WEEKLY PROGRESS UPDATE
FOR MAY 3 - MAY 7, 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 May 3 - May 7, 1999.

1. SUMMARY OF ACTIONS TAKEN

Development and sampling of new wells continued during the week. Subsurface soil sampling in Demo 1 was started and completed to a depth of 15 feet. Samples collected during the week are summarized in Table 1.

The Guard, EPA, and MADEP met on May 6 to discuss technical issues, including:

- Laboratory data for MW-59 shallow groundwater and profile samples, including a discussion of the detection of TNT in the profile sample but not in the groundwater sample. Additional information to be collected to address this issue includes: the shallow well will be resampled for explosives; the remnants of the profile samples will be reanalyzed; the boring log will be examined for evidence of a different soil type at the top of the aquifer; and a shallow soil sample will be collected and the "local background sample" will be reviewed.

- The draft Response Plan for Demo 1, to locate upgradient and lateral extent of groundwater contamination.

- The Evaluation of Remedial Technologies for Demo 1. Revisions to address comments from the Guard are now underway. The Guard requested that the EPA consider how remedy selection and implementation would proceed, in terms of the regulatory vehicle, to help guide the determination of an appropriate funding mechanism.

- Plans for discussions of far field monitoring wells with the towns. Letters to the towns will be developed.

- Information for eight additional compounds identified by EPA as constituents of KD and U Range munitions. There was a discussion of the amounts of compounds in the munitions, any known toxicity information, and analytical methods.

- Copies of the preliminary draft Phase IIb Workplan were provided.

- Copies of the preliminary draft Phase IIa FSP for Gun and Mortar Positions were provided.

- The schedule for the next round of groundwater sampling in Arnold/Raccoon/Snake Pond area.

- A meeting scheduled for 5/18 to discuss the munitions survey plan. However, it may not be possible to perform site reconnaissance at some locations due to the presence of UXO. The army is mobilizing a team of UXO experts to inspect the 10 rounds currently identified in the Impact Area and Training Ranges, in conjunction with EPA's expert. MAARNG expects to issue a memorandum that will supplement existing procedures for managing UXO at MMR.

- Method 5035 for preservation of VOCs in soil samples.

- Potential overlap of requirements for sampling plans under Phase IIa and Phase IIb of the July 1998 SOW. The EPA indicated that where overlap appears to exist, it would be preferable to handle the requirements under Phase IIa.

- Agenda items for the next IART meeting will include: update of Raccoon Lane groundwater; update on off-base munitions; update on on-base munitions; discussion of format and timing of the IAGS reports; and update on IAGS findings and Demo 1 plan.

2. SUMMARY OF DATA RECEIVED

Preliminary non-validated results were received for samples collected over the preceding two-week period. There were no new detections of explosives.

Validated data for explosives and other analytes are being included in the monthly progress reports as data validation is completed. The monthly progress report for April included validated data for Sample Delivery Groups 94-97 and 101.

All detections of explosives and other analytes are also being summarized on maps presented about monthly, at the Impact Area Review Team meetings.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period included the following:

Preliminary Draft Phase II (b) Workplan	May 4, 1999
Preliminary Draft Phase II (a) FSP for Gun and Mortar Positions	May 6, 1999
Weekly Progress Update (April 26-April 29)	May 6, 1999

4. SCHEDULED ACTIONS

Scheduled actions for the week of May 10 are as follows. Monitoring well development and groundwater sampling will continue for the Far Field wells and Phase IIa wells. Soil sampling will commence for the KD and U Ranges.

TABLE 1
SAMPLING PROGRESS
5/3-5/7

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
ABB005FAE	FIELDQC	5/6/1999	FIELDQC	0	0
ABB007AAE	FIELDQC	5/7/1999	FIELDQC	0	0
W38M1T	FIELDQC	5/7/1999	FIELDQC	0	0
W38M2F	FIELDQC	5/7/1999	FIELDQC	0	0
W38M3T	FIELDQC	5/6/1999	FIELDQC	0	0
W38M4T	FIELDQC	5/6/1999	FIELDQC	0	0
W53M1T	FIELDQC	5/3/1999	FIELDQC	0	0
W54DDT	FIELDQC	5/5/1999	FIELDQC	0	0
W54M2T	FIELDQC	5/4/1999	FIELDQC	0	0
W36M1A	MW-36	5/5/1999	GROUNDWATER	79	89
W36M2A	MW-36	5/5/1999	GROUNDWATER	59	69
W36SSA	MW-36	5/5/1999	GROUNDWATER	0	10
W38M1A	MW-38	5/7/1999	GROUNDWATER	100	110
W38M3A	MW-38	5/6/1999	GROUNDWATER	53	63
W38M4A	MW-38	5/6/1999	GROUNDWATER	15	25
W53M1A	MW-53	5/3/1999	GROUNDWATER	100	110
W53M2A	MW-53	5/4/1999	GROUNDWATER	70	80
W53M3A	MW-53	5/4/1999	GROUNDWATER	40	50
W54DDA	MW-54	5/5/1999	GROUNDWATER	126	136
W54M2A	MW-54	5/4/1999	GROUNDWATER	58	68
W54M3A	MW-54	5/4/1999	GROUNDWATER	28	38
DW3906	GAC WATER	5/6/1999	IDW	0	0
ABB001AAA	ABB001AAA	5/5/1999	SOIL BORING	3	4
ABB001BAA	ABB001BAA	5/5/1999	SOIL BORING	4	5
ABB001CAA	ABB001CAA	5/5/1999	SOIL BORING	5	6
ABB001DAA	ABB001DAA	5/5/1999	SOIL BORING	6	7
ABB001EAA	ABB001EAA	5/5/1999	SOIL BORING	7	8
ABB001FAA	ABB001FAA	5/5/1999	SOIL BORING	8	9
ABB001GAA	ABB001GAA	5/5/1999	SOIL BORING	9	10
ABB001HAA	ABB001HAA	5/5/1999	SOIL BORING	10	11
ABB001IAA	ABB001IAA	5/5/1999	SOIL BORING	11	12
ABB001JAA	ABB001JAA	5/5/1999	SOIL BORING	12	13
ABB001KAA	ABB001KAA	5/5/1999	SOIL BORING	13	14
ABB001MAA	ABB001MAA	5/5/1999	SOIL BORING	15	16
ABB002AAA	ABB002AAA	5/5/1999	SOIL BORING	3	4
ABB002BAA	ABB002BAA	5/5/1999	SOIL BORING	4	5
ABB002CAA	ABB002CAA	5/5/1999	SOIL BORING	5	6
ABB002CAD	ABB002CA	5/5/1999	SOIL BORING	5	6
ABB002DAA	ABB002DAA	5/5/1999	SOIL BORING	6	7
ABB002EAA	ABB002EAA	5/5/1999	SOIL BORING	7	8
ABB002FAA	ABB002FAA	5/5/1999	SOIL BORING	8	9
ABB002FAD	ABB002FA	5/5/1999	SOIL BORING	8	9

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs for profile and soil boring, and feet below water table for groundwater
SED = Sample End Depth, measured in feet bgs for profile and soil boring, and feet below water table for groundwater

TABLE 1
SAMPLING PROGRESS
5/3-5/7

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
ABB002GAA	ABB002GAA	5/5/1999	SOIL BORING	9	10
ABB002HAA	ABB002HAA	5/5/1999	SOIL BORING	10	11
ABB002IAA	ABB002IAA	5/5/1999	SOIL BORING	11	12
ABB002JAA	ABB002JAA	5/5/1999	SOIL BORING	12	13
ABB002KAA	ABB002KAA	5/5/1999	SOIL BORING	13	14
ABB002LAA	ABB002LAA	5/5/1999	SOIL BORING	14	15
ABB002MAA	ABB002MAA	5/5/1999	SOIL BORING	15	16
ABB003AAA	ABB003AAA	5/6/1999	SOIL BORING	3	4
ABB003BAA	ABB003BAA	5/6/1999	SOIL BORING	4	5
ABB003CAA	ABB003CAA	5/6/1999	SOIL BORING	5	6
ABB003DAA	ABB003DAA	5/6/1999	SOIL BORING	6	7
ABB003DAD	ABB003DA	5/6/1999	SOIL BORING	6	7
ABB003EAA	ABB003EAA	5/6/1999	SOIL BORING	7	8
ABB003FAA	ABB003FAA	5/6/1999	SOIL BORING	8	9
ABB003GAA	ABB003GAA	5/6/1999	SOIL BORING	9	10
ABB003HAA	ABB003HAA	5/6/1999	SOIL BORING	10	11
ABB003IAA	ABB003IAA	5/6/1999	SOIL BORING	11	12
ABB003JAA	ABB003JAA	5/6/1999	SOIL BORING	12	13
ABB003KAA	ABB003KAA	5/6/1999	SOIL BORING	13	14
ABB003LAA	ABB003LAA	5/6/1999	SOIL BORING	14	15
ABB003MAA	ABB003MAA	5/6/1999	SOIL BORING	15	16
ABB004AAA	ABB004AAA	5/6/1999	SOIL BORING	3	4
ABB004BAA	ABB004BAA	5/6/1999	SOIL BORING	4	5
ABB004CAA	ABB004CAA	5/6/1999	SOIL BORING	5	6
ABB004DAA	ABB004DAA	5/6/1999	SOIL BORING	6	7
ABB004EAA	ABB004EAA	5/6/1999	SOIL BORING	7	8
ABB004FAA	ABB004FAA	5/6/1999	SOIL BORING	8	9
ABB004GAA	ABB004GAA	5/6/1999	SOIL BORING	9	10
ABB004HAA	ABB004HAA	5/6/1999	SOIL BORING	10	11
ABB004HAD	ABB004HA	5/6/1999	SOIL BORING	10	11
ABB004KAA	ABB004KAA	5/6/1999	SOIL BORING	13	14
ABB004LAA	ABB004LAA	5/6/1999	SOIL BORING	14	15
ABB004MAA	ABB004MAA	5/6/1999	SOIL BORING	15	16
ABB005AAA	ABB005AAA	5/6/1999	SOIL BORING	3	4
ABB005BAA	ABB005BAA	5/6/1999	SOIL BORING	4	5
ABB005BAD	ABB005BA	5/6/1999	SOIL BORING	4	5
ABB005CAA	ABB005CAA	5/6/1999	SOIL BORING	5	6
ABB005DAA	ABB005DAA	5/6/1999	SOIL BORING	6	7
ABB005EAA	ABB005EAA	5/6/1999	SOIL BORING	7	8
ABB005FAA	ABB005FAA	5/6/1999	SOIL BORING	8	9
ABB005GAA	ABB005GAA	5/6/1999	SOIL BORING	9	10
ABB005HAA	ABB005HAA	5/6/1999	SOIL BORING	10	11
ABB005HAD	ABB005HA	5/6/1999	SOIL BORING	10	11

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
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TABLE 1
SAMPLING PROGRESS
5/3-5/7

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
ABB005IAA	ABB005IAA	5/6/1999	SOIL BORING	11	12
ABB005KAA	ABB005KAA	5/6/1999	SOIL BORING	13	14
ABB005LAA	ABB005LAA	5/6/1999	SOIL BORING	14	15
ABB005MAA	ABB005MAA	5/6/1999	SOIL BORING	15	16
ABB006AAA	ABB006AAA	5/6/1999	SOIL BORING	3	4
ABB006BAA	ABB006BAA	5/5/1999	SOIL BORING	4	5
ABB006BAD	ABB006BA	5/5/1999	SOIL BORING	4	5
ABB006CAA	ABB006CAA	5/5/1999	SOIL BORING	5	6
ABB006DAA	ABB006DAA	5/5/1999	SOIL BORING	6	7
ABB006EAA	ABB006EAA	5/5/1999	SOIL BORING	7	8
ABB006FAA	ABB006FAA	5/5/1999	SOIL BORING	8	9
ABB006GAA	ABB006GAA	5/5/1999	SOIL BORING	9	10
ABB006HAA	ABB006HAA	5/5/1999	SOIL BORING	10	11
ABB006HAD	ABB006HA	5/5/1999	SOIL BORING	10	11
ABB006IAA	ABB006IAA	5/5/1999	SOIL BORING	11	12
ABB006JAA	ABB006JAA	5/5/1999	SOIL BORING	12	13
ABB006KAA	ABB006KAA	5/5/1999	SOIL BORING	13	14
ABB006LAA	ABB006LAA	5/5/1999	SOIL BORING	14	15
ABB006MAA	ABB006MAA	5/6/1999	SOIL BORING	15	16
ABB007AAA	ABB007AAA	5/7/1999	SOIL BORING	3	4
ABB007BAA	ABB007BAA	5/7/1999	SOIL BORING	4	5
ABB007CAA	ABB007CAA	5/7/1999	SOIL BORING	5	6
ABB007DAA	ABB007DAA	5/7/1999	SOIL BORING	6	7
ABB007EAA	ABB007EAA	5/7/1999	SOIL BORING	7	8
ABB007FAA	ABB007FAA	5/7/1999	SOIL BORING	8	9
ABB007GAA	ABB007GAA	5/7/1999	SOIL BORING	9	10
ABB007HAA	ABB007HAA	5/7/1999	SOIL BORING	10	11
ABB007HAD	ABB007HA	5/7/1999	SOIL BORING	10	11
ABB007IAA	ABB007IAA	5/7/1999	SOIL BORING	11	12
ABB007JAA	ABB007JAA	5/7/1999	SOIL BORING	12	13
ABB007KAA	ABB007KAA	5/7/1999	SOIL BORING	13	14
ABB007LAA	ABB007LAA	5/7/1999	SOIL BORING	14	15
ABB007MAA	ABB007MAA	5/7/1999	SOIL BORING	15	16
ABB008AAA	ABB008AAA	5/7/1999	SOIL BORING	3	4
ABB008BAA	ABB008BAA	5/7/1999	SOIL BORING	4	5
ABB008CAA	ABB008CAA	5/7/1999	SOIL BORING	5	6
ABB008DAA	ABB008DAA	5/7/1999	SOIL BORING	6	7
ABB008EAA	ABB008EAA	5/7/1999	SOIL BORING	7	8
ABB008FAA	ABB008FAA	5/7/1999	SOIL BORING	8	9
ABB008GAA	ABB008GAA	5/7/1999	SOIL BORING	9	10
ABB008HAA	ABB008HAA	5/7/1999	SOIL BORING	10	11
ABB008HAD	ABB008HA	5/7/1999	SOIL BORING	10	11
ABB008JAA	ABB008JAA	5/7/1999	SOIL BORING	13	14

Profiling methods include: Volatiles and Explosives
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ABB008LAA	ABB008LAA	5/7/1999	SOIL BORING	14	15
ABB008MAA	ABB008MAA	5/7/1999	SOIL BORING	15	16
ABB009CAA	ABB009CAA	5/6/1999	SOIL BORING	5	6
ABB009DAA	ABB009DAA	5/6/1999	SOIL BORING	6	7
ABB009EAA	ABB009EAA	5/6/1999	SOIL BORING	7	8
ABB009FAA	ABB009FAA	5/6/1999	SOIL BORING	8	9
ABB009FAD	ABB009FA	5/6/1999	SOIL BORING	8	9
ABB009GAA	ABB009GAA	5/6/1999	SOIL BORING	9	10
ABB009HAA	ABB009HAA	5/6/1999	SOIL BORING	10	11
ABB009IAA	ABB009IAA	5/6/1999	SOIL BORING	11	12
ABB009JAA	ABB009JAA	5/6/1999	SOIL BORING	12	13
ABB009KAA	ABB009KAA	5/6/1999	SOIL BORING	13	14
ABB009LAA	ABB009LAA	5/6/1999	SOIL BORING	14	15
ABB009MAA	ABB009MAA	5/6/1999	SOIL BORING	15	16

Profiling methods include: Volatiles and Explosives
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