

**WEEKLY PROGRESS UPDATE
FOR FEBRUARY 6 - FEBRUARY 12, 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 February 6 to February 12, 1998.

1. SUMMARY OF ACTIONS TAKEN

UXO Surveys

No UXO surveys were performed during this period.

Drilling

One drill rig has drilled to 272 feet bgs at MW-19D. The second Barber Rig has drilled to 260 feet bgs at MW-3D.

Samples

Groundwater samples were collected from monitoring wells MW-5M1, MW-5S, FS-12/MW-70 (added for MW-30 response), FS-12/MW-71 (added for MW-30 response), FS-12/GMW04 (added for tetryl detection several years ago by IRP), and 95-14. 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. Surface water and sediment samples were collected from Doughnut Pond, Snake Pond, Great Pond, and By-pass Bog.

Water Level Measurements

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

Plans and Reports

NGB has submitted the final version of Gun and Mortar Positions FSP.

Meetings

A technical meeting with EPA and MADEP was convened on February 12, 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, Table 2 for sediment samples, Table 3 for groundwater samples, and Table 4 for surface water. Results from soil samples were as follows:

Explosive compounds were detected by the CRREL Screening Method in one soil sample collected from 0.0-0.5 feet bgs in Area 18.

Explosive compounds were detected by the CRREL Screening Method in four soil samples collected from 0-0.5 feet bgs in Area 17.

Results from sediment samples were as follows:

Explosive compounds were detected by the CRREL Screening Method in one sediment sample collected from 0-0.5 feet bgs in Area 37 (By-pass Bog).

Results from groundwater samples were as follows:

Explosive compounds were detected by EPA Method 8330 in two groundwater samples collected from monitoring wells (FS-12/WT13 and MW-2M2).

Results from surface water samples were as follows:

Explosive compounds were detected by EPA Method 8330 in three surface water samples collected from Opening Pond.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period included the following:

Weekly Progress Update (January 30 to February 5, 1998)	February 6, 1998
Monthly Progress Report (January, 1998)	February 10, 1998
Final Gun and Morter Position FSP	February 10, 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-5D, MW-5M2, CS-19/MW0001, RW-1, and RW-2.

Table 1. Preliminary (non-validated) Results for Explosives in Soil Samples				
Sample ID	Location	Sample Depth (feet bgs)	Method	Compound
BGHAAA	Area 16 (GP-16) Grid A	0.0-0.5	8330	ND
BGHAAD	Area 16 (GP-16) Grid A (dup)	0.0-0.5	8330	ND
BGHBAA	Area 16 (GP-16) Grid B	0.0-0.5	8330	ND
BGHDAA	Area 16 (GP-16) Grid D	0.0-0.5	8330	ND
BGHEAA	Area 16 (GP-16) Grid E	0.0-0.5	8330	ND
BGHFAA	Area 16 (GP-16) Grid F	0.0-0.5	8330	ND
BGHGAA	Area 16 (GP-16) Grid G	0.0-0.5	8330	ND
BGHHAA	Area 16 (GP-16) Grid H	0.0-0.5	8330	ND
BGHIAA	Area 16 (GP-16) Grid I	0.0-0.5	8330	ND
BGHLAA	Area 16 (GP-16) Grid L	0.0-0.5	8330	ND
BGHMAA	Area 16 (GP-16) Grid M	0.0-0.5	8330	ND
BGHMAD	Area 16 (GP-16) Grid M (dup)	0.0-0.5	8330	ND
BGHNAA	Area 16 (GP-16) Grid N	0.0-0.5	CRREL	ND
BGLBAA	Area 18 (GP-18) Grid B	0.0-0.5	8330	ND
BGLIAA	Area 18 (GP-18) Grid I	0.0-0.5	CRREL	TNT/DNT
BGMMAA	Area 17 (GP-7) Grid M	0.0-0.5	CRREL	TNT/DNT
BGMNAA	Area 17 (GP-7) Grid N	0.0-0.5	CRREL	TNT/DNT
BGMNAD	Area 17 (GP-7) Grid N (dup)	0.0-0.5	CRREL	TNT/DNT
BGMOAA	Area 17 (GP-7) Grid O	0.0-0.5	CRREL	TNT/DNT
B05AAA	Area 5 Grid A	0-0.5	8330	ND
B05EAA	Area 5 Grid E	0-0.5	8330	ND
B05FAA	Area 5 Grid F	0-0.5	8330	ND
B05JAA	Area 5 Grid J	0-0.5	8330	ND
B05QAA	Area 5 Grid Q	0-0.5	8330	ND
B12AAA	Area 12 Grid A	0-0.5	8330	ND
B13CBA	Area 13 Grid C	1.5-2.0	CRREL	ND
B13DBA	Area 13 Grid D	1.5-2.0	CRREL	ND

Table 1. Preliminary (non-validated) Results for Explosives in Soil Samples				
Sample ID	Location	Sample Depth (feet bgs)	Method	Compound
B13EBA	Area 13 Grid C	1.5-2.0	CRREL	ND
B13GAA	Area 13 Grid G	0-0.5	8330	ND
B13IAA	Area 13 Grid I	0-0.5	8330	ND
B13JAA	Area 13 Grid A	0-0.5	8330	ND

Table 1 Acronyms & Abbreviations:

CRREL - Cold Regions Research Environmental Laboratory colorimetric test

8330 - EPA Method 8330

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
D25BAA	Area 25 (Rod & Gun) Sample B	0-0.5	8330	ND
D26FAA	Area 26 (Cranberry Bog) Sample F	0-0.5	8330	ND
D27AAA	Area 27 (Round Swamp) Sample A	0-0.5	8330	ND
D27BAA	Area 27 (Round Swamp) Sample B	0-0.5	8330	ND
D29AAA	Area 29 (Ox Pond) Sample A	0-0.5	8330	ND
D29BAA	Area 29 (Ox Pond) Sample B	0-0.5	8330	ND
D29CAA	Area 29 (Ox Pond) Sample C	0-0.5	8330	ND
D36AAA	Area 36 (Opening Pond) Sample A	0-0.5	8330	ND
D36CAA	Area 36 (Opening Pond) Sample C	0-0.5	8330	ND
D37AAA	Area 37 (By-Pass Bog) Sample A	0-0.5	CRREL	ND
D37BAA	Area 37 (By-Pass Bog) Sample B	0-0.5	CRREL	ND
D37CAA	Area 37 (By-Pass Bog) Sample C	0-0.5	CRREL	RDX/HMX
D37CAD	Area 37 (By-Pass Bog) Sample C(dup)	0-0.5	CRREL	ND

Table 2 Acronyms & Abbreviations:

ND - No Detected Explosive Compounds

8330 - EPA Method 8330

CRREL - Cold Regions Research Environmental Laboratory colorimetric test

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

Table 3. Preliminary (non-validated) Results for Explosives in Groundwater				
Sample ID	Location	Sample Depth	Method	Compound
W01M1A	MW-1M1	220-225	8330	ND
W02M1A	MW-2M1	212-217	8330	ND
W02M2A	MW-2M2	170-175	8330	RDX>HA
W07MMA	MW-7M1	170-175	8330	ND
W13DDA	MW-13D	220-225	8330	ND
W18M1A	MW-18M1	171-176	8330	ND
W18M2A	MW-18M2	107-112	8330	ND
WF08XA	FS12-WT8	57-67	8330	ND
WT10XA	FS12-WT10	84-94	8330	ND
WF13XA	FS12-WT13	92-102	8330	RDX>HA NB 4AmDNT 2,4DANT NG
WF22XA	FS12-GMW22	112-117	8330	ND

Table 3 Acronyms & Abbreviations:

8330 - EPA Method 8330

ND - No Detected Explosive Compounds

NG - Nitroglycerin

RDX - Hexahydro-1,3,5-trinitro-1,3,5-triazine

HA - Health Advisory

NB - Nitrobenzene

4AmDNT- 4-Amino-2,6-dinitrotoluene

2,4DANT - 2,4-Diamino-6-nitrotoluene

Table 4. Preliminary (non-validated) Results for Explosives in Surface Water			
Sample ID	Location	Method	Compound
P08AAA	Area 08 (Succonsette Pond) Sample A	8330	ND
P08BAA	Area 08 (Succonsette Pond) Sample B	8330	ND

Table 4. Preliminary (non-validated) Results for Explosives in Surface Water			
Sample ID	Location	Method	Compound
P08CAA	Area 08 (Succonsette Pond) Sample C	8330	ND
P25BAA	Area 25 (Rod & Gun N. Pond) Sample B	8330	ND
P25BAD	Area 25 (Rod & Gun N. Pond) Sample B (dup)	8330	ND
P25CAA	Area 25 (Rod & Gun N. Pond) Sample C	8330	ND
P26AAA	Area 26 (Deep Bottom Pond) Sample A	8330	ND
P26BAA	Area 26 (Deep Bottom Pond) Sample B	8330	ND
P26CAA	Area 26 (Deep Bottom Pond) Sample C	8330	ND
P26DAA	Area 26 (Deep Bottom Pond) Sample D	8330	ND
P26EAA	Area 26 (Cranbery Bog) Sample E	8330	ND
P26FAA	Area 26 (Cranbery Bog) Sample F	8330	ND
P26GAA	Area 26 (Cranbery Bog) Sample G	8330	ND
P27AAA	Area 27 (Round Swamp) Sample A	8330	ND
P27BAA	Area 27 (Round Swamp) Sample B	8330	ND
P28AAA	Area 28 (Grassy Pond) Sample A	8330	ND
P28AAD	Area 28 (Grassy Pond) Sample A (dup)	8330	ND
P28BAA	Area 28 (Grassy Pond) Sample B	8330	ND
P28CAA	Area 28 (Grassy Pond) Sample C	8330	ND
P29AAA	Area 29 (Ox Pond) Sample A	8330	ND
P29BAA	Area 29 (Ox Pond) Sample B	8330	ND
P29CAA	Area 29 (Ox Pond) Sample C	8330	ND
P30AAA	Area 30 (Donnelly's Pond) Sample A	8330	ND
P30BAA	Area 30 (Donnelly's Pond) Sample B	8330	ND
P30CAA	Area 30 (Donnelly's Pond) Sample C	8330	ND
P31AAA	Area 31 (Little Halfway Pond) Sample A	8330	ND
P31BAA	Area 31 (Little Halfway Pond) Sample B	8330	ND
P32AAA	Area 32 (Raccoon Swamp) Sample A	8330	ND
P32BAA	Area 32 (Raccoon Swamp) Sample B	8330	ND

Table 4. Preliminary (non-validated) Results for Explosives in Surface Water			
Sample ID	Location	Method	Compound
P34BAA	Area 34 (Bailey's Pond) Sample B	8330	ND
P34BAD	Area 34 (Bailey's Pond) Sample B(dup)	8330	ND
P34CAA	Area 34 (Bailey's Pond) Sample C	8330	ND
P35AAA	Area 35 (Gibbs Pond) Sample A	8330	ND
P35BAA	Area 35 (Gibbs Pond) Sample B	8330	ND
P36AAA	Area 36 (Opening Pond) Sample A	8330	PETN
P36BAA	Area 36 (Opening Pond) Sample B	8330	PETN
P36CAA	Area 36 (Opening Pond) Sample C	8330	PETN

Table 3 Acronyms & Abbreviations:

8330 - EPA Method 8330

ND - No Detected Explosive Compounds

PETN -Pentaerythritol tetranitrate