area 8 Grid E	1.5-2.0	CRREL	ND
B08EBD	Area 8 Grid E (dup)	1.5-2.0	CRREL	ND
B11ABA	Area 11 Grid A	1.5-2.0	CRREL	TNT/DNT RDX/HMX
B11BBA	Area 11 Grid B	1.5-2.0	CRREL	ND
B11CBA	Area 11 Grid C	1.5-2.0	CRREL	ND
B11CBD	Area 11 Grid C (dup)	1.5-2.0	CRREL	ND
B11DBA	Area 11 Grid D	1.5-2.0	CRREL	ND
B11EBA	Area 11 Grid E	1.5-2.0	CRREL	ND
B15ABA	Area 15 Grid A	1.5-2.0	CRREL	ND
B15BBA	Area 15 Grid B	1.5-2.0	CRREL	ND
B15CAA	Area 15 Grid C	1.5-2.0	CRREL	RDX/HMX
BM5ABA	Area 21 (MP-5) Grid A	1.5-2.0	CRREL	RDX/HMX

Table 1. Preliminary (non-validated) Results for Explosives in Soil Samples				
Sample ID	Location	Sample Depth (feet bgs)	Method	Compound
BM5BBA	Area 21 (MP-5) Grid B	1.5-2.0	CRREL	ND
BM5BBD	Area 21 (MP-5) Grid B (dup)	1.5-2.0	CRREL	ND
BM5CBA	Area 21 (MP-5) Grid C	1.5-2.0	CRREL	RDX/HMX
BM5DBA	Area 21 (MP-5) Grid D	1.5-2.0	CRREL	ND
BM5EBA	Area 21 (MP-5) Grid E	1.5-2.0	CRREL	TNT/DNT
BM6ABA	Area 20 (MP-6) Grid A	1.5-2.0	CRREL	ND
BM6ABD	Area 20 (MP-6) Grid A (dup)	1.5-2.0	CRREL	RDX/HMX
BM6BBA	Area 20 (MP-6) Grid B	1.5-2.0	CRREL	TNT/DNT
BM6CBA	Area 20 (MP-6) Grid C	1.5-2.0	CRREL	RDX/HMX
BM8ABA	Area 19 (MP-8) Grid A	1.5-2.0	CRREL	RDX/HMX
BM8BBA	Area 19 (MP-8) Grid B	1.5-2.0	CRREL	TNT/DNT
BM8CBA	Area 19 (MP-8) Grid C	1.5-2.0	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
D43AAA	Area 43 (Upper Pond) Sample A	0-0.5	CRREL	ND
D43BAA	Area 43 (Upper Pond) Sample B	0-0.5	CRREL	ND
D43CAA	Area 43 (Upper Pond) Sample C	0-0.5	CRREL	ND
D43DAA	Area 43 (Upper Pond) Sample D	0-0.5	CRREL	ND
D43EAA	Area 43 (Upper Pond) Sample E	0-0.5	CRREL	ND
D43FAA	Area 43 (Upper Pond) Sample F	0-0.5	CRREL	ND
D43GAA	Area 43 (Upper Pond) Sample G	0-0.5	CRREL	RDX/HMX

Table 2. Preliminary (non-validated) Results for Explosives in Sediment Samples				
Sample ID	Location	Sample Depth (feet bgs)	Method	Compound
D43HAA	Area 43 (Upper Pond) Sample H	0-0.5	CRREL	ND

Table 2 Acronyms & Abbreviations:

CRREL - Cold Regions Research Environmental Laboratory colorimetric test

ND - No Detected Explosive Compounds

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