WEEKLY PROGRESS UPDATE
FOR FEBRUARY 21 – FEBRUARY 25, 2000

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 February 21 to February 25, 2000.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of February 25 is summarized in Table 1.

Table 1. Drilling progress as of February 25, 2000

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-87	Impact Area Response Well (P-16)	245	111	
MW-86	Impact Area Response Well (P-12)	251	113	

bgs = below ground surface
bwt = below water table

Drilling was completed at MW-86 (Impact Area response well P-12) and on MW-87 (Impact Area response well P-16). UXO clearance continued on Turpentine Road and at the Impact Area response well pads.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected during drilling at the borings for MW-86 and –87. Soil samples were also collected from the boring for MW-87. Soil samples were collected from the area located just upgradient of the MW-26/MW-59 drill pad (Area 2), in accordance with the Impact Area Response Plan. Soil sampling continued on the Gun and Mortar positions at former GP-2 (Area 52), former GP-15 (Area 64), former GP-19 (Area 66), and former F Range (Area 78).

The Guard, EPA, and MADEP had a meeting on February 24 to discuss technical issues, including the following:

- Jacobs Engineering presented an update of the CS-19 investigation. They are currently installing wells at 58MW0015 located at the center of the CS-19 area. Water table was encountered at 118 feet bgs. No VOC detected in the profile samples and RDX detected at 135' to 140' bgs at a concentration of 0.38 ppb. Screen intervals of 130' to 140' bgs and 160' to 170' bgs have been selected. The location of 58MW0016 my need to be moved, pending discussion with agencies.

- The Water Supply Investigation is currently drilling on site #2 and the groundwater sampling on all newly installed wells should be completed next week.

- Tetra Tech presented an update of the Munitions Survey. Brush crews are working on the trails at GP-7, GP-5, P-10, GP-11, GP-14, GP-16, MP-5, and MP-8. Geophysics has been completed at all gun positions except GP-4, GP-10 and GP-11. Performed a reconnaissance of Old H and the J-3 wetland with EPA on Wednesday. Demo 1 UXO crews are in the bowl but brush clearing is on hold due to UXO found. EOD is scheduled to look at the UXO on Monday. The Guard asked if the delays at Demo 1 are going to effect the schedule. Tetra Tech indicated that they could make up time by

adding additional personnel. EPA asked that an update be provided to the 1/12/00 schedule. The Guard asked if that schedule included Appendix C and Tetra Tech indicated that it did include Appendix C. EPA asked to have the one comprehensive schedule for next week's Tech Meeting.

- Ogden presented an update of the RRA. The draft work plan is scheduled to be delivered on Wednesday March 1st to the agencies, IART members, and to the SMB. The letter to EPA on the request to reuse the rocks from the berm maintenance program will be sent out tomorrow.

- Ogden presented an update of the Groundwater Investigation. Drilling is complete at MW-86 (P-12) and screen selection is needed today. Drilling should be complete by the end of the day on MW-87 (P-16) and will need to select screens on Monday. Soil sampling at gun and mortar positions should be completed this week. UXO crews continue to clear impact area response well pads along Turpentine Road. The new groundwater profile sampling system should be ready for the next boring (MW-88). A third drill rig could be mobilized next week. With respect to the schedule, there are no changes from the version provided 2/3/00.

- EPA indicated that the responses to the perchlorate comments were OK. EPA provided the following specific comments on the draft Response Plan for RDX Detections at DP-8&9 and 90MW0022: page 1, 3rd paragraph, 2nd sentence, insert "from select drive point locations" after "collected"; please add wells ECPZSNP03B and C to the proposed response wells; note that wells ECMWSNP03S and D and ECMWSNP02S and D on Figure 1 should be green (already sampled). MADEP will expedite their comments on this plan.

- EPA requested more information on an Ogden reported detection of EDB. Ogden indicated that on the last round of sampling of the Snake Pond drive point sampling, EDB was detected in 02D. EPA asked if Tech Memo 99-6 was distributed to everyone on the IART list. Ogden indicated that is was. EPA asked if the Guard was aware of the status of the PIP. The Guard indicated that they were informed that it was disapproved. EPA requested that Tetra Tech give an update of the munitions survey at a future IART meeting but not at the next meeting due to time constraints.

- The status of the IART Action Items were discussed and are as follows:

  - EPA to check with JPO on status of the modeling presentation.
  - Guard to check that OPTEC provides Dick Judge a copy of the meeting minutes.
  - The Public Involvement Plan will be distributed to IART members for review.
  - Guard will provide an oral update of ASP inventory at the next meeting.
  - Guard to check with JPO that a legible copy of the CHPPM report was distributed to the IART members.
  - The requests relating to SAR sampling (items 6, 7, 8) have been take under advisement.
  - The request to perform additional investigations due to the detection of explosives at MW-78 has been take under advisement.
  - Snow date has been scheduled.

- The screens were selected for MW-86 (P-12). The draft boring log was faxed yesterday and a 1-page data table and draft cross section were distributed at the meeting. It was agreed to set the three screens at the water table, 20' to 30' bwt, and 70' to 80' bwt.

- A site walk of the J-2 Range was conducted prior to the Technical meeting. The areas/activities that need to be addressed in the workplan include the following:

- The melt pour area
- The apparent OD area and other depression near the tank
- The small arms debris area near Barlow Road
- The "U" berm firing point
- The berm with the steel plate and nearby ovens
- Demolition debris piles or hummocks
- The tank firing point
- Groundwater flow direction and impacts
- Portions of the range for munitions survey

- Ogden indicated that MIT has requested a 60-day extension on the 104e request. EPA stated that 30 days is the standard EPA extension. The draft plan is due on April 7 and with a 30 day extension, would have the MIT information arriving at the same time. Any new information obtained from MIT could be incorporated in the final plan.

- The Guard indicated that the turkey hunting season is April 24-28 and May 1-5.

- Ogden distributed a data table with modifications to make it easier to read, for review and comment.

- Ogden requested the status of the e-mail sent to EPA on drinking water criteria. EPA stated that they need to review and respond.

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 VOC analyses for groundwater profile samples, are conducted in this timeframe. 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 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. Most explosive detections verified by PDA are confirmed to be present upon completion of validation. Table 3 includes the following detections:

- The second round groundwater sample from MW-58S had detections of RDX and HMX, which were verified by PDA spectra. These compounds were also present in the first round sample.

- Groundwater profile samples from MW-86 (Impact Area Response Well P-12) had detections of 1,3,5-trinitrobenzene (9 intervals), 1,3-dinitrobenzene (3 intervals), 2-amino-4,6-dinitrobenzene (2 intervals), 3-nitrotoluene (4 intervals), 4-nitrotoluene (4 intervals), nitroglycerin (12 intervals), RDX (2 intervals), 2-nitrotoluene (1 interval), and PETN (2 intervals). The RDX detections were confirmed by PDA spectra.

- Groundwater profile samples from MW-87 (Impact Area Response Well P-16) had detections of 1,3,5-trinitrobenzene (3 intervals), 1,3-dinitrobenzene (1 interval), 3-nitrotoluene (2 intervals), nitroglycerin (1 interval), RDX (8 intervals), and HMX (3 intervals). The RDX and HMX detections were confirmed by PDA spectra.

3. DELIVERABLES SUBMITTED

No deliverables were submitted during this reporting period:

4. SCHEDULED ACTIONS

Scheduled actions for the week of February 28 include continued UXO clearance of Impact Area response well pads; and completion of the drilling and well installation of Impact Area response wells at location P-12 (MW-86) and P-16 (MW-87). The commencement of the drilling of MW-88 (P-15) is expected.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Crews will continue will continue the Munitions Survey work in Demo 1. Brush clearing is on hold due to UXO located in Demo 1.

TABLE 2
SAMPLING PROGRESS
2/21/00-2/25/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G86IAE	FIELDQC	02/22/2000	FIELDQC	0.00	0.00		
G87AAE	FIELDQC	02/23/2000	FIELDQC	0.00	0.00		
G87GAE	FIELDQC	02/24/2000	FIELDQC	0.00	0.00		
HC52B1BAE	FIELDQC	02/22/2000	FIELDQC	0.00	0.00		
HC52B1BAT	FIELDQC	02/22/2000	FIELDQC	0.00	0.00		
HC52G1AAE	FIELDQC	02/24/2000	FIELDQC	0.00	0.00		
HC52P1AAT	FIELDQC	02/24/2000	FIELDQC	0.00	0.00		
HC52R1AAT	FIELDQC	02/23/2000	FIELDQC	0.00	0.00		
HC66Q1BAE	FIELDQC	02/23/2000	FIELDQC	0.00	0.00		
HC78E1BAE	FIELDQC	02/25/2000	FIELDQC	0.00	0.00		
HC78E1BAT	FIELDQC	02/25/2000	FIELDQC	0.00	0.00		
S87IAE	FIELDQC	02/22/2000	FIELDQC	0.00	0.00		
DW8623	GAC WATER	02/23/2000	IDW				
G86HAA	MW-86	02/22/2000	PROFILE	220.00	220.00	82.00	82.00
G86IAA	MW-86	02/22/2000	PROFILE	230.00	230.00	92.00	92.00
G86JAA	MW-86	02/22/2000	PROFILE	240.00	240.00	102.00	102.00
G86KAA	MW-86	02/22/2000	PROFILE	250.00	250.00	112.00	112.00
G87AAA	MW-87	02/23/2000	PROFILE	140.00	140.00	6.00	6.00
G87BAA	MW-87	02/23/2000	PROFILE	150.00	150.00	16.00	16.00
G87CAA	MW-87	02/23/2000	PROFILE	160.00	160.00	26.00	26.00
G87DAA	MW-87	02/23/2000	PROFILE	170.00	170.00	36.00	36.00
G87DAD	MW-87	02/23/2000	PROFILE	170.00	170.00	36.00	36.00
G87EAA	MW-87	02/23/2000	PROFILE	180.00	180.00	46.00	46.00
G87FAA	MW-87	02/23/2000	PROFILE	190.00	190.00	56.00	56.00
G87GAA	MW-87	02/24/2000	PROFILE	200.00	200.00	66.00	66.00
G87HAA	MW-87	02/24/2000	PROFILE	210.00	210.00	76.00	76.00
G87IAA	MW-87	02/24/2000	PROFILE	220.00	220.00	86.00	86.00
G87JAA	MW-87	02/24/2000	PROFILE	230.00	230.00	96.00	96.00
G87KAA	MW-87	02/24/2000	PROFILE	240.00	240.00	106.00	106.00
G87LAA	MW-87	02/24/2000	PROFILE	245.00	245.00	111.00	111.00
S87IAA	87I	02/22/2000	SOIL BORING	70.00	72.00		
S87JAA	87J	02/22/2000	SOIL BORING	80.00	82.00		
S87KAA	87K	02/22/2000	SOIL BORING	90.00	92.00		
S87LAA	87L	02/22/2000	SOIL BORING	100.00	102.00		
S87MAA	87M	02/22/2000	SOIL BORING	110.00	112.00		
S87NAA	87N	02/22/2000	SOIL BORING	120.00	122.00		
S87OAA	87O	02/22/2000	SOIL BORING	130.00	132.00		
HC02P1AAA	02P	02/25/2000	SOIL GRID	0.00	0.25		
HC02P1AAD	02P	02/25/2000	SOIL GRID	0.00	0.25		
HC02P1BAA	02P	02/25/2000	SOIL GRID	0.25	0.50		
HC02P1CAA	02P	02/25/2000	SOIL GRID	0.50	1.00		
HC02Q1AAA	02Q	02/25/2000	SOIL GRID	0.00	0.25		
HC02Q1BAA	02Q	02/25/2000	SOIL GRID	0.25	0.50		

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
2/21/00-2/25/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC02Q1CAA	02Q	02/25/2000	SOIL GRID	0.50	1.00		
HC02R1AAA	02R	02/25/2000	SOIL GRID	0.00	0.25		
HC02R1BAA	02R	02/25/2000	SOIL GRID	0.25	0.50		
HC02R1CAA	02R	02/25/2000	SOIL GRID	0.50	1.00		
HC02R1CAD	02R	02/25/2000	SOIL GRID	0.50	1.00		
HC02S1AAA	02S	02/25/2000	SOIL GRID	0.00	0.25		
HC02S1BAA	02S	02/25/2000	SOIL GRID	0.25	0.50		
HC02S1CAA	02S	02/25/2000	SOIL GRID	0.50	1.00		
HC02T1AAA	02T	02/25/2000	SOIL GRID	0.00	0.25		
HC02T1BAA	02T	02/25/2000	SOIL GRID	0.25	0.50		
HC02T1CAA	02T	02/25/2000	SOIL GRID	0.50	1.00		
HC52B1AAA	52B	02/22/2000	SOIL GRID	0.00	0.50		
HC52B1BAA	52B	02/22/2000	SOIL GRID	1.50	2.00		
HC52C1AAA	52C	02/22/2000	SOIL GRID	0.00	0.50		
HC52C1BAA	52C	02/22/2000	SOIL GRID	1.50	2.00		
HC52E1AAA	52E	02/24/2000	SOIL GRID	0.00	0.50		
HC52E1BAA	52E	02/24/2000	SOIL GRID	1.50	2.00		
HC52F1AAA	52F	02/22/2000	SOIL GRID	0.00	0.50		
HC52F1BAA	52F	02/22/2000	SOIL GRID	1.50	2.00		
HC52G1AAA	52G	02/24/2000	SOIL GRID	0.00	0.50		
HC52G1BAA	52G	02/24/2000	SOIL GRID	1.50	2.00		
HC52H1AAA	52H	02/24/2000	SOIL GRID	0.00	0.50		
HC52H1BAA	52H	02/24/2000	SOIL GRID	1.50	2.00		
HC52I1AAA	52I	02/22/2000	SOIL GRID	0.00	0.50		
HC52I1BAA	52I	02/22/2000	SOIL GRID	1.50	2.00		
HC52I1BAD	52I	02/22/2000	SOIL GRID	1.50	2.00		
HC52J1AAA	52J	02/23/2000	SOIL GRID	0.00	0.50		
HC52J1BAA	52J	02/23/2000	SOIL GRID	1.50	2.00		
HC52K1AAA	52K	02/22/2000	SOIL GRID	0.00	0.50		
HC52K1BAA	52K	02/22/2000	SOIL GRID	1.50	2.00		
HC52L1AAA	52L	02/23/2000	SOIL GRID	0.00	0.50		
HC52L1BAA	52L	02/23/2000	SOIL GRID	1.50	2.00		
HC52M1AAA	52M	02/22/2000	SOIL GRID	0.00	0.50		
HC52M1AAD	52M	02/22/2000	SOIL GRID	0.00	0.50		
HC52M1BAA	52M	02/22/2000	SOIL GRID	1.50	2.00		
HC52O1AAA	52O	02/23/2000	SOIL GRID	0.00	0.50		
HC52O1BAA	52O	02/23/2000	SOIL GRID	1.50	2.00		
HC52Q1AAA	52Q	02/23/2000	SOIL GRID	0.00	0.50		
HC52Q1BAA	52Q	02/23/2000	SOIL GRID	1.50	2.00		
HC64D1AAA	64D	02/24/2000	SOIL GRID	0.00	0.50		
HC64D1BAA	64D	02/24/2000	SOIL GRID	1.50	2.00		
HC64G1BAA	64G	02/24/2000	SOIL GRID	1.50	2.00		
HC64H1BAA	64H	02/24/2000	SOIL GRID	1.50	2.00		
HC64I1BAA	64I	02/24/2000	SOIL GRID	1.50	2.00		

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
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
2/21/00-2/25/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC66A1BAA	66A	02/24/2000	SOIL GRID	1.50	2.00		
HC66B1BAA	66B	02/24/2000	SOIL GRID	1.50	2.00		
HC66C1AAA	66C	02/23/2000	SOIL GRID	0.00	0.50		
HC66C1BAA	66C	02/24/2000	SOIL GRID	1.50	2.00		
HC66E1BAA	66E	02/24/2000	SOIL GRID	1.50	2.00		
HC66G1AAA	66G	02/22/2000	SOIL GRID	0.00	0.50		
HC66G1BAA	66G	02/22/2000	SOIL GRID	1.50	2.00		
HC66I1BAA	66I	02/24/2000	SOIL GRID	1.50	2.00		
HC66J1AAA	66J	02/22/2000	SOIL GRID	0.00	0.50		
HC66J1BAA	66J	02/22/2000	SOIL GRID	1.50	2.00		
HC66K1AAA	66K	02/22/2000	SOIL GRID	0.00	0.50		
HC66K1BAA	66K	02/22/2000	SOIL GRID	1.50	2.00		
HC66L1AAA	66L	02/22/2000	SOIL GRID	0.00	0.50		
HC66L1BAA	66L	02/22/2000	SOIL GRID	1.50	2.00		
HC66M1AAA	66M	02/23/2000	SOIL GRID	0.00	0.50		
HC66M1AAD	66M	02/23/2000	SOIL GRID	0.00	0.50		
HC66M1BAA	66M	02/23/2000	SOIL GRID	1.50	2.00		
HC66N1AAA	66N	02/22/2000	SOIL GRID	0.00	0.50		
HC66N1BAA	66N	02/22/2000	SOIL GRID	1.50	2.00		
HC66O1AAA	66O	02/22/2000	SOIL GRID	0.00	0.50		
HC66O1BAA	66O	02/22/2000	SOIL GRID	1.50	2.00		
HC66P1AAA	66P	02/23/2000	SOIL GRID	0.00	0.50		
HC66P1BAA	66P	02/23/2000	SOIL GRID	1.50	2.00		
HC66Q1AAA	66Q	02/23/2000	SOIL GRID	0.00	0.50		
HC66Q1BAA	66Q	02/23/2000	SOIL GRID	1.50	2.00		
HC66R1AAA	66R	02/23/2000	SOIL GRID	0.00	0.50		
HC66R1BAA	66R	02/23/2000	SOIL GRID	1.50	2.00		
HC78E1AAA	78E	02/25/2000	SOIL GRID	0.00	0.50		
HC78E1BAA	78E	02/25/2000	SOIL GRID	1.50	2.00		
HC78F1BAA	78F	02/25/2000	SOIL GRID	1.50	2.00		

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
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 2/21/00-2/25/00

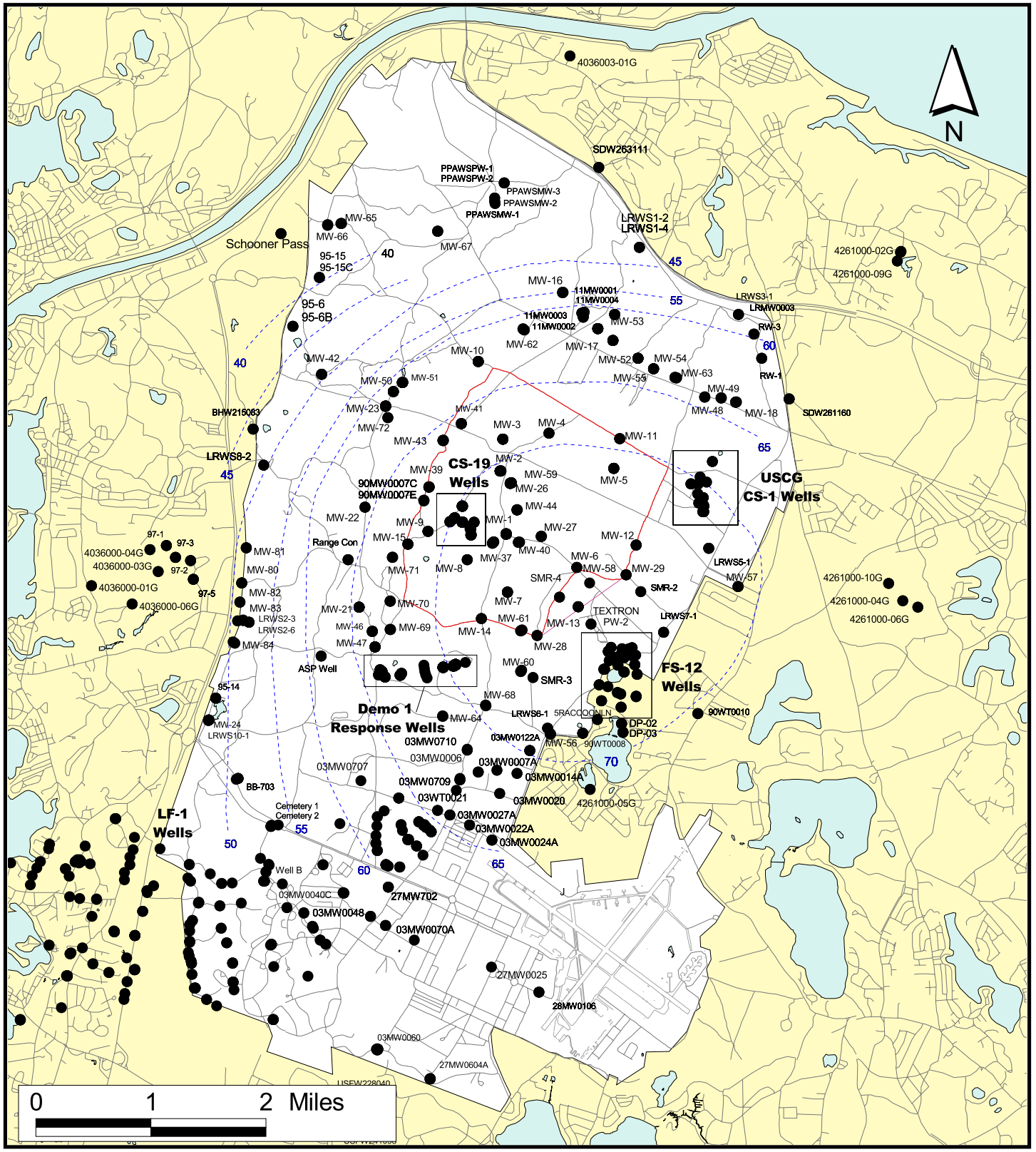
OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W58SSA	MW-58	02/15/2000	GROUNDWATER	100.00	110.00	-3.53	6.47	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W58SSA	MW-58	02/15/2000	GROUNDWATER	100.00	110.00	-3.53	6.47	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W71M1A	MW-71	02/08/2000	GROUNDWATER	180.00	190.00	18.82	28.82	8330N	1,3,5-TRINITROBENZENE	NO
G86AAA	MW-86	02/17/2000	PROFILE	150.00	150.00	12.00	12.00	8330N	1,3,5-TRINITROBENZENE	NO
G86AAA	MW-86	02/17/2000	PROFILE	150.00	150.00	12.00	12.00	8330N	1,3-DINITROBENZENE	NO
G86AAA	MW-86	02/17/2000	PROFILE	150.00	150.00	12.00	12.00	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G86AAA	MW-86	02/17/2000	PROFILE	150.00	150.00	12.00	12.00	8330N	3-NITROTOLUENE	NO
G86AAA	MW-86	02/17/2000	PROFILE	150.00	150.00	12.00	12.00	8330N	4-NITROTOLUENE	NO
G86AAA	MW-86	02/17/2000	PROFILE	150.00	150.00	12.00	12.00	8330N	NITROGLYCERIN	NO
G86BAA	MW-86	02/17/2000	PROFILE	160.00	160.00	22.00	22.00	8330N	1,3,5-TRINITROBENZENE	NO
G86BAA	MW-86	02/17/2000	PROFILE	160.00	160.00	22.00	22.00	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G86BAA	MW-86	02/17/2000	PROFILE	160.00	160.00	22.00	22.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G86BAA	MW-86	02/17/2000	PROFILE	160.00	160.00	22.00	22.00	8330N	NITROGLYCERIN	NO
G86CAA	MW-86	02/17/2000	PROFILE	170.00	170.00	32.00	32.00	8330N	1,3,5-TRINITROBENZENE	NO
G86CAA	MW-86	02/17/2000	PROFILE	170.00	170.00	32.00	32.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G86CAA	MW-86	02/17/2000	PROFILE	170.00	170.00	32.00	32.00	8330N	NITROGLYCERIN	NO
G86DAA	MW-86	02/18/2000	PROFILE	180.00	180.00	42.00	42.00	8330N	1,3,5-TRINITROBENZENE	NO
G86DAA	MW-86	02/18/2000	PROFILE	180.00	180.00	42.00	42.00	8330N	1,3-DINITROBENZENE	NO
G86DAA	MW-86	02/18/2000	PROFILE	180.00	180.00	42.00	42.00	8330N	3-NITROTOLUENE	NO
G86DAA	MW-86	02/18/2000	PROFILE	180.00	180.00	42.00	42.00	8330N	4-NITROTOLUENE	NO
G86DAA	MW-86	02/18/2000	PROFILE	180.00	180.00	42.00	42.00	8330N	NITROGLYCERIN	NO
G86EAA	MW-86	02/18/2000	PROFILE	190.00	190.00	52.00	52.00	8330N	1,3,5-TRINITROBENZENE	NO
G86EAA	MW-86	02/18/2000	PROFILE	190.00	190.00	52.00	52.00	8330N	NITROGLYCERIN	NO
G86EAD	MW-86	02/18/2000	PROFILE	190.00	190.00	52.00	52.00	8330N	1,3,5-TRINITROBENZENE	NO
G86EAD	MW-86	02/18/2000	PROFILE	190.00	190.00	52.00	52.00	8330N	NITROGLYCERIN	NO
G86FAA	MW-86	02/18/2000	PROFILE	200.00	200.00	62.00	62.00	8330N	1,3,5-TRINITROBENZENE	NO
G86FAA	MW-86	02/18/2000	PROFILE	200.00	200.00	62.00	62.00	8330N	NITROGLYCERIN	NO
G86GAA	MW-86	02/18/2000	PROFILE	210.00	210.00	72.00	72.00	8330N	1,3,5-TRINITROBENZENE	NO
G86GAA	MW-86	02/18/2000	PROFILE	210.00	210.00	72.00	72.00	8330N	NITROGLYCERIN	NO
G86HAA	MW-86	02/22/2000	PROFILE	220.00	220.00	82.00	82.00	8330N	NITROGLYCERIN	NO
G86IAA	MW-86	02/22/2000	PROFILE	230.00	230.00	92.00	92.00	8330N	NITROGLYCERIN	NO
G86JAA	MW-86	02/22/2000	PROFILE	240.00	240.00	102.00	102.00	8330N	1,3,5-TRINITROBENZENE	NO
G86JAA	MW-86	02/22/2000	PROFILE	240.00	240.00	102.00	102.00	8330N	1,3-DINITROBENZENE	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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 2/21/00-2/25/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G86JAA	MW-86	02/22/2000	PROFILE	240.00	240.00	102.00	102.00	8330N	2-NITROTOLUENE	NO
G86JAA	MW-86	02/22/2000	PROFILE	240.00	240.00	102.00	102.00	8330N	3-NITROTOLUENE	NO
G86JAA	MW-86	02/22/2000	PROFILE	240.00	240.00	102.00	102.00	8330N	4-NITROTOLUENE	NO
G86JAA	MW-86	02/22/2000	PROFILE	240.00	240.00	102.00	102.00	8330N	NITROGLYCERIN	NO
G86JAA	MW-86	02/22/2000	PROFILE	240.00	240.00	102.00	102.00	8330N	PENTAERYTHRITOL TETRANITF	NO
G86KAA	MW-86	02/22/2000	PROFILE	250.00	250.00	112.00	112.00	8330N	3-NITROTOLUENE	NO
G86KAA	MW-86	02/22/2000	PROFILE	250.00	250.00	112.00	112.00	8330N	4-NITROTOLUENE	NO
G86KAA	MW-86	02/22/2000	PROFILE	250.00	250.00	112.00	112.00	8330N	NITROGLYCERIN	NO
G86KAA	MW-86	02/22/2000	PROFILE	250.00	250.00	112.00	112.00	8330N	PENTAERYTHRITOL TETRANITF	NO
G87AAA	MW-87	02/23/2000	PROFILE	140.00	140.00	6.00	6.00	8330N	1,3,5-TRINITROBENZENE	NO
G87AAA	MW-87	02/23/2000	PROFILE	140.00	140.00	6.00	6.00	8330N	1,3-DINITROBENZENE	NO
G87AAA	MW-87	02/23/2000	PROFILE	140.00	140.00	6.00	6.00	8330N	NITROGLYCERIN	NO
G87CAA	MW-87	02/23/2000	PROFILE	160.00	160.00	26.00	26.00	8330N	3-NITROTOLUENE	NO
G87DAA	MW-87	02/23/2000	PROFILE	170.00	170.00	36.00	36.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G87DAD	MW-87	02/23/2000	PROFILE	170.00	170.00	36.00	36.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G87EAA	MW-87	02/23/2000	PROFILE	180.00	180.00	46.00	46.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G87FAA	MW-87	02/23/2000	PROFILE	190.00	190.00	56.00	56.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G87GAA	MW-87	02/24/2000	PROFILE	200.00	200.00	66.00	66.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G87GAA	MW-87	02/24/2000	PROFILE	200.00	200.00	66.00	66.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
G87HAA	MW-87	02/24/2000	PROFILE	210.00	210.00	76.00	76.00	8330N	1,3,5-TRINITROBENZENE	NO
G87HAA	MW-87	02/24/2000	PROFILE	210.00	210.00	76.00	76.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G87HAA	MW-87	02/24/2000	PROFILE	210.00	210.00	76.00	76.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
G87IAA	MW-87	02/24/2000	PROFILE	220.00	220.00	86.00	86.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G87IAA	MW-87	02/24/2000	PROFILE	220.00	220.00	86.00	86.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
G87JAA	MW-87	02/24/2000	PROFILE	230.00	230.00	96.00	96.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G87LAA	MW-87	02/24/2000	PROFILE	245.00	245.00	111.00	111.00	8330N	1,3,5-TRINITROBENZENE	NO
G87LAA	MW-87	02/24/2000	PROFILE	245.00	245.00	111.00	111.00	8330N	3-NITROTOLUENE	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



Sources & Notes

Map Coordinates: Stateplane,
NAD83, Zone 4151, Meters
Source: MASSGIS

Location of Existing and Proposed Groundwater Monitoring Wells As Of 12/16/99

L:\MMR\GIS\december99\weekly_figs\dec1699_wells
G:\MMR\well_updates.apr December 20, 1999

December 16, 1999 DRAFT