WEEKLY PROGRESS UPDATE
FOR DECEMBER 23 – DECEMBER 27, 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 December 23 through December 27, 2002.

1. SUMMARY OF ACTIONS TAKEN

No drilling was conducted the week of December 23 – December 27.

Samples collected during the reporting period are summarized in Table 2. Groundwater samples were collected from Bourne water supply and monitoring wells. Water samples were collected from the GAC treatment system.

The IAGWSP Technical Team meeting was not held due to the Christmas 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:

<u>Bourne Area and upgradient</u>

- Groundwater samples from 02-09M2 had a detection of perchlorate. The results were similar to the previous sampling rounds.

- Groundwater samples from 02-10M1 had a detection of perchlorate. This is the first time perchlorate has been detected in this well.

- Groundwater samples from 02-12M1 had a detection of chloroform.

Southeast Ranges

- Profile samples from MW-253 (J1P-18) had detections of explosives and VOCs. None of the detections of explosives were confirmed by PDA spectra. Screens have not yet been selected for this location.

Other Areas

- Groundwater samples from the Gallo Ice Skating Rink well and duplicate had detections of perchlorate, PETN and nitroglycerin. The explosive compounds were not confirmed by PDA spectra. This is the first sampling event for this well.

DELIVERABLES SUBMITTED

Weekly Progress Update for December 9 – December 13, 2002 12/23/02

3. SCHEDULED ACTIONS

Scheduled actions for the week of December 30 include weekly groundwater sampling 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. Drilling at D1P-18 and UXO clearance at D1P-19 will continue in the second week of January.

TABLE 2
SAMPLING PROGRESS
12/22/2002 - 12/28/2002

OGDEN_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
TW00-1D-T	FIELDQC	12/23/2002	FIELDQC	0	0		
XXM973-E	FIELDQC	12/23/2002	FIELDQC	0	0		
4036000-01G-A	4036000-01G	12/24/2002	GROUNDWATER			6	12
4036000-03G-A	4036000-03G	12/24/2002	GROUNDWATER	50	60	6	12
4036000-04G-A	4036000-04G	12/24/2002	GROUNDWATER			6	12
4036000-06G-A	4036000-06G	12/24/2002	GROUNDWATER			6	12
TW1-88A-A	1-88A	12/24/2002	GROUNDWATER		102.9	0	67.4
W02-12M1A	02-12	12/23/2002	GROUNDWATER	109	119	58.35	68.35
W02-12M2A	02-12	12/23/2002	GROUNDWATER	94	104	43.21	53.21
W02-12M3A	02-12	12/23/2002	GROUNDWATER	79	89	28.22	38.22
W02-13M1A	02-13	12/24/2002	GROUNDWATER	98	108	58.33	68.33
W02-13M2A	02-13	12/24/2002	GROUNDWATER	83	93	44.2	54.2
W02-13M3A	02-13	12/24/2002	GROUNDWATER	68	78	28.3	38.3
XXM973-A	97-3	12/23/2002	GROUNDWATER	75	85	36	46
DW121902-NV	GACWATER	12/23/2002	IDW				

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 11/29/02 - 12/29/02

OGDEN_ID	LOCID OR WELL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
GLSKRNK-A	GLSKRNK	12/20/2002	GROUNDWATER					8330N	NITROGLYCERIN	NO
GLSKRNK-A	GLSKRNK	12/20/2002	GROUNDWATER					E314.0	PERCHLORATE	
GLSKRNK-A	GLSKRNK	12/20/2002	GROUNDWATER					8330N	PENTAERYTHRITOL TETRANITRATE	NO
GLSKRNK-D	GLSKRNK	12/20/2002	GROUNDWATER					8330N	NITROGLYCERIN	NO
GLSKRNK-D	GLSKRNK	12/20/2002	GROUNDWATER					8330N	PENTAERYTHRITOL TETRANITRATE	NO
GLSKRNK-D	GLSKRNK	12/20/2002	GROUNDWATER					E314.0	PERCHLORATE	
W02-09M2A	02-09	12/20/2002	GROUNDWATER	59	69	50.3	60.3	E314.0	PERCHLORATE	
W02-10M1A	02-10	12/20/2002	GROUNDWATER	135	145	94	104	E314.0	PERCHLORATE	
W02-12M1A	02-12	12/23/2002	GROUNDWATER	109	119	58.35	68.35	OC21V	CHLOROFORM	
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	8330N	NITROGLYCERIN	NO
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	8330N	2,6-DINITROTOLUENE	NO
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	8330N	PICRIC ACID	NO
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	8330N	2-NITROTOLUENE	NO
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	8330N	1,3,5-TRINITROBENZENE	NO
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	8330N	3-NITROTOLUENE	NO
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	8330N	4-NITROTOLUENE	NO
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	8330N	1,3-DINITROBENZENE	NO
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	OC21V	ACETONE	
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	OC21V	2-HEXANONE	
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	OC21V	CHLOROFORM	

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
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G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	OC21V	XYLENES, TOTAL	
G253DAA	MW-253	12/18/2002	PROFILE	135	135	5.6	5.6	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G253DBA	MW-253	12/18/2002	PROFILE	140	140	10.6	10.6	8330N	2,6-DINITROTOLUENE	NO
G253DBA	MW-253	12/18/2002	PROFILE	140	140	10.6	10.6	8330N	PICRIC ACID	NO
G253DBA	MW-253	12/18/2002	PROFILE	140	140	10.6	10.6	OC21V	CHLOROFORM	
G253DBA	MW-253	12/18/2002	PROFILE	140	140	10.6	10.6	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G253DBA	MW-253	12/18/2002	PROFILE	140	140	10.6	10.6	OC21V	ACETONE	
G253DCA	MW-253	12/18/2002	PROFILE	150	150	20.6	20.6	OC21V	ACETONE	
G253DCA	MW-253	12/18/2002	PROFILE	150	150	20.6	20.6	OC21V	CHLOROFORM	
G253DDA	MW-253	12/18/2002	PROFILE	160	160	30.6	30.6	OC21V	ACETONE	
G253DDA	MW-253	12/18/2002	PROFILE	160	160	30.6	30.6	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G253DDA	MW-253	12/18/2002	PROFILE	160	160	30.6	30.6	OC21V	CHLOROFORM	
G253DEA	MW-253	12/18/2002	PROFILE	170	170	40.6	40.6	OC21V	ACETONE	
G253DEA	MW-253	12/18/2002	PROFILE	170	170	40.6	40.6	OC21V	CHLOROFORM	
G253DFA	MW-253	12/18/2002	PROFILE	180	180	50.6	50.6	OC21V	ACETONE	
G253DFA	MW-253	12/18/2002	PROFILE	180	180	50.6	50.6	OC21V	CHLOROFORM	
G253DFD	MW-253	12/18/2002	PROFILE	180	180	50.6	50.6	OC21V	ACETONE	
G253DFD	MW-253	12/18/2002	PROFILE	180	180	50.6	50.6	OC21V	CHLOROFORM	
G253DGA	MW-253	12/18/2002	PROFILE	190	190	60.6	60.6	OC21V	ACETONE	
G253DGA	MW-253	12/18/2002	PROFILE	190	190	60.6	60.6	OC21V	CHLOROFORM	
G253DHA	MW-253	12/18/2002	PROFILE	200	200	70.6	70.6	OC21V	ACETONE	
G253DHA	MW-253	12/18/2002	PROFILE	200	200	70.6	70.6	OC21V	CHLOROFORM	

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G253DIA	MW-253	12/19/2002	PROFILE	210	210	80.6	80.6	OC21V	ACETONE	
G253DIA	MW-253	12/19/2002	PROFILE	210	210	80.6	80.6	OC21V	CHLOROFORM	
G253DIA	MW-253	12/19/2002	PROFILE	210	210	80.6	80.6	8330N	1,3,5-TRINITROBENZENE	NO
G253DIA	MW-253	12/19/2002	PROFILE	210	210	80.6	80.6	8330N	2,6-DINITROTOLUENE	NO
G253DIA	MW-253	12/19/2002	PROFILE	210	210	80.6	80.6	8330N	NITROGLYCERIN	NO
G253DJA	MW-253	12/19/2002	PROFILE	220	220	90.6	90.6	OC21V	CHLOROFORM	
G253DJA	MW-253	12/19/2002	PROFILE	220	220	90.6	90.6	OC21V	ACETONE	
G253DKA	MW-253	12/19/2002	PROFILE	230	230	100.6	100.6	OC21V	ACETONE	
G253DKA	MW-253	12/19/2002	PROFILE	230	230	100.6	100.6	OC21V	CHLOROFORM	
G253DLA	MW-253	12/19/2002	PROFILE	240	240	110.6	110.6	OC21V	ACETONE	
G253DLA	MW-253	12/19/2002	PROFILE	240	240	110.6	110.6	OC21V	CHLOROFORM	
G253DMA	MW-253	12/19/2002	PROFILE	250	250	120.6	120.6	OC21V	ACETONE	
G253DMA	MW-253	12/19/2002	PROFILE	250	250	120.6	120.6	OC21V	CHLOROFORM	
G253DNA	MW-253	12/19/2002	PROFILE	260	260	130.6	130.6	OC21V	CHLOROFORM	
G253DOA	MW-253	12/19/2002	PROFILE	270	270	140.6	140.6	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G253DOA	MW-253	12/19/2002	PROFILE	270	270	140.6	140.6	OC21V	ACETONE	
G253DOA	MW-253	12/19/2002	PROFILE	270	270	140.6	140.6	OC21V	CHLOROFORM	
G253DPA	MW-253	12/19/2002	PROFILE	280	280	150.6	150.6	OC21V	CHLOROFORM	
G253DQA	MW-253	12/19/2002	PROFILE	290	290	160.6	160.6	OC21V	ACETONE	
G253DRA	MW-253	12/19/2002	PROFILE	300	300	170.6	170.6	OC21V	CHLOROFORM	
G253DSA	MW-253	12/19/2002	PROFILE	310	310	180.6	180.6	OC21V	CHLOROFORM	
G253DTA	MW-253	12/19/2002	PROFILE	317	317	187.6	187.6	OC21V	ACETONE	

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