WEEKLY PROGRESS UPDATE FOR MARCH 13 - MARCH 19, 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 March 13 to March 19, 1998.

1. SUMMARY OF ACTIONS TAKEN

UXO Surveys

No UXO survey activities occurred during this reporting period.

Drilling

No drilling activities occurred during this reporting period.

Samples

Soil samples were collected from 1.5-2.0 feet below ground surface (bgs) from grids in Areas 5, 12, 16, 17, and 18. Soil samples were collected from 0.0-0.5 feet bgs from grids in Areas 16 and 18.

Water Level Measurements

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

Plans and Reports

All Final FSPs are complete at this time. Revision pages for the Groundwater FSP are currently being prepared.

Meetings

A technical meeting was convened with EPA and MADEP on March 19 to discuss progress on the project. The next IAGS Review Team meeting is scheduled for March 31, 1998 at the Bourne Best Western at 6:00 pm.

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 groundwater samples. Explosive compounds were detected by the CRREL method in soil from a depth of 1.5 to 2.0 feet bgs in seven samples from Area 16, three samples from Area 20, one sample from Area 18, one sample in Area 1, and six samples from Area 5. The one sample from Area 1 and five of the samples from Area 5 which had CRREL detections were analyzed for explosives using EPA Method 8330 and had no compounds detected. Other soil samples with CRREL detections were being analyzed by EPA

Method 8330 but results were not yet available. Explosive compounds were detected by EPA Method 8330 in groundwater samples collected from monitoring wells MW-19S and MW-19D.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period included the following:

Weekly Progress Update (March 6 to March 12)

March 13, 1998

4. SCHEDULED ACTIONS

During the next week, soil sampling will be performed at 1.5-2.0 feet bgs at various locations for which complete data on the upper soil interval are available.

Table 1. Preliminary (non-validated) Results for Explosives in Soil Samples				
Sample ID	Location	Sample Depth (feet bgs)	Method	Compound
BG5FAA	Area 5 grab from excavated soil at the munitions pit	0-0.5	8330	ND
BG5EAA	Area 5 grab from bottom of the munitions pit	0-0.5	8330	ND
BGHABA	Area 16 (GP-16) Grid A	1.5-2	CRREL	RDX/HMX
BGHBBA	Area 16 (GP-16) Grid B	1.5-2	CRREL	TNT/DNT
BGHDBA	Area 16 (GP-16) Grid D	1.5-2	CRREL	TNT/DNT
BGHEBA	Area 16 (GP-16) Grid E	1.5-2	CRREL	TNT/DNT
BGHFBA	Area 16 (GP-16) Grid F	1.5-2	CRREL	TNT/DNT
BGHGBA	Area 16 (GP-16) Grid G	1.5-2	CRREL	ND
ВСННВА	Area 16 (GP-16) Grid H	1.5-2	CRREL	TNT/DNT
BGHIBA	Area 16 (GP-16) Grid I	1.5-2	CRREL	ND
BGHJBA	Area 16 (GP-16) Grid J	1.5-2	CRREL	ND
BGHKBA	Area 16 (GP-16) Grid K	1.5-2	CRREL	ND
BGHLBA	Area 16 (GP-16) Grid L	1.5-2	CRREL	ND
BGHMBA	Area 16 (GP-16) Grid M	1.5-2	CRREL	TNT/DNT
BGLABA	Area 18 (GP-18) Grid A	1.5-2	CRREL	ND
BGLBBA	Area 18 (GP-18) Grid B	1.5-2	CRREL	RDX/HMX
BGLCBA	Area 18 (GP-18) Grid C	1.5-2	CRREL	ND

Table 1. Preliminary (non-validated) Results for Explosives in Soil Samples				
Sample ID	Location	Sample Depth (feet bgs)	Method	Compound
BGLDBA	Area 18 (GP-18) Grid D	1.5-2	CRREL	ND
BM3ABA	Area 20 (MP-3) Grid A	1.5-2	CRREL	TNT/DNT
BM3ABD	Area 20 (MP-3) Grid A (dup)	1.5-2	CRREL	TNT/DNT
BM3BBA	Area 20 (MP-3) Grid B	1.5-2	CRREL	TNT/DNT
ВМ3СВА	Area 20 (MP-3) Grid C	1.5-2	CRREL	ND
BM3DBA	Area 20 (MP-3) Grid D	1.5-2	CRREL	TNT/DNT
ВМ3ЕВА	Area 20 (MP-3) Grid E	1.5-2	CRREL	ND
B01IBA	Area 1 Grid I	1.5-2	CRREL	ND
B01JBA	Area 1 Grid J	1.5-2	8330	ND
B01JBA	Area 1 Grid J	1.5-2	CRREL	TNT/DNT
B01KBA	Area 1 Grid K	1.5-2	CRREL	ND
B04GBA	Area 4 Grid G	1.5-2	CRREL	ND
B05ABA	Area 5 Grid A	1.5-2	8330	ND
B05ABA	Area 5 Grid A	1.5-2	CRREL	RDX/HMX
B05ABD	Area 5 Grid A (dup)	1.5-2	8330	ND
B05ABD	Area 5 Grid A (dup)	1.5-2	CRREL	ND
B05BBA	Area 5 Grid B	1.5-2	8330	ND
B05BBA	Area 5 Grid B	1.5-2	CRREL	RDX/HMX
B05CBA	Area 5 Grid C	1.5-2	CRREL	ND
B05DBA	Area 5 Grid D	1.5-2	CRREL	ND
B05EBA	Area 5 Grid E	1.5-2	8330	ND
B05EBA	Area 5 Grid E	1.5-2	CRREL	TNT/DNT
B05HBA	Area 5 Grid H	1.5-2	8330	ND
B05HBA	Area 5 Grid H	1.5-2	CRREL	RDX/HMX
B05IBA	Area 5 Grid I	1.5-2	8330	ND
B05IBA	Area 5 Grid I	1.5-2	CRREL	TNT/DNT
B05JBA	Area 5 Grid J	1.5-2	8330	ND

Table 1. Preliminary (non-validated) Results for Explosives in Soil Samples				
Sample ID	Location	Sample Depth (feet bgs)	Method	Compound
B05JBA	Area 5 Grid J	1.5-2	CRREL	RDX/HMX
B05KBA	Area 5 Grid K	1.5-2	CRREL	TNT/DNT
B05LBA	Area 5 Grid L	1.5-2	CRREL	ND
B05MBA	Area 5 Grid M	1.5-2	CRREL	ND
B05NBA	Area 5 Grid N	1.5-2	CRREL	ND
B05QBA	Area 5 Grid Q	1.5-2	CRREL	ND
B12EBA	Area 12 Grid E	1.5-2	CRREL	ND

Table 1 Acronyms & Abbreviations:

CRREL - Cold Regions Research Environmental Laboratory colorimetric test

8330 - EPA Method 8330

ND - No Detected Explosives Compounds

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

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

Table 2. Preliminary (non-validated) Results for Explosives in Groundwater					
Sample ID	Location	Samp le Depth	Method	Compound	
W19SSA	Monitoring Well MW-19S	38-48	8330	HMX <ha RDX>HA TNT>HA 4AmDNT 2AmDNT</ha 	
W19DDA	Monitoring Well MW-19D	293-298	8330	RDX <ha< td=""></ha<>	
W03DDA	Monitoring Well MW-03D	262-267	8330	ND	
W03SSA	Monitoring Well MW-03S	44-54	8330	ND	
WRW3XA	Monitoring Well RW-3	-	8330	ND	

Table 2 Acronyms & Abbreviations:

8330 - EPA Method 8330

ND - No Detected Explosive Compounds

HA - Health Advisory

TNT - 2,4,6-Trinitrotoluene

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

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

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

HMX - Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine