

**WEEKLY PROGRESS UPDATE
FOR NOVEMBER 25 – NOVEMBER 29, 2002**

**EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 & 1-2000-0014
MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA**

The following summary of progress is for the period from November 25 through November 29, 2002.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of November 29 is summarized in Table 1.

Table 1. Drilling progress as of November 29, 2002				
Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-248	Demo Area 1 (D1P-16)	280	167	143-153; 178-188; 218-228
MW-249	Central Impact Area (CIAP-14)	300	159	
bgs = below ground surface bwt = below water table				

Completed well installation of MW-248 (D1P-16) and completed drilling of MW-249 (CIAP-14).

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-249. Groundwater samples were collected from Bourne water supply and monitoring wells and as part of the December Long Term Groundwater monitoring round.

As part of the Munitions Survey Project, pre-detonation and post-detonation soil samples were collected from the J-2 Range.

The IAGWSP Technical Team meeting was not held due to the Thanksgiving holiday.

2. SUMMARY OF DATA RECEIVED

Rush data are summarized in Table 3. These data are for analyses that are performed on a fast turnaround time, typically 1-5 days. Explosive analyses for monitoring wells, and 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:

Central Impact Area and Downgradient

- Groundwater samples from MW-216S had a detection of perchlorate. The results were similar to the previous sampling rounds.
- Profile samples from MW-249 (CIAP-14) had detections of explosives. TNT was detected and confirmed by PDA spectra at 19 feet below the water table. RDX was detected and confirmed by PDA spectra at 39 feet below the water table. HMX was detected and confirmed by PDA spectra, but with interference in two intervals; at 39 feet and 109 feet below the water table. 2,6-DNT was detected and confirmed by PDA spectra, but with interference at 109 feet below the water table. Well screens were set at the depth (13 to 23 ft bwt) corresponding to the TNT detection, the depth (33 to 43 ft bwt) corresponding to the RDX detection, and at the depth (102 to 112 ft bwt) corresponding to the deepest HMX detection.

DELIVERABLES SUBMITTED

Final Demolition Area 2 Additional Delineation Work Plan

11/27/2002

3. SCHEDULED ACTIONS

Scheduled actions for the week of December 2 include complete well installation of MW-249 (CIAP-14) and MW-250 (J3P-19). Groundwater sampling will continue at the Bourne water supply and monitoring wells and as part of the December LTGM round.

4. SUMMARY OF ACTIVITIES FOR DEMO 1

Additional delineation of the downgradient portion of the groundwater plume is being conducted prior to finalizing the Feasibility Study for the Groundwater Operable Unit and as the Interim Action for groundwater remediation is being designed. Pumping and treating groundwater at the toe of the Demo 1 plume and at Frank Perkins Road has been selected as an Interim Action to address the Demo 1 Area Groundwater Operable Unit. A Rapid Response Action/Release Abatement Measure (RRA/RAM) is also being planned to address soil contamination at Demo 1. Well installation of MW-248 (D1P-16) to define the plume toe was completed this week. UXO clearance at proposed monitoring well location D1P-18 was also completed. Drilling at this location will commence the week of December 9th.

TABLE 2
 SAMPLING PROGRESS
 11/24/2002 - 11/30/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
0.G.0.0UR10.0.E	FIELDQC	11/25/2002	FIELDQC	0.00	0.00		
0.G.0.0UR11.0.E	FIELDQC	11/26/2002	FIELDQC	0.00	0.00		
G249DPE	FIELDQC	11/25/2002	FIELDQC	0.00	0.00		
TW1-88A-E	FIELDQC	11/27/2002	FIELDQC	0.00	0.00		
W02-12M1T	FIELDQC	11/26/2002	FIELDQC	0.00	0.00		
4036000-01G	4036000-01G	11/26/2002	GROUNDWATER			6.00	12.00
4036000-03G	4036000-03G	11/26/2002	GROUNDWATER	50.00	60.00	6.00	12.00
4036000-04G	4036000-04G	11/26/2002	GROUNDWATER			6.00	12.00
4036000-06G	4036000-06G	11/26/2002	GROUNDWATER			6.00	12.00
TW1-88A-A	1-88	11/27/2002	GROUNDWATER		102.90	0.00	67.40
W02-12M1A	02-12	11/26/2002	GROUNDWATER	109.00	119.00	58.35	68.35
W02-12M2A	02-12	11/26/2002	GROUNDWATER	94.00	104.00	43.21	53.21
W02-12M3A	02-12	11/27/2002	GROUNDWATER	79.00	89.00	28.22	38.22
W02-13M1A	02-13	11/27/2002	GROUNDWATER	98.00	108.00	58.33	68.33
W02-13M2A	02-13	11/27/2002	GROUNDWATER	83.00	93.00	44.20	54.20
W02-13M3A	02-13	11/27/2002	GROUNDWATER	68.00	78.00	28.30	38.30
W07M2A	MW-07	11/25/2002	GROUNDWATER	170.00	175.00	65.00	70.00
W07SSA	MW-07	11/25/2002	GROUNDWATER	103.00	113.00	0.00	10.00
W111M3A	MW-111	11/25/2002	GROUNDWATER	165.00	175.00	33.00	43.00
W111M3D	MW-111	11/25/2002	GROUNDWATER	165.00	175.00	33.00	43.00
W113M1A	MW-113	11/26/2002	GROUNDWATER	240.00	250.00	98.00	108.00
W113M2A	MW-113	11/26/2002	GROUNDWATER	190.00	200.00	48.00	58.00
W138M1A	MW-138	11/25/2002	GROUNDWATER	253.00	263.00	132.00	142.00
W138M2A	MW-138	11/25/2002	GROUNDWATER	151.00	161.00	30.00	40.00
W138M3A	MW-138	11/25/2002	GROUNDWATER	135.00	145.00	14.00	24.00
W138M3D	MW-138	11/25/2002	GROUNDWATER	135.00	145.00	14.00	24.00
W139M1A	MW-139	11/26/2002	GROUNDWATER	194.00	204.00	110.00	120.00
W139M2A	MW-139	11/26/2002	GROUNDWATER	154.00	164.00	70.00	80.00
W141M1A	MW-141	11/25/2002	GROUNDWATER	190.00	200.00	62.00	72.00
W141M2A	MW-141	11/25/2002	GROUNDWATER	162.00	172.00	34.00	44.00
W141SSA	MW-141	11/25/2002	GROUNDWATER	128.00	138.00	0.00	10.00
W143M3A	MW-143	11/25/2002	GROUNDWATER	107.00	112.00	77.00	82.00
W144M2A	MW-144	11/25/2002	GROUNDWATER	130.00	140.00	109.00	119.00
W144SSA	MW-144	11/25/2002	GROUNDWATER	26.00	36.00	5.00	15.00
W165M2A	MW-165	11/26/2002	GROUNDWATER	124.50	134.50	46.00	56.00
W165M3A	MW-165	11/26/2002	GROUNDWATER	94.50	104.50	16.00	26.00
W172M2A	MW-172	11/26/2002	GROUNDWATER	169.00	179.00	104.00	114.00
G249DPA	MW-249	11/25/2002	PROFILE	300.00	300.00	158.60	158.60
J2.A.T2P.015.1.0	J2.A.T2P.015	11/25/2002	SOIL GRID				
J2.A.T2P.015.2.0	J2.A.T2P.015	11/26/2002	SOIL GRID				

Profiling methods include: Volatiles, Explosives and Perchlorate

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 11/08/02 - 11/30/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W216SSA	MW-216	11/21/2002	GROUNDWATER	199.00	209.00	0.00	7.13	E314.0	PERCHLORATE	
G249DAA	MW-249	11/20/2002	PROFILE	150.00	150.00	8.60	8.60	8330N	1,3,5-TRINITROBENZENE	NO
G249DAA	MW-249	11/20/2002	PROFILE	150.00	150.00	8.60	8.60	8330N	1,3-DINITROBENZENE	NO
G249DAA	MW-249	11/20/2002	PROFILE	150.00	150.00	8.60	8.60	8330N	2,4,6-TRINITROTOLUENE	NO
G249DAA	MW-249	11/20/2002	PROFILE	150.00	150.00	8.60	8.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	NO
G249DAA	MW-249	11/20/2002	PROFILE	150.00	150.00	8.60	8.60	8330N	2,6-DINITROTOLUENE	NO*
G249DAA	MW-249	11/20/2002	PROFILE	150.00	150.00	8.60	8.60	8330N	NITROGLYCERIN	NO
G249DAA	MW-249	11/20/2002	PROFILE	150.00	150.00	8.60	8.60	8330N	PICRIC ACID	NO
G249DBA	MW-249	11/20/2002	PROFILE	160.00	160.00	18.60	18.60	8330N	2,4,6-TRINITROTOLUENE	YES
G249DCA	MW-249	11/20/2002	PROFILE	170.00	170.00	28.60	28.60	8330N	2,4,6-TRINITROTOLUENE	NO
G249DCA	MW-249	11/20/2002	PROFILE	170.00	170.00	28.60	28.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	NO
G249DCA	MW-249	11/20/2002	PROFILE	170.00	170.00	28.60	28.60	8330N	2,6-DINITROTOLUENE	NO*
G249DCA	MW-249	11/20/2002	PROFILE	170.00	170.00	28.60	28.60	8330N	NITROGLYCERIN	NO
G249DCA	MW-249	11/20/2002	PROFILE	170.00	170.00	28.60	28.60	8330N	PICRIC ACID	NO
G249DDA	MW-249	11/20/2002	PROFILE	180.00	180.00	38.60	38.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G249DEA	MW-249	11/20/2002	PROFILE	190.00	190.00	48.60	48.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	NO
G249DEA	MW-249	11/20/2002	PROFILE	190.00	190.00	48.60	48.60	8330N	2,6-DINITROTOLUENE	NO*
G249DEA	MW-249	11/20/2002	PROFILE	190.00	190.00	48.60	48.60	8330N	NITROGLYCERIN	NO
G249DFA	MW-249	11/20/2002	PROFILE	200.00	200.00	58.60	58.60	8330N	NITROGLYCERIN	NO
G249DGA	MW-249	11/20/2002	PROFILE	210.00	210.00	68.60	68.60	8330N	2,4,6-TRINITROTOLUENE	NO
G249DGA	MW-249	11/20/2002	PROFILE	210.00	210.00	68.60	68.60	8330N	2,6-DINITROTOLUENE	NO
G249DGA	MW-249	11/20/2002	PROFILE	210.00	210.00	68.60	68.60	8330N	4-NITROTOLUENE	NO
G249DGA	MW-249	11/20/2002	PROFILE	210.00	210.00	68.60	68.60	8330N	NITROGLYCERIN	NO
G249DGA	MW-249	11/20/2002	PROFILE	210.00	210.00	68.60	68.60	8330N	OCTAHYDRO-1,3,5,7-TETRANIT	YES*
G249DGA	MW-249	11/20/2002	PROFILE	210.00	210.00	68.60	68.60	8330N	PICRIC ACID	NO
G249DHA	MW-249	11/21/2002	PROFILE	220.00	220.00	78.60	78.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	NO
G249DHA	MW-249	11/21/2002	PROFILE	220.00	220.00	78.60	78.60	8330N	NITROGLYCERIN	NO
G249DJA	MW-249	11/21/2002	PROFILE	240.00	240.00	98.60	98.60	8330N	NITROGLYCERIN	NO
G249DKA	MW-249	11/21/2002	PROFILE	250.00	250.00	108.60	108.60	8330N	1,3,5-TRINITROBENZENE	NO
G249DKA	MW-249	11/21/2002	PROFILE	250.00	250.00	108.60	108.60	8330N	2,4,6-TRINITROTOLUENE	NO
G249DKA	MW-249	11/21/2002	PROFILE	250.00	250.00	108.60	108.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	NO
G249DKA	MW-249	11/21/2002	PROFILE	250.00	250.00	108.60	108.60	8330N	2,6-DINITROTOLUENE	YES*
G249DKA	MW-249	11/21/2002	PROFILE	250.00	250.00	108.60	108.60	8330N	NITROGLYCERIN	NO

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.

SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS

SED = SAMPLE COLLECTION END DEPTH IN FEET BGS

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

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SAMPLES COLLECTED 11/08/02 - 11/30/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G249DKA	MW-249	11/21/2002	PROFILE	250.00	250.00	108.60	108.60	8330N	OCTAHYDRO-1,3,5,7-TETRANIT	YES*
G249DLA	MW-249	11/21/2002	PROFILE	260.00	260.00	118.60	118.60	8330N	2,6-DINITROTOLUENE	NO*
G249DLA	MW-249	11/21/2002	PROFILE	260.00	260.00	118.60	118.60	8330N	NITROGLYCERIN	NO
G249DLA	MW-249	11/21/2002	PROFILE	260.00	260.00	118.60	118.60	8330N	PICRIC ACID	NO
G249DMA	MW-249	11/21/2002	PROFILE	270.00	270.00	128.60	128.60	8330N	NITROGLYCERIN	NO
G249DNA	MW-249	11/21/2002	PROFILE	280.00	280.00	138.60	138.60	8330N	NITROGLYCERIN	NO
G249DNA	MW-249	11/21/2002	PROFILE	280.00	280.00	138.60	138.60	8330N	PICRIC ACID	NO
G249DOA	MW-249	11/22/2002	PROFILE	290.00	290.00	148.60	148.60	8330N	2,4-DIAMINO-6-NITROTOLUENE	NO
G249DOA	MW-249	11/22/2002	PROFILE	290.00	290.00	148.60	148.60	8330N	2,6-DINITROTOLUENE	NO
G249DOA	MW-249	11/22/2002	PROFILE	290.00	290.00	148.60	148.60	8330N	NITROGLYCERIN	NO
G249DPA	MW-249	11/25/2002	PROFILE	300.00	300.00	158.60	158.60	8330N	NITROGLYCERIN	NO

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.

SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS

SED = SAMPLE COLLECTION END DEPTH IN FEET BGS

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