

**WEEKLY PROGRESS UPDATE
FOR MARCH 1 - MARCH 5, 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 March 1 - 5, 1999.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of March 5 is summarized in Table 1. Groundwater profile samples collected during the week are summarized in Table 2 (sample type = "profile"). Resampling of Phase I wells continued. Wells that were resampled during the week are summarized in Table 2 (sample type = "groundwater"). Soil sampling in Demo 1 is still on hold due to standing water at many of the sampling locations.

Table 1. Drilling Progress as of March 5, 1999				
Boring	Purpose	Total Depth (ft bgs)	Depth BWT (ft)	Completed Screen (ft bgs)
MW-38	Phase IIa well downgradient of MW-1	130	10	
MW-54a	Far field monitoring well upgradient of LRWS-12	315	210	
MW-45	Phase IIa well upgradient of WT-13	170	78	
MW-42	Phase IIa well downgradient of MW-23	239	172	166-176 186-196 206-216
MW-59	Phase IIa well upgradient of MW-2M2	233	97	128-138 150-160 165-170
MW-55a	Far field monitoring well upgradient of LRWS-12	360	230	
MW-50b	Far field monitoring well upgradient of 95-6	247	128	177-187 207-217 237-247
bgs = below ground surface BWT = below water table				

The Guard, EPA, MADEP, and TRC spoke by conference call on March 1 to select screen depths for MW-59. The Guard and EPA met in Boston on March 2 to discuss the UXO survey. The Guard, EPA, MADEP, and TRC met on March 4 to discuss various topics including the drilling schedule; location of MW-36 and the G Range water table well; first three screen depths for MW-55; future sampling in offsite residential areas; excavation of the brick-lined pits; replacements for galvanized LRWS wells; and status of evaluating analytical blanks. A meeting of the Impact Area Review Team was convened by EPA on March 4.

2. SUMMARY OF DATA RECEIVED

Preliminary non-validated results are summarized in Table 3 for samples collected over the preceding two-week period. Some results in Table 3 where explosives were detected have been confirmed non-detect using Photo Diode Array (PDA) data. The confirmed non-detects include RS17XA, G54DAA, G54DBA, G59MEA, and deeper G59 profile samples.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period included the following:

Weekly Progress Update (February 22-26)
Quality Assurance/Quality Control Plan Addendum

March 2, 1999
March 2, 1999

4. SCHEDULED ACTIONS

Scheduled actions for the week of March 8 are as follows. Drilling will continue at MW-54a, MW-45, and MW-38, and monitoring wells will be completed at MW-55. Drilling will commence at MW-36, MW-53b, MW-55b, and MW-37. Groundwater sampling will continue for the Phase I wells. Well development will continue at MW-21 and MW-52.

TABLE 2
 SAMPLING PROGRESS
 3/1-3/5

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
G45SAE	FIELDQC	3/4/1999	FIELDQC	0.00	0.00
G45SAT	FIELDQC	3/4/1999	FIELDQC	0.00	0.00
G45SFT	FIELDQC	3/5/1999	FIELDQC	0.00	0.00
G45SNE	FIELDQC	3/5/1999	FIELDQC	0.00	0.00
G54DIE	FIELDQC	3/1/1999	FIELDQC	0.00	0.00
G54DIT	FIELDQC	3/1/1999	FIELDQC	0.00	0.00
G54DLE	FIELDQC	3/3/1999	FIELDQC	0.00	0.00
G54DLT	FIELDQC	3/3/1999	FIELDQC	0.00	0.00
G54DNE	FIELDQC	3/4/1999	FIELDQC	0.00	0.00
G55DPE	FIELDQC	3/2/1999	FIELDQC	0.00	0.00
G55DPT	FIELDQC	3/2/1999	FIELDQC	0.00	0.00
WF143E	FIELDQC	3/2/1999	FIELDQC	0.00	0.00
W01M2A	MW-1	3/1/1999	GROUNDWATER		
W06SSA	MW-6	3/1/1999	GROUNDWATER	0.00	10.00
W09SSA	MW-9	3/5/1999	GROUNDWATER	0.00	10.00
W11SSA	MW-11	3/3/1999	GROUNDWATER	0.00	10.00
W12SSA	MW-12	3/4/1999	GROUNDWATER	0.00	10.00
W12SSD	MW-12	3/4/1999	GROUNDWATER	0.00	10.00
W14SSA	MW-14	3/5/1999	GROUNDWATER	0.00	10.00
WF143A	11MW0003	3/2/1999	GROUNDWATER	0.00	0.00
DW5402	GAC WATER	3/2/1999	IDW		
DW5404	GAC WATER	3/4/1999	IDW		
DW5502	GAC WATER	3/2/1999	IDW		
DW5503	GAC WATER	3/3/1999	IDW		
DW5505	GAC WATER	3/5/1999	IDW		
SC4101	SOIL CUTTINGS	3/5/1999	IDW		
SC4102	SOIL CUTTINGS	3/5/1999	IDW		
SC4201	SOIL CUTTINGS	3/5/1999	IDW		
SC4202	SOIL CUTTINGS	3/5/1999	IDW		
SC4301	SOIL CUTTINGS	3/5/1999	IDW		
SC4302	SOIL CUTTINGS	3/5/1999	IDW		
SC5901	SOIL CUTTINGS	3/5/1999	IDW		
SC5902	SOIL CUTTINGS	3/5/1999	IDW		
RS18XA	3RACCOONLN	3/1/1999	OTHER		
G38MAA	MW-38	3/5/1999	PROFILE	130.00	130.00
G45SAA	MW-45	3/4/1999	PROFILE	100.00	100.00
G45SBA	MW-45	3/4/1999	PROFILE	110.00	110.00
G45SBD	MW-45	3/4/1999	PROFILE	110.00	110.00
G45SCA	MW-45	3/4/1999	PROFILE	120.00	120.00
G45SDA	MW-45	3/4/1999	PROFILE	130.00	130.00
G45SEA	MW-45	3/4/1999	PROFILE	140.00	140.00
G45SFA	MW-45	3/5/1999	PROFILE	150.00	150.00
G45SGA	MW-45	3/5/1999	PROFILE	160.00	160.00
G54DIA	MW-54	3/1/1999	PROFILE	230.00	235.00
G54DJA	MW-54	3/1/1999	PROFILE	240.00	245.00
G54DKA	MW-54	3/2/1999	PROFILE	250.00	255.00
G54DKD	MW-54	3/2/1999	PROFILE	250.00	255.00
G54DLA	MW-54	3/3/1999	PROFILE	260.00	265.00
G54DMA	MW-54	3/3/1999	PROFILE	270.00	275.00
G54DNA	MW-54	3/4/1999	PROFILE	280.00	285.00
G54DOA	MW-54	3/4/1999	PROFILE	290.00	295.00

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 soil and profile, and feet below water table for groundwater

SED = Sample End Depth, measured in feet bgs for soil and profile, and feet below water table for groundwater

TABLE 2
 SAMPLING PROGRESS
 3/1-3/5

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
G55DLA	MW-55	3/1/1999	PROFILE	240.00	245.00
G55DMA	MW-55	3/1/1999	PROFILE	250.00	255.00
G55DNA	MW-55	3/1/1999	PROFILE	260.00	265.00
G55DOA	MW-55	3/1/1999	PROFILE	270.00	275.00
G55DPA	MW-55	3/2/1999	PROFILE	280.00	285.00
G55DQA	MW-55	3/2/1999	PROFILE	290.00	295.00
G55DSA	MW-55	3/3/1999	PROFILE	310.00	315.00
G55DTA	MW-55	3/4/1999	PROFILE	320.00	325.00
G55DUA	MW-55	3/4/1999	PROFILE	330.00	335.00
G55DVA	MW-55	3/4/1999	PROFILE	340.00	345.00
B47EAA	BRICKPIT1	3/3/1999	SOIL		
B47FAA	BRICKPIT2	3/3/1999	SOIL		
S45SBA	MW-45	3/4/1999	SOIL	105.00	105.00

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 soil and profile, and feet below water table for groundwater

SED = Sample End Depth, measured in feet bgs for soil and profile, and feet below water table for groundwater

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 2/22/99-3/5/99

OGDEN_ID	LOCID OR WELL ID	METHOD	OGDEN_ANALYTE	DATE SAMPLED	SBD	SED	SAMP_TYPE
G55DDE	FIELDQC	OC21V	ACETONE	2/23/1999	0.00	0.00	FIELDQC
G59MBE	FIELDQC	OC21V	ACETONE	2/23/1999	0.00	0.00	FIELDQC
RS17XA	4RACCOONLN	8330N	2-AMINO-4,6-DINITROTOLUENE	2/24/1999			OTHER
RS17XA	4RACCOONLN	8330N	2-NITROTOLUENE	2/24/1999			OTHER
RS17XA	4RACCOONLN	8330N	3-NITROTOLUENE	2/24/1999			OTHER
RS17XA	4RACCOONLN	8330N	4-AMINO-2,6-DINITROTOLUENE	2/24/1999			OTHER
RS17XA	4RACCOONLN	8330N	4-NITROTOLUENE	2/24/1999			OTHER
RS17XA	4RACCOONLN	8330N	NITROGLYCERIN	2/24/1999			OTHER
G54DAA	MW-54	8330N	1,3,5-TRINITROBENZENE	2/22/1999	155.00	157.00	PROFILE
G54DAA	MW-54	8330N	PICRIC ACID	2/22/1999	155.00	157.00	PROFILE
G54DAA	MW-54	OC21V	ACETONE	2/22/1999	155.00	157.00	PROFILE
G54DAA	MW-54	OC21V	BENZENE	2/22/1999	155.00	157.00	PROFILE
G54DAA	MW-54	OC21V	TOLUENE	2/22/1999	155.00	157.00	PROFILE
G54DBA	MW-54	8330N	PICRIC ACID	2/23/1999	160.00	165.00	PROFILE
G54DBA	MW-54	OC21V	ACETONE	2/23/1999	160.00	165.00	PROFILE
G54DBA	MW-54	OC21V	CHLOROFORM	2/23/1999	160.00	165.00	PROFILE
G54DCA	MW-54	OC21V	CHLOROFORM	2/23/1999	172.00	175.00	PROFILE
G54DCD	MW-54	OC21V	CHLOROFORM	2/23/1999	172.00	175.00	PROFILE
G54DEA	MW-54	OC21V	CHLOROFORM	2/24/1999	190.00	195.00	PROFILE
G54DEA	MW-54	OC21V	TOLUENE	2/24/1999	190.00	195.00	PROFILE
G54DFA	MW-54	OC21V	CHLOROFORM	2/24/1999	200.00	205.00	PROFILE
G54DFA	MW-54	OC21V	TOLUENE	2/24/1999	200.00	205.00	PROFILE
G54DGA	MW-54	OC21V	CHLOROFORM	2/24/1999	210.00	215.00	PROFILE
G54DHA	MW-54	OC21V	CHLOROFORM	2/24/1999	220.00	225.00	PROFILE
G54DHA	MW-54	OC21V	TOLUENE	2/24/1999	220.00	225.00	PROFILE
G55DAA	MW-55	OC21V	ACETONE	2/23/1999	135.00	137.00	PROFILE
G55DAA	MW-55	OC21V	TOLUENE	2/23/1999	135.00	137.00	PROFILE
G55DBA	MW-55	OC21V	ACETONE	2/23/1999	145.00	145.00	PROFILE
G55DBA	MW-55	OC21V	BENZENE	2/23/1999	145.00	145.00	PROFILE
G55DBA	MW-55	OC21V	CHLOROFORM	2/23/1999	145.00	145.00	PROFILE
G55DBA	MW-55	OC21V	TOLUENE	2/23/1999	145.00	145.00	PROFILE
G55DCA	MW-55	OC21V	ACETONE	2/23/1999	155.00	155.00	PROFILE
G55DCA	MW-55	OC21V	TOLUENE	2/23/1999	155.00	155.00	PROFILE
G55DDA	MW-55	OC21V	CHLOROFORM	2/23/1999	160.00	165.00	PROFILE
G55DDD	MW-55	OC21V	CHLOROFORM	2/23/1999	160.00	165.00	PROFILE
G55DEA	MW-55	OC21V	CHLOROFORM	2/23/1999	170.00	175.00	PROFILE

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
SBD = SAMPLE COLLECTION BEGIN DEPTH (FEET BGS FOR SOILS AND PROFILE, FEET BELOW WATER TABLE FOR GROUNDWATER)
SED = SAMPLE COLLECTION END DEPTH (FEET BGS FOR SOILS AND PROFILE, FEET BELOW WATER TABLE FOR GROUNDWATER)

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 2/22/99-3/5/99

OGDEN_ID	LOCID OR WELL ID	METHOD	OGDEN_ANALYTE	DATE SAMPLED	SBD	SED	SAMP_TYPE
G55DFA	MW-55	OC21V	CHLOROFORM	2/23/1999	180.00	185.00	PROFILE
G55DGA	MW-55	OC21V	CHLOROFORM	2/24/1999	190.00	195.00	PROFILE
G55DHA	MW-55	OC21V	CHLOROFORM	2/24/1999	200.00	205.00	PROFILE
G55DIA	MW-55	OC21V	CHLOROFORM	2/24/1999	210.00	215.00	PROFILE
G59MAA	MW-59	8330N	1,3,5-TRINITROBENZENE	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	8330N	1,3-DINITROBENZENE	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	8330N	2,4,6-TRINITROTOLUENE	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	8330N	2,6-DINITROTOLUENE	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	8330N	3-NITROTOLUENE	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	8330N	4-NITROTOLUENE	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRI	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	8330N	NITROBENZENE	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	8330N	NITROGLYCERIN	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	8330N	PICRIC ACID	2/22/1999	135.00	135.00	PROFILE
G59MAA	MW-59	OC21V	ACETONE	2/23/1999	135.00	135.00	PROFILE
G59MBA	MW-59	8330N	1,3,5-TRINITROBENZENE	2/23/1999	146.00	146.00	PROFILE
G59MBA	MW-59	8330N	1,3-DINITROBENZENE	2/23/1999	146.00	146.00	PROFILE
G59MBA	MW-59	8330N	2,4,6-TRINITROTOLUENE	2/23/1999	146.00	146.00	PROFILE
G59MBA	MW-59	8330N	NITROGLYCERIN	2/23/1999	146.00	146.00	PROFILE
G59MBA	MW-59	OC21V	ACETONE	2/23/1999	146.00	146.00	PROFILE
G59MBA	MW-59	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	1,3,5-TRINITROBENZENE	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	1,3-DINITROBENZENE	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	2,4,6-TRINITROTOLUENE	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	2,6-DINITROTOLUENE	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	3-NITROTOLUENE	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	4-NITROTOLUENE	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRI	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	NITROBENZENE	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	NITROGLYCERIN	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	8330N	PICRIC ACID	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	OC21V	ACETONE	2/23/1999	146.00	146.00	PROFILE
G59MBD	MW-59	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	2/23/1999	146.00	146.00	PROFILE
G59MCA	MW-59	8330N	2,4,6-TRINITROTOLUENE	2/23/1999	156.00	156.00	PROFILE

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
SBD = SAMPLE COLLECTION BEGIN DEPTH (FEET BGS FOR SOILS AND PROFILE, FEET BELOW WATER TABLE FOR GROUNDWATER)
SED = SAMPLE COLLECTION END DEPTH (FEET BGS FOR SOILS AND PROFILE, FEET BELOW WATER TABLE FOR GROUNDWATER)

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 2/22/99-3/5/99

OGDEN_ID	LOCID OR WELL ID	METHOD	OGDEN_ANALYTE	DATE SAMPLED	SBD	SED	SAMP_TYPE
G59MCA	MW-59	8330N	4-AMINO-2,6-DINITROTOLUENE	2/23/1999	156.00	156.00	PROFILE
G59MCA	MW-59	8330N	NITROGLYCERIN	2/23/1999	156.00	156.00	PROFILE
G59MCA	MW-59	OC21V	ACETONE	2/23/1999	156.00	156.00	PROFILE
G59MCA	MW-59	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	2/23/1999	156.00	156.00	PROFILE
G59MDA	MW-59	8330N	2,4,6-TRINITROTOLUENE	2/23/1999	166.00	166.00	PROFILE
G59MDA	MW-59	8330N	NITROGLYCERIN	2/23/1999	166.00	166.00	PROFILE
G59MDA	MW-59	OC21V	ACETONE	2/23/1999	166.00	166.00	PROFILE
G59MDA	MW-59	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	2/23/1999	166.00	166.00	PROFILE
G59MEA	MW-59	8330N	1,3-DINITROBENZENE	2/23/1999	176.00	176.00	PROFILE
G59MEA	MW-59	8330N	NITROGLYCERIN	2/23/1999	176.00	176.00	PROFILE
G59MEA	MW-59	OC21V	ACETONE	2/23/1999	176.00	176.00	PROFILE
G59MFA	MW-59	8330N	NITROGLYCERIN	2/23/1999	186.00	186.00	PROFILE
G59MFA	MW-59	OC21V	ACETONE	2/23/1999	186.00	186.00	PROFILE
G59MGA	MW-59	8330N	1,3-DINITROBENZENE	2/23/1999	196.00	196.00	PROFILE
G59MGA	MW-59	8330N	NITROGLYCERIN	2/23/1999	196.00	196.00	PROFILE
G59MGA	MW-59	OC21V	ACETONE	2/23/1999	196.00	196.00	PROFILE
G59MGA	MW-59	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	2/23/1999	196.00	196.00	PROFILE
G59MGD	MW-59	8330N	1,3-DINITROBENZENE	2/23/1999	196.00	196.00	PROFILE
G59MGD	MW-59	8330N	NITROGLYCERIN	2/23/1999	196.00	196.00	PROFILE
G59MGD	MW-59	OC21V	ACETONE	2/23/1999	196.00	196.00	PROFILE
G59MGD	MW-59	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	2/23/1999	196.00	196.00	PROFILE
G59MHA	MW-59	8330N	1,3-DINITROBENZENE	2/23/1999	206.00	206.00	PROFILE
G59MHA	MW-59	8330N	NITROGLYCERIN	2/23/1999	206.00	206.00	PROFILE
G59MHA	MW-59	OC21V	ACETONE	2/23/1999	206.00	206.00	PROFILE
G59MIA	MW-59	8330N	NITROGLYCERIN	2/23/1999	216.00	216.00	PROFILE
G59MIA	MW-59	OC21V	ACETONE	2/23/1999	216.00	216.00	PROFILE
G59MJA	MW-59	8330N	1,3-DINITROBENZENE	2/23/1999	226.00	226.00	PROFILE
G59MJA	MW-59	8330N	NITROGLYCERIN	2/23/1999	226.00	226.00	PROFILE
G59MJA	MW-59	OC21V	ACETONE	2/23/1999	226.00	226.00	PROFILE

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
SBD = SAMPLE COLLECTION BEGIN DEPTH (FEET BGS FOR SOILS AND PROFILE, FEET BELOW WATER TABLE FOR GROUNDWATER)
SED = SAMPLE COLLECTION END DEPTH (FEET BGS FOR SOILS AND PROFILE, FEET BELOW WATER TABLE FOR GROUNDWATER)