

**WEEKLY PROGRESS UPDATE  
FOR APRIL 26 - APRIL 30, 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 April 26 - April 30, 1999.

**1. SUMMARY OF ACTIONS TAKEN**

Sampling of supplemental IRP and new wells continued during the week, as indicated in Table 1 (sample type = "groundwater"). The Guard, EPA, and MADEP met on April 29 to discuss technical issues, including:

- ◆ Corrective actions arising from Ogden's December 1998 audit of Severn Trent Laboratories.
- ◆ Groundwater explosives results for the period from 1997 to the present. There was a discussion of new data, which includes nondetects for the MW-41, -46, and -47 clusters, and detections of RDX and HMX at MW-59. The MW-59 detections are significant in that the profile results for this location were markedly different, with no RDX or HMX detected but high levels of TNT detected. No TNT was present in the monitoring well sample. The RDX and HMX levels at MW-59 are relatively low (<HA) and are consistent with the levels at nearby MW-26 and at downgradient MW-2.
- ◆ Future groundwater investigations of RDX exceeding HAs. The highest priority is the investigation at Demo Area 1, which needs determination of the lateral extent of contamination. EPA is also interested in placing a well upgradient from MW-19 to confirm the apparent source.
- ◆ Alternative drilling methods which might allow cheaper delineation of contaminants than the current drilling methods.
- ◆ Far field monitoring wells for existing water supply wells. The Guard will contact the towns (and 102nd FW for the J well) and try to set up meetings to discuss these wells.
- ◆ Compounds identified by EPA as constituents of munitions fired at the KD and U Ranges.
- ◆ The status of the draft Phase II (b) Workplan and the draft Gun/Mortar FSP. The workplan will be delivered to the agencies on Monday 5/3 as a summary of existing information for each of the Phase II (b) locations, based on Ogden's and USACE's archive search reports, and a list of areas requiring further investigation. Investigation details will be provided in an addendum.
- ◆ MAARNG policy for restricting access to UXO that remains onsite. IAGS personnel are not entering the "safety zones" that have been mapped surrounding these munitions.
- ◆ EPA indicated that comments will be forthcoming on information that was not provided in the ASR. Also, EPA indicated that comments will be provided within 2 weeks on the Guard's UXO Survey plan. EPA asked the Guard to coordinate with AFCEE to obtain splits from Arnold Road groundwater samples that are collected in May.
- ◆ The Guard indicated that the \$2.5M additional funding for the IAGS should be available by the end of May. Also, the Guard expects to hear from Army shortly on an additional funding of \$3M.

**2. SUMMARY OF DATA RECEIVED**

Preliminary non-validated results are summarized in Table 2 for samples collected over the preceding two-week period. Photo Diode Array (PDA) data indicate that the detection of nitroglycerin in groundwater from 90WT0015 was not confirmed, while the detection of this compound in soil from location 23H in the J-3 Wetland was confirmed. PDA data have been requested for the other explosive detections in Table 2.

**3. DELIVERABLES SUBMITTED**

Deliverables submitted during the reporting period included the following:

Weekly Progress Update (April 19-April 23)

April 29, 1999

**4. SCHEDULED ACTIONS**

Scheduled actions for the week of May 3 are as follows. Groundwater sampling will continue for the Far Field wells and Phase IIa wells. Soil sampling will be initiated at Demo Area 1 in accordance with the Workplan for Completion of Phase I Activities.

TABLE 1  
 SAMPLING PROGRESS  
 4/26-4/30

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
15MW0005E	FIELDQC	4/28/1999	FIELDQC	0	0
27MW0017BE	FIELDQC	4/29/1999	FIELDQC	0	0
27MW0017BF	FIELDQC	4/30/1999	FIELDQC	0	0
27MW0017BT	FIELDQC	4/30/1999	FIELDQC	0	0
W50DDT	FIELDQC	4/27/1999	FIELDQC	0	0
W51M1F	FIELDQC	4/26/1999	FIELDQC	0	0
W51M1T	FIELDQC	4/26/1999	FIELDQC	0	0
W52M2T	FIELDQC	4/29/1999	FIELDQC	0	0
W52SST	FIELDQC	4/28/1999	FIELDQC	0	0
15MW0005	15MW0005	4/28/1999	GROUNDWATER	119	129
27MW0011A	27MW0011A	4/29/1999	GROUNDWATER	70	75
27MW0017B	27MW0017B	4/30/1999	GROUNDWATER	21	26
27MW0017BD	27MW0017B	4/30/1999	GROUNDWATER	21	26
W50DDA	MW-50D	4/27/1999	GROUNDWATER	120.5	130.5
W50DDD	MW-50D	4/27/1999	GROUNDWATER	120.5	130.5
W50M1A	MW-50M1	4/27/1999	GROUNDWATER	90	100
W50M2A	MW-50M2	4/26/1999	GROUNDWATER	59	69
W50M3A	MW-50M3	4/26/1999	GROUNDWATER	29	39
W51DDA	MW-51D	4/26/1999	GROUNDWATER	130	140
W51M1A	MW-51M1	4/27/1999	GROUNDWATER	90	100
W51M1D	MW-51M1	4/27/1999	GROUNDWATER	90	100
W51M2A	MW-51M2	4/27/1999	GROUNDWATER	60.5	70.5
W51M3A	MW-51M3	4/28/1999	GROUNDWATER	40.5	40.5
W52M1A	MW-52M1	4/28/1999	GROUNDWATER	139	149
W52M2A	MW-52M2	4/29/1999	GROUNDWATER	74	84
W52SSA	MW-52S	4/28/1999	GROUNDWATER	0	10
W54M1A	MW-54M1	4/30/1999	GROUNDWATER	80	90
W54SSA	MW-54S	4/30/1999	GROUNDWATER	0	10
SC4401	SOIL CUTTINGS	4/27/1999	IDW	0	0
SC4402	SOIL CUTTINGS	4/27/1999	IDW	0	0
SC7201	SOIL CUTTINGS	4/27/1999	IDW	0	0
SC7202	SOIL CUTTINGS	4/27/1999	IDW	0	0

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 feet below water table for groundwater

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

TABLE 2  
DETECTED COMPOUNDS-UNVALIDATED  
SAMPLES COLLECTED 4/19/99-4/30/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	LAB_METHOD	OGDEN_ANALYTE	PDA
27MW0017A	27MW0017A	4/19/1999	GROUNDWATE	65	70	8330N	1,3,5-TRINITROBENZENE	
27MW0017A	27MW0017A	4/19/1999	GROUNDWATE	65	70	8330N	1,3-DINITROBENZENE	
27MW0017A	27MW0017A	4/19/1999	GROUNDWATE	65	70	8330N	2,4-DIAMINO-6-NITROTOLUENE	
27MW0017A	27MW0017A	4/19/1999	GROUNDWATE	65	70	8330N	3-NITROTOLUENE	
27MW0017A	27MW0017A	4/19/1999	GROUNDWATE	65	70	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	
27MW0017A	27MW0017A	4/19/1999	GROUNDWATE	65	70	8330N	NITROGLYCERIN	
27MW0017A	27MW0017A	4/19/1999	GROUNDWATE	65	70	8330N	PICRIC ACID	
90MW0005	90MW0005	4/19/1999	GROUNDWATE	98	103	8330N	1,3,5-TRINITROBENZENE	
90MW0005	90MW0005	4/19/1999	GROUNDWATE	98	103	8330N	NITROGLYCERIN	
90WT0015	90WT0015	4/23/1999	GROUNDWATE	0	10	8330N	NITROGLYCERIN	NO
HD23H1AAA	23H	4/20/1999	SOIL GRID	0"	6"	8330N	NITROGLYCERIN	YES

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)  
PDA/YES = Photo Diode Array, Detect Confirmed  
PDA/NO = Photo Diode Array, Detect Not Confirmed