WEEKLY PROGRESS UPDATE
FOR APRIL 24 – APRIL 28, 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 April 24 to April 28, 2000.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of April 28 is summarized in Table 1.

Table 1. Drilling progress as of April 28, 2000

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-97	Impact Area Response Well (P-11)	245	120	140-150 185-195 235-245
MW-98	Impact Area Response Well (P-2)	220	81	137-147 164-174
MW-99	Impact Area Response Well (P-3)	220	85	
MW-100	Impact Area Response Well (P-4)	52		
MW-101	Impact Area Response Well (P-5)	32		

bgs = below ground surface
bwt = below water table

Well installation was completed at MW-97 (Impact Area response well P-11) and MW-98 (Impact Area response well P-2). Drilling was completed on MW-99 (Impact Area response well P-3). Drilling commenced on MW-100 and MW-101 (Impact Area response wells P-4 and P-5). UXO clearance continued for the three remaining Impact Area response well pads and the ground scars, bunkers, and trenches. The development of newly installed wells continued.

Samples collected during the reporting period are summarized in Table 2. Soil samples were collected from the craters of the UXO detonated last week at the Target 9 pad, P-20 pad, P-19 pad, and the J-Range. Groundwater sampling continued for the third round of Gun and Mortar Position wells and the additional IRP wells in the FS-12 area. Groundwater sampling commenced for the Impact Area response wells. Groundwater profile samples were collected from MW-99 (P-3). Deep soil samples were collected during drilling at the boring for MW-99 (P-3), MW-100 (P-4), and MW-101 (P-5).

The Guard, EPA, and MADEP had a meeting on April 27 to discuss technical issues, including the following:

- Ogden presented an update on the Rapid Response Action. Responses to comments are being reviewed by the Guard and should be delivered to the Agencies next week. Ogden requested a meeting with the agencies during the second week in May to go over the response to comments. The UXO avoidance has commenced on the KD Range. A draft FSP is being prepared to allow sample collection to begin. The FSP is designed around the proposed cleanup standards. If the cleanup standards change, then the FSP will be revised. The FSP is currently being reviewed by the Guard and should be ready next week. The J-3 Wetland NOI has been completed and a meeting with the

Sandwich Conservation Commission has been scheduled for next week. The updated schedule will be distributed next week. There will be a poster board session on Saturday at the Mashpee High School.

- Jacobs presented an update on the CS-19 investigation. A 7-page handout of the technical update and a 2-page revised schedule were distributed. A revised water table map was included with the update handout, and a map showing backtracks from the detections at 58MW0018. The backtrack from the detection at 58MW0018 passes under the MW-2 area and goes back to the Turpentine Road area. Jacobs indicated that the surface and subsurface soil data are complete. EPA asked if the Dioxin TEFs have been calculated. Jacobs indicated that they have been calculated for surface soil. EPA asked if CS-19 was on the JPAT agenda. Jacobs indicated that they were not sure.
- EPA requested that a plume be drawn for CS-19, allowing for the upgradient detections. Jacobs indicated that there may not be sufficient data to map the plume, although they could display the detections on a map. There was a discussion of which IAGS wells were included in the IRP sampling. EPA requested a conference call with AFCEE, Jacobs, and EPA next week to continue this discussion.
- The discussion of plume mapping continued but turned to Demo 1. EPA asked that the plume for Demo 1, drawn for the 12/15/99 IART Meeting, be updated based on the monitoring well data. This plume should be shown consistently as an inset on maps for the public meetings and progress reports. ZOCs should be added to this map, including future supply well ZOCs that are available. The Guard indicated that these changes would be made. EPA also asked that a modified explosive detection map be prepared for the next IART meeting, showing ZOCs and removing the labels from wells with nondetects.
- The discussion of plume mapping turned to the Impact Area. There was discussion regarding how to proceed with mapping the profile results. EPA suggested graying or coloring the area of contaminated borings in plan view. It was agreed that cross-sections used by the technical team will be presented to the IART. A plan view map will be prepared showing profile detections, similar to the current detection maps for wells.
- There was a discussion of how to continue the groundwater investigation in the Impact Area. This will be an agenda item for the technical team meeting on 5/11. Additional response wells will be evaluated so that planning and funding can be expedited.
- There was no update of the Water Supply Investigation.
- Tetra Tech presented an update of the Munitions Survey investigation. The geophysical investigation of the water bodies will commence next week and should be completed in two weeks. The slit trench survey will start after the water bodies have been completed. J-2 Range brush clearing continues and the work plan is being finalized.
- Ogden provided an update on the Groundwater Study investigation. The drilling of MW-99 (P-3) should finish today and will need to select screens on a Monday conference call. Drilling just commenced on MW-100 (P-4) and MW-101 (P-5). Continue to develop the newly installed wells. UXO crews will complete the trench UXO clearance next week. Continue groundwater sampling of the third round of Gun and Mortar wells and continue to sample the ten additional IRP wells in the FS-12 area. Access was denied from the property owner where well 90PZ0204 is located. New coordinates for the 90MW0069 well have been obtained from Jacobs and another attempt to locate this well will be performed. The drive point wells in Snake Pond ECPZSNP03B and ECPZSNP03C were not located. It was agreed that the Impact Area Response well P-17 should be relocated 300' to 400' north of the revised P-21 location.
- The Technical meeting on 5/4 will be at 10:00. Ogden presented an update on the Rapid Response Action. Responses to comments are being reviewed by the Guard and should be delivered to the Agencies next week. Ogden requested a meeting with the agencies during the second week in May to go over the response to comments. The UXO avoidance has commenced on the KD Range. A draft FSP is being prepared to allow sample collection to begin. The FSP is designed around the proposed cleanup standards. If the cleanup standards change, then the FSP will be revised. The FSP is

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- The Technical meeting on 5/4 will be at 10:00.

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 groundwater sample from MW-40M1 in April 2000 had a detection of RDX, which was verified by PDA spectra. RDX was detected in this well during the two previous sampling events in 1999.

- The groundwater sample from MW-44S in April 2000 had a detection of 4-amino-2,6-dinitrotoluene, which was verified by PDA spectra. This compound was previously detected in this well during the January 2000 sampling event, but not during 1999.

- The groundwater profile samples from MW-97 had detections of 1,3,5-trinitrobenzene (1 interval) and nitroglycerin (1 interval), which were not verified by PDA spectra.

- The groundwater profile samples from MW-99 had detections of 2,6-dinitrotoluene (1 interval), 2-amino-4,6-dinitrotoluene (1 interval), 3-nitrotoluene (1 interval), 4-nitrotoluene (1 interval), picric acid (1 interval), tetryl (1 interval), and RDX (3 intervals). The RDX was verified by PDA spectra.

3. DELIVERABLES SUBMITTED

Weekly progress update (4/3 to 4/7)	4/28/00
Weekly progress update (4/10 to 4/14)	4/28/00

4. SCHEDULED ACTIONS

Scheduled actions for the week of May 1 include the construction of monitoring wells at MW-99 (P-3); continued drilling of MW-100 (P-4) and MW-101 (P-5); the continued groundwater sampling of round 3 of the Gun and Mortar Position wells; and the continued sampling of the Impact Area response wells. The UXO located at P-19 will be detonated and soil samples will be collected from the craters.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

The geophysical data for Demo 1 are being processed for evaluation of anomalies. Preparation of the draft technical memorandum for the Demo 1 response actions is underway. The draft FS Workplan for AO3 (including Demo 1) is under review by the regulatory agencies and other stakeholders.

TABLE 2
SAMPLING PROGRESS
4/24/00-4/28/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HCJ23.5IN	HCJ23.5IN	04/24/2000	CRATER GRAB	0.00	0.25		
HCJ260MM	HCJ260MM	04/24/2000	CRATER GRAB	0.00	0.25		
HCP19105MM	HCP19105MM	04/24/2000	CRATER GRAB	0.00	0.25		
HCP20155MM	HCP20155MM	04/24/2000	CRATER GRAB	0.00	0.25		
HCT94.2IN	HCT94.2IN	04/24/2000	CRATER GRAB	0.00	0.25		
HCT960MM	HCT960MM	04/24/2000	CRATER GRAB	0.00	0.25		
HCT981MM	HCT981MM	04/24/2000	CRATER GRAB	0.00	0.25		
HDJ23.5IN	HDJ23.5IN	04/24/2000	CRATER GRAB	0.00	0.25		
HDJ260MM	HDJ260MM	04/24/2000	CRATER GRAB	0.00	0.25		
HDJ281MM1	HDJ281MM1	04/24/2000	CRATER GRAB	0.00	0.25		
HDJ2LAW3	HDJ2LAW3	04/24/2000	CRATER GRAB	0.00	0.25		
HDJ2LAW4	HDJ2LAW4	04/24/2000	CRATER GRAB	0.00	0.25		
HDP19105MM	HDP19105MM	04/24/2000	CRATER GRAB	0.00	0.25		
HDP20155MM	HDP20155MM	04/24/2000	CRATER GRAB	0.00	0.25		
HDT94.2IN	HDT94.2IN	04/24/2000	CRATER GRAB	0.00	0.25		
HDT960MM	HDT960MM	04/24/2000	CRATER GRAB	0.00	0.25		
HDT981MM	HDT981MM	04/24/2000	CRATER GRAB	0.00	0.25		
90MW0059A-E	FIELDQC	04/26/2000	FIELDQC	0.00	0.00		
G99DAE	FIELDQC	04/25/2000	FIELDQC	0.00	0.00		
G99DCE	FIELDQC	04/26/2000	FIELDQC	0.00	0.00		
G99DIE	FIELDQC	04/27/2000	FIELDQC	0.00	0.00		
HDT981MM-E	FIELDQC	04/24/2000	FIELDQC	0.00	0.00		
HDT981MM-T	FIELDQC	04/24/2000	FIELDQC	0.00	0.00		
S101DCE	FIELDQC	04/27/2000	FIELDQC	0.00	0.00		
S101DCT	FIELDQC	04/27/2000	FIELDQC	0.00	0.00		
S101DEE	FIELDQC	04/28/2000	FIELDQC	0.00	0.00		
S99DCE	FIELDQC	04/24/2000	FIELDQC	0.00	0.00		
S99DFE	FIELDQC	04/25/2000	FIELDQC	0.00	0.00		
W65M1T	FIELDQC	04/25/2000	FIELDQC	0.00	0.00		
W65M2T	FIELDQC	04/26/2000	FIELDQC	0.00	0.00		
W66M2T	FIELDQC	04/28/2000	FIELDQC	0.00	0.00		
90MW0059A	90MW0059A	04/26/2000	GROUNDWATER	95.00	100.00		
90MW0059B	90MW0059A	04/26/2000	GROUNDWATER	112.00	117.00		
W64SSA	MW-64	04/27/2000	GROUNDWATER	87.00	97.00	-7.59	2.41
W65M1A	MW-65	04/25/2000	GROUNDWATER	210.00	220.00	86.88	96.88
W65M2A	MW-65	04/25/2000	GROUNDWATER	129.00	134.00	5.88	10.88
W65SSA	MW-64	04/27/2000	GROUNDWATER	116.00	126.00	-7.10	2.90
W66M1A	MW-66	04/27/2000	GROUNDWATER	228.00	238.00	99.14	109.14
W66M2A	MW-66	04/27/2000	GROUNDWATER	141.00	151.00	12.20	22.20
W67M1A	MW-67	04/28/2000	GROUNDWATER	243.00	253.00	84.70	94.70
W67SSA	MW-67	04/28/2000	GROUNDWATER	161.00	171.00	2.70	12.70
W86M1A	MW-86	04/28/2000	GROUNDWATER	208.00	218.00	62.32	72.32
W86M2A	MW-86	04/28/2000	GROUNDWATER	158.00	168.00	12.37	22.37
W86SSA	MW-86	04/28/2000	GROUNDWATER	143.00	153.00	-2.59	7.41

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
4/24/00-4/28/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W87M1A	MW-87	04/28/2000	GROUNDWATER	194.00	204.00	59.53	69.53
W87M2A	MW-87	04/28/2000	GROUNDWATER	169.00	179.00	34.42	44.42
W87M3A	MW-87	04/28/2000	GROUNDWATER	140.00	150.00	5.36	15.36
DW0428	GAC WATER	04/28/2000	IDW				
LOC-1		04/25/2000	IDW				
LOC-1FB		04/25/2000	IDW				
LOC-1PS		04/25/2000	IDW				
LOC-2		04/25/2000	IDW				
LOC-3		04/25/2000	IDW				
LOC-3TB		04/25/2000	IDW				
LOC-3TBa		04/25/2000	IDW				
LOC-ER		04/25/2000	IDW				
G99DAA	MW-99	04/25/2000	PROFILE	140.00	140.00	5.00	5.00
G99DBA	MW-99	04/25/2000	PROFILE	150.00	150.00	15.00	15.00
G99DCA	MW-99	04/26/2000	PROFILE	160.00	160.00	25.00	25.00
G99DDA	MW-99	04/26/2000	PROFILE	170.00	170.00	35.00	35.00
G99DDD	MW-99	04/26/2000	PROFILE	170.00	170.00	35.00	35.00
G99DEA	MW-99	04/26/2000	PROFILE	180.00	180.00	45.00	45.00
G99DFA	MW-99	04/26/2000	PROFILE	190.00	190.00	55.00	55.00
G99DGA	MW-99	04/26/2000	PROFILE	200.00	200.00	65.00	65.00
G99DHA	MW-99	04/26/2000	PROFILE	210.00	210.00	75.00	75.00
G99DIA	MW-99	04/27/2000	PROFILE	220.00	220.00	85.00	85.00
G99DID	MW-99	04/27/2000	PROFILE	220.00	220.00	85.00	85.00
S100DCA	MW-100	04/27/2000	SOIL BORING	10.00	14.00		
S100DDA	MW-100	04/27/2000	SOIL BORING	20.00	22.00		
S100DEA	MW-100	04/27/2000	SOIL BORING	30.00	32.00		
S100DFA	MW-100	04/28/2000	SOIL BORING	40.00	42.00		
S100DGA	MW-100	04/28/2000	SOIL BORING	50.00	52.00		
S100DGD	MW-100	04/28/2000	SOIL BORING	50.00	52.00		
S101DCA	MW-101	04/26/2000	SOIL BORING	12.00	14.00		
S101DDA	MW-101	04/27/2000	SOIL BORING	20.00	22.00		
S101DEA	MW-101	04/28/2000	SOIL BORING	30.00	32.00		
S99DCA	MW-99	04/24/2000	SOIL BORING	10.00	12.00		
S99DDA	MW-99	04/24/2000	SOIL BORING	20.00	22.00		
S99DEA	MW-99	04/24/2000	SOIL BORING	30.00	32.00		
S99DFA	MW-99	04/24/2000	SOIL BORING	40.00	42.00		
S99DGA	MW-99	04/25/2000	SOIL BORING	50.00	52.00		
S99DGD	MW-99	04/25/2000	SOIL BORING	50.00	52.00		
S99DHA	MW-99	04/25/2000	SOIL BORING	60.00	62.00		
S99DIA	MW-99	04/25/2000	SOIL BORING	70.00	72.00		
S99DJA	MW-99	04/25/2000	SOIL BORING	80.00	82.00		
S99DKA	MW-99	04/25/2000	SOIL BORING	90.00	92.00		
S99DLA	MW-99	04/25/2000	SOIL BORING	100.00	102.00		
S99DMA	MW-99	04/25/2000	SOIL BORING	110.00	112.00		

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
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SAMPLING PROGRESS
4/24/00-4/28/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
S99DNA	MW-99	04/25/2000	SOIL BORING	120.00	122.00		
S99DOA	MW-99	04/25/2000	SOIL BORING	130.00	132.00		
S99DOD	MW-99	04/25/2000	SOIL BORING	130.00	132.00		
S99DPA	MW-99	04/25/2000	SOIL BORING	140.00	142.00		

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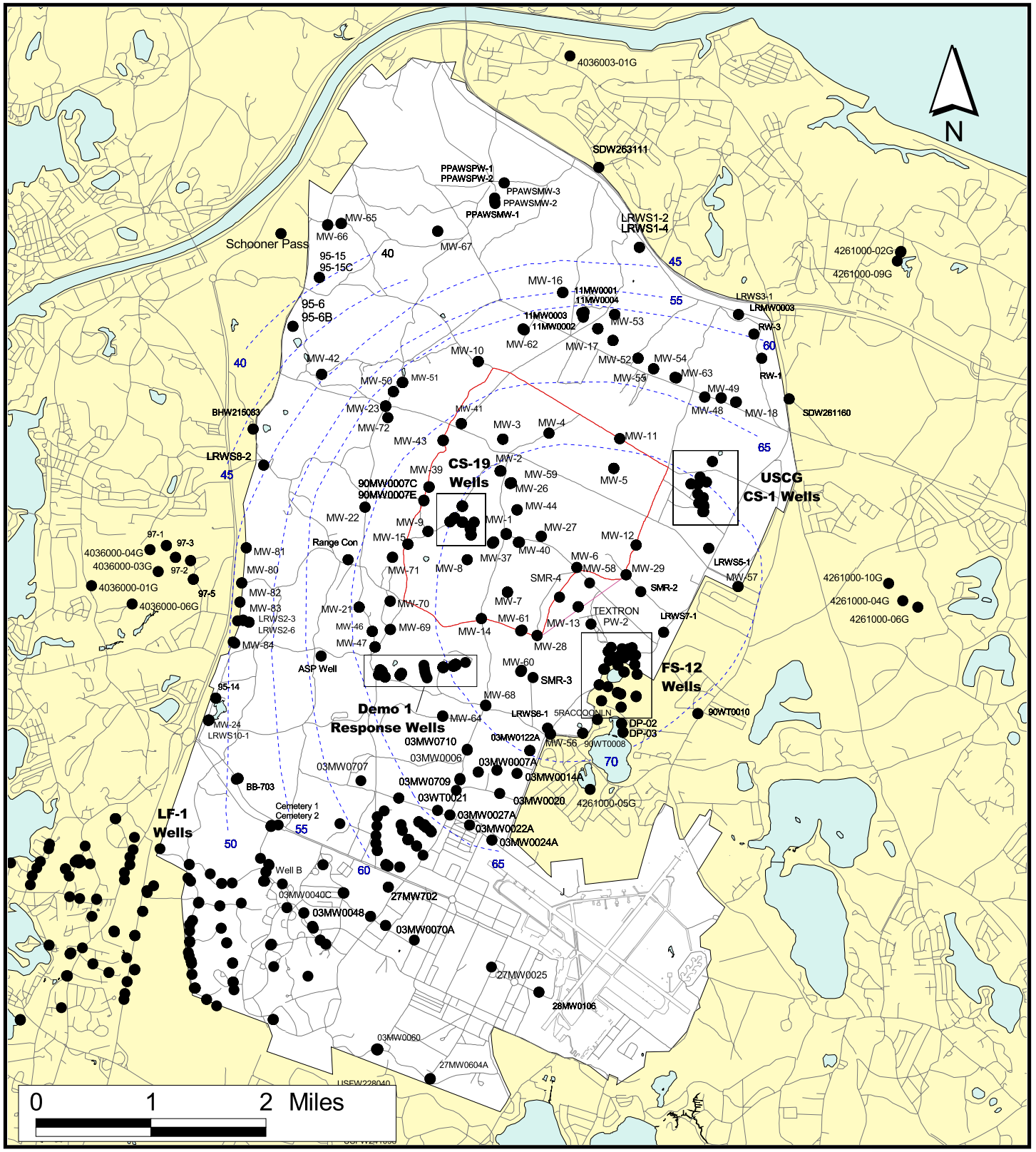
TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/24/00-4/28/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W40M1A	MW-40	04/14/2000	GROUNDWATER	132.50	142.50	11.53	21.53	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W44SSA	MW-44	04/13/2000	GROUNDWATER	123.00	133.00	-6.60	3.40	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
G97DAA	MW-97	04/13/2000	PROFILE	125.00	125.00	0.30	0.30	8330N	1,3,5-TRINITROBENZENE	NO
G97DAA	MW-97	04/13/2000	PROFILE	125.00	125.00	0.30	0.30	8330N	NITROGLYCERIN	NO
G99DAA	MW-99	04/25/2000	PROFILE	140.00	140.00	5.00	5.00	8330N	2,6-DINITROTOLUENE	NO
G99DAA	MW-99	04/25/2000	PROFILE	140.00	140.00	5.00	5.00	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G99DAA	MW-99	04/25/2000	PROFILE	140.00	140.00	5.00	5.00	8330N	3-NITROTOLUENE	NO
G99DAA	MW-99	04/25/2000	PROFILE	140.00	140.00	5.00	5.00	8330N	4-NITROTOLUENE	NO
G99DAA	MW-99	04/25/2000	PROFILE	140.00	140.00	5.00	5.00	8330N	PICRIC ACID	NO
G99DBA	MW-99	04/25/2000	PROFILE	150.00	150.00	15.00	15.00	8330N	TETRYL	NO
G99DFA	MW-99	04/26/2000	PROFILE	190.00	190.00	55.00	55.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G99DGA	MW-99	04/26/2000	PROFILE	200.00	200.00	65.00	65.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G99DHA	MW-99	04/26/2000	PROFILE	210.00	210.00	75.00	75.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES

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



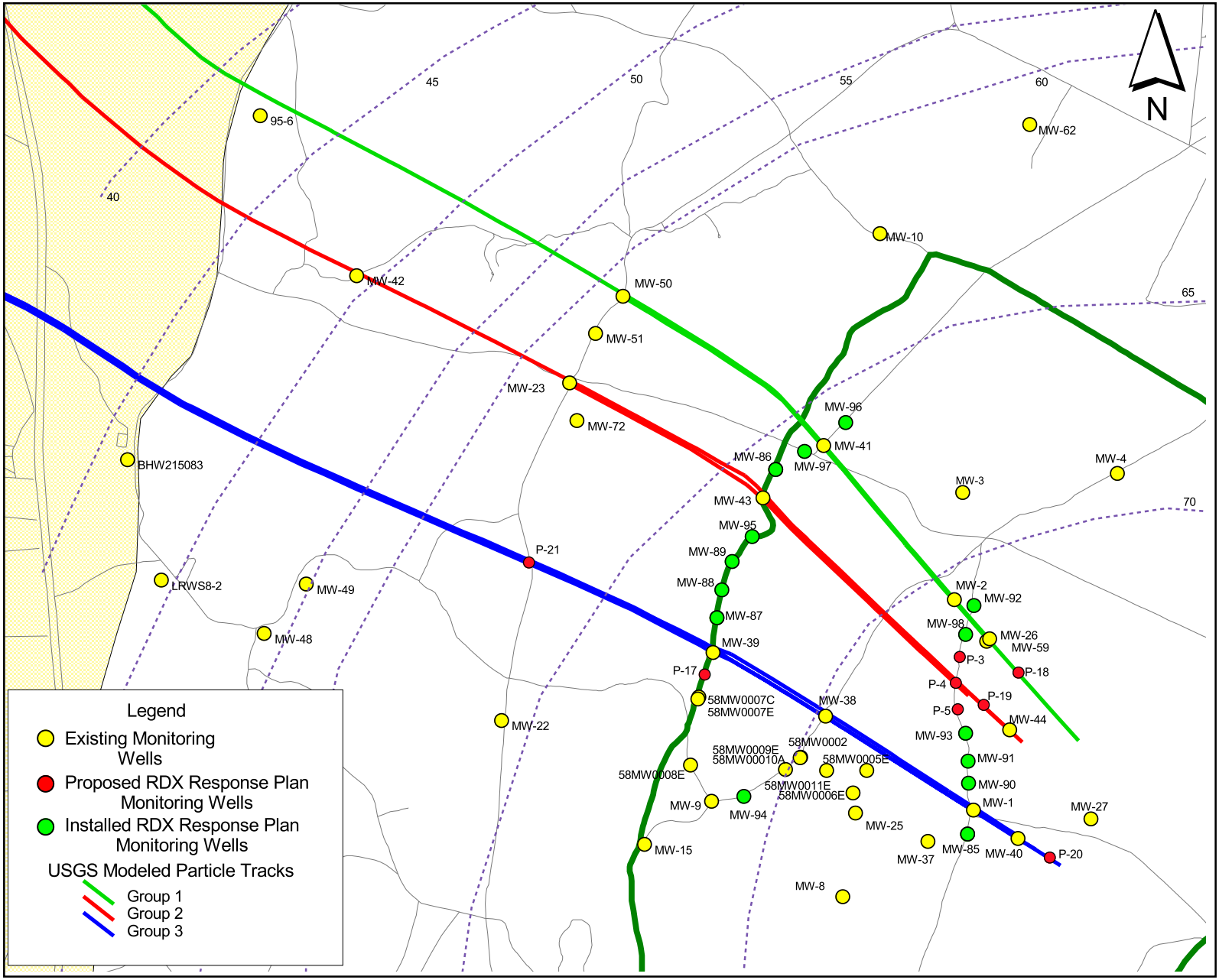
Sources & Notes

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



Proposed RDX Response Plan Wells In The Impact Area

Figure A