WEEKLY PROGRESS UPDATE
FOR AUGUST 4 – AUGUST 8, 2003

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 and 1-2000-0014

MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from August 4 through August 8, 2003.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of August 8 is summarized in Table 1.

Table 1. Drilling progress as of August 8, 2003

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-203M1	Central Impact Area (CIAP-20)	190		176-186
MW-280	Bourne Area (WS4P-3)	345	183	185-195; 202-212; 255-265

bgs = below ground surface
bwt = below water table

Completed well installation of MW-203M1 (CIAP-20) reinstallation and MW-280 (WS4P-3).

Samples collected during the reporting period are summarized in Table 2. Groundwater samples were collected from Bourne water supply and monitoring wells, residential wells, recently installed wells, formerly dry wells as part of the Site-Wide Perchlorate Characterization, and as part of the April round of the Draft 2003 Long-Term Groundwater Monitoring Plan. Geotechnical samples were collected from borings to support the Pew Road Demo Area 1 Treatment System development. Soil samples were collected from the spoils piles of recently installed wells. Surface water samples were collected near a public beach, a private beach, and near the spit at Snake Pond.

2. SUMMARY OF DATA RECEIVED

Rush data are summarized in Table 3. These data are for analyses that are performed on a fast turn around time, typically 1-5 days. Perchlorate and explosive analyses for monitoring wells, and perchlorate, explosive and volatile organic compound (VOC) analyses for groundwater profile samples, are conducted in this timeframe, as well as any analyses pursuant to a special request. The rush data are not validated, but are provided as an indication of the most recent preliminary results. Table 3 summarizes only detects, and does not show samples with non-detects.

The status of the explosive detections with respect to confirmation using Photo Diode Array (PDA) spectra is indicated in Table 3. PDA is a procedure that has been implemented for the explosive analysis, to reduce the likelihood of false positive identifications. Where the PDA status is "YES" in Table 3, the detected compound is verified as properly identified. Where the status is "NO", the identification of an explosive has been determined to be a false positive. Where the status is blank, PDA has not yet been used to evaluate the detection, or PDA is not applicable because the analyte is a VOC or perchlorate. Most explosive detections verified by PDA are confirmed to be present upon completion of validation. Table 3 includes the following detections:

Table 3 includes detections from the following areas:

Bourne Area

- Groundwater samples from 02-13M1, 97-2, and 97-5 had detections of perchlorate. The results were similar to the previous sampling rounds.

Northwest Corner

- Groundwater samples from RSNW03 and RSNW06 had detections of perchlorate. The results were similar to the previous sampling rounds

- Groundwater samples from MW-279S, M2, M1 had detections of perchlorate. This is the first sampling event at these wells. The detection at MW-279M1 was consistent with the profile results. There were no profile samples collected corresponding to the S and M2 well screens.

DELIVERABLES SUBMITTED

Monthly Progress Report for July 2003	08/08/2003
MSP3 Gun and Mortar Positions Draft Investigations Report	08/08/2003
Weekly Progress Update for July 28 – August 1, 2003	08/08/2003

3. SCHEDULED ACTIONS

Scheduled actions for the week of August 11 include commencing drilling at NWP-5 and NWP-7. Groundwater sampling at Bourne water supply and monitoring wells and recently installed wells will continue.

4. SUMMARY OF ACTIVITIES FOR DEMO AREA 1

The Groundwater Report Addendum for the Demo 1 Groundwater Operable Unit was submitted to EPA and DEP. Modeling activities in support of the Feasibility Study (FS) are currently underway. A Revised Groundwater RRA Plan is under review by EPA and DEP. The comment resolution meeting for the Draft Soil RRA Plan is scheduled for next week. Geophysical anomaly excavation and removal continues.

TABLE 2
SAMPLING PROGRESS
08/03/2003 - 08/09/2003

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
58MW0001-E	FIELDQC	08/08/2003	FIELDQC	0	0		
90LMA0007E	FIELDQC	08/04/2003	FIELDQC	0	0		
4036000-01G-A	4036000-01G	08/04/2003	GROUNDWATER	38	69.8	6	12
4036000-06G-A	4036000-06G	08/04/2003	GROUNDWATER	108	128	6	12
58MW0001-A	58MW0001	08/08/2003	GROUNDWATER	121.8	126.8	0	5
90LWA0007-A	90LWA0007	08/04/2003	GROUNDWATER	92	102	0	10
RSNW01-A	RSNW01	08/06/2003	GROUNDWATER	0	0		
RSNW03-A	RSNW03	08/06/2003	GROUNDWATER	0	0		
RSNW06-A	RSNW06	08/06/2003	GROUNDWATER	0	0		
W02-04M1A	02-04	08/07/2003	GROUNDWATER	123	133	73.97	83.97
W02-04M2A	02-04	08/07/2003	GROUNDWATER	98	108	48.93	58.93
W02-04M3A	02-04	08/07/2003	GROUNDWATER	83	93	34.01	44.01
W02-07M1A	02-07	08/06/2003	GROUNDWATER	135	145	101.14	111.14
W02-07M1D	02-07	08/06/2003	GROUNDWATER	135	145	101.14	111.14
W02-07M2A	02-07	08/06/2003	GROUNDWATER	107	117	72.86	82.86
W02-07M3A	02-07	08/07/2003	GROUNDWATER	47	57	13	23
W02-13M1A	02-13	08/04/2003	GROUNDWATER	98	108	58.33	68.33
W02-13M2A	02-13	08/04/2003	GROUNDWATER	83	93	44.2	54.2
W02-13M2D	02-13	08/04/2003	GROUNDWATER	83	93	44.2	54.2
W02-13M3A	02-13	08/04/2003	GROUNDWATER	68	78	28.3	38.3
W02SSA	MW-02	08/05/2003	GROUNDWATER	137	147	0	10
W02SSA	MW-02	08/05/2003	GROUNDWATER	137	147	0	10
W09SSA	MW-09	08/07/2003	GROUNDWATER	113	123	0	10
W18SSA	MW-18	08/07/2003	GROUNDWATER	35	45	0	10
W219M1A	MW-219	08/05/2003	GROUNDWATER	357	367	178	188
W219M2A	MW-219	08/05/2003	GROUNDWATER	332	342	153.05	163.05
W219M3A	MW-219	08/05/2003	GROUNDWATER	315	325	135.8	145.8
W219M4A	MW-219	08/05/2003	GROUNDWATER	225	235	45.7	55.7
W222M2A	MW-222	08/04/2003	GROUNDWATER	185	195	68.58	78.58
W222M2D	MW-222	08/04/2003	GROUNDWATER	185	195	68.58	78.58
W22SSA	MW-22	08/05/2003	GROUNDWATER	170.5	180.5	0	10
W246M1A	MW-246	08/07/2003	GROUNDWATER	178	188	116.2	126.2
W246M1A	MW-246	08/07/2003	GROUNDWATER	178	188	116.2	126.2
W246M2A	MW-246	08/07/2003	GROUNDWATER	95	105	33.09	43.09
W246M2A	MW-246	08/07/2003	GROUNDWATER	95	105	33.09	43.09
W251M1A	MW-251	08/08/2003	GROUNDWATER	128	133	123	128
W251M2A	MW-251	08/08/2003	GROUNDWATER	98	103	93	98
W251M3A	MW-251	08/08/2003	GROUNDWATER	83	88	78	83
W252M1A	MW-252	08/06/2003	GROUNDWATER	174	184	60.6	70.6
W252M1A	MW-252	08/06/2003	GROUNDWATER	174	184	60.6	70.6
W252M2A	MW-252	08/06/2003	GROUNDWATER	145	155	31.62	41.61

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
SED = Sample End Depth, measured in feet bgs
BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

TABLE 2
SAMPLING PROGRESS
08/03/2003 - 08/09/2003

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
W252M2A	MW-252	08/06/2003	GROUNDWATER	145	155	31.62	41.61
W252M3A	MW-252	08/06/2003	GROUNDWATER	115	125	1.63	11.63
W55SSA	MW-55	08/06/2003	GROUNDWATER	133	143	0	10
W55SSD	MW-55	08/06/2003	GROUNDWATER	133	143	0	10
W62SSA	MW-62	08/04/2003	GROUNDWATER	108	118	0	10
W68SSA	MW-68	08/05/2003	GROUNDWATER	84	94	0	10
W80DDA	MW-80	08/08/2003	GROUNDWATER	158	168	114	124
W80M1A	MW-80	08/08/2003	GROUNDWATER	130	140	86	96
W80M2A	MW-80	08/08/2003	GROUNDWATER	100	110	56	66
W80M2D	MW-80	08/08/2003	GROUNDWATER	100	110	56	66
SC25901	SOIL CUTTING	08/07/2003	IDW				
SC26001	SOIL CUTTING	08/07/2003	IDW				
SC26101	SOIL CUTTING	08/07/2003	IDW				
SC27001	SOIL CUTTING	08/07/2003	IDW				
SC27101	SOIL CUTTING	08/07/2003	IDW				
SC27201	SOIL CUTTING	08/07/2003	IDW				
SC27601	SOIL CUTTING	08/07/2003	IDW				
SC27701	SOIL CUTTING	08/07/2003	IDW				
SC27801	SOIL CUTTING	08/07/2003	IDW				
SC27901	SOIL CUTTING	08/07/2003	IDW				
SC28001	SOIL CUTTING	08/07/2003	IDW				
ABB0046AAA	B-46	08/05/2003	SOIL BORING				
ABB0046BAA	B-46	08/05/2003	SOIL BORING				
ABB0046CAA	B-46	08/05/2003	SOIL BORING				
ABB0047AAA	B-46	08/05/2003	SOIL BORING				
ABB0047BAA	B-46	08/05/2003	SOIL BORING				
ABB0047CAA	B-46	08/05/2003	SOIL BORING				
LKSNK0005AAA	LKSNK0005	08/05/2003	SURFACE WATER	0	1		
LKSNK0006AAA	LKSNK0006	08/05/2003	SURFACE WATER	0	1		
LKSNK0007AAA	LKSNK0007	08/05/2003	SURFACE WATER	0	1		

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
SED = Sample End Depth, measured in feet bgs
BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 07/11/03 - 08/09/03

SAMPLE_ID	LOCID OR WELL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	ANALYTE	PDA
RSNW03-A	RSNW03	08/06/2003	GROUNDWATER	0	0			E314.0	PERCHLORATE	
RSNW06-A	RSNW06	08/06/2003	GROUNDWATER	0	0			E314.0	PERCHLORATE	
W02-13M1A	02-13	08/04/2003	GROUNDWATER	98	108	58.33	68.33	E314.0	PERCHLORATE	
W279M1A	MW-279	07/30/2003	GROUNDWATER	96	106	37.4	47.4	E314.0	PERCHLORATE	
W279M2A	MW-279	07/30/2003	GROUNDWATER	83	88	26.8	31.8	E314.0	PERCHLORATE	
W279M2D	MW-279	07/30/2003	GROUNDWATER	83	88	26.8	31.8	E314.0	PERCHLORATE	
W279SSA	MW-279	07/30/2003	GROUNDWATER	66	76	10	20	E314.0	PERCHLORATE	
XXM972-A	97-2	07/29/2003	GROUNDWATER	75	85	53	63	E314.0	PERCHLORATE	
XXM975-A	97-5	07/29/2003	GROUNDWATER	84	94	76	86	E314.0	PERCHLORATE	

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BELOW GROUND SURFACE
SED = SAMPLE COLLECTION END DEPTH IN FEET BELOW GROUND SURFACE
BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET
BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
PDA/YES = Photo Diode Array, Detect Confirmed
PDA/NO = Photo Diode Array, Detect Not Confirmed
*** = Interference in sample**
+ = PDAs are not good matches