WEEKLY PROGRESS UPDATE
FOR APRIL 3 – APRIL 7, 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 3 to April 7, 2000.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of April 7 is summarized in Table 1.

Table 1. Drilling progress as of April 7, 2000

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-93	Impact Area Response Well (P-6)	210	80	145-155 185-195
MW-94	Down gradient of Target 5 Well	230	105	124-134 140-150 160-170
MW-95	Impact Area Response (P-13)	230	103	
MW-96	Impact Area Response Well (P-10)	32		

bgs = below ground surface
bwt = below water table

Well installation was completed at MW-93 (Impact Area response well P-6) and MW-94 (Target 5 well). Drilling continued on MW-95 (Impact Area response well P-13). Drilling commenced on MW-96 (Impact Area response well P-10). UXO clearance continued for the Target 9 drilling pad and commenced on Impact Area response well pads for P-18, P-19, and P-20. The development of newly installed wells continued. Additional UXO was located at the P-18 and P-20 drilling pads.

Samples collected during the reporting period are summarized in Table 2. Groundwater sampling was continued for the third round of Phase IIa wells and the third round of far field Group 2 wells. Groundwater profile samples were collected from MW-95 (P-13), and MW-94 (Target 5 well). Deep soil samples were collected during drilling at the boring for MW-95 and MW-96.

The Guard, EPA, and MADEP had a meeting on April 6 to discuss technical issues, including the following:

- Jacobs provided an update of CS-19 activities. A 3-page handout of the update and a groundwater contour map were distributed. Current activities are on schedule. The subcontractor that is performing the baseline risk assessment will present their findings at next week's tech meeting. The groundwater map that was distributed had some inaccurate well locations that will be corrected for the draft report.

- There was no update of the water supply activities. Based on last week's discussion, the first data from these wells are expected on 4/7/00. EPA stressed the need to get the data from these wells. MADEP indicated DEM has asked for the REC for the latest IAGS field program. Ogden is assisting the Guard with this REC.

- Tetra Tech provided an update of the munitions survey activities. Demo 1 geophysics work is expected to be complete by 4/9/00. The slit trench has been cleared for vegetation and UXO clearance is underway. The geophysics will commence in approximately two weeks. Ogden asked if debris was noted on the surface. Tetra Tech indicated that some debris is on the surface but not as much as has been located in other areas. They are currently evaluating the approach for the water bodies survey. Because of the depth of some of the ponds, they may have to have an underwater survey. Ideas for this survey will be discussed at next week's meeting. The UXO crews are evaluating the approach to clearing the J-2 Range. EPA asked for the status of the munitions survey plan for J-2 and also the status of Appendix C.

- Ogden provided an update of the Rapid Response Action. Comments were received from last night's IART meeting. Most of the comments received so far are in regards to dust control and cleanup standards. EPA indicated that they would update Ogden on any comments they receive today. Ogden indicated that UXO avoidance will commence the week of April 17th and that another meeting would be required on cleanup standards. The DEP comments were distributed for review. Responses will be prepared for all comments, with a tech meeting to resolve responses, and an MOR to document resolution. The MOR and response to comments will be included in the final plan.

- Ogden provided an update on the Groundwater investigation. Currently setting wells on MW-93 (P-6) and the rig will move to P-10 location. Finished drilling on MW-95 (P-13) and will need to select screens tomorrow when data is received. Selected the three screens for MW-94 (Mortar Target 5) at the water table, 14' to 24' bwt, and 34' to 44' bwt. Continue to develop the newly installed wells. Continue to collect groundwater samples from the third round of remaining Group 2 far field wells and Phase IIa wells. EPA asked for an update on the status of the groundwater sampling of the newly installed Impact Area response wells. Ogden indicated wells have been developed and that the pumps have been ordered. The wells will be sampled as soon as the pumps arrive in the next few weeks. Additional UXO have been located which still need EOD review: two 81mm mortars, one 4.2" mortar, and one 60mm mortar at the Target 9 pad; one 155mm projectile at the P-20 drill pad; one 105mm projectile at the P-19 pad; and two 81mm mortars and five 64mm LAW rockets at the J-2 Range. The Guard indicated that they would like to have a meeting with EPA on the UXO notification process to see if it could be streamlined.

- A 1-page handout of the LTM plan map was distributed for review. It was suggested to add the five new LRWS locations to the map. EPA indicated that they would have their comments on the draft LTM plan today or tomorrow. The comments will indicate specific locations EPA wants to add to the plan. DEP asked if an annual synoptic water level round was scheduled. Ogden indicated that none have been proposed. DEP indicated that they would have their comments in a week or two.

- A 1-page handout of the Tank Alley targets was distributed for review. Ogden indicated that a reconnaissance of this area indicated additional targets and the map would have to be updated. EPA suggested using the 1955 or 1966 orthophoto for the background for the map, to add historic targets indicated in the ERI photos, and to have one symbol for the existing targets and another symbol for the targets identified in the historic photos.

- The Training Range recon status was discussed. Ogden indicated that the ASR does not have enough detail to indicate specific locations where smokes were used and suggested that a reconnaissance of the area be conducted with ASR interviewees. It was agreed to have the first Training Ranges reconnaissance on Wednesday 4/12 after a shortened Tech Meeting starting at 0900.

- The Guard indicated that they were concerned that they were not included in the EOEA meeting several weeks ago.

- The EPA indicated that the responses for Method 8321 and the CHPPM methods are OK, and asked that final 8321 MDLs be included in a subsequent report. Ogden noted that the MDL study for 8321 will be completed, and sampling can begin near the end of April.

- Ogden indicated that they have requested a proposal from Quanterra for the dyes analysis, and contracting is expected to begin shortly. Three of the five dyes should be easy by LCMS. Ogden also indicated that chlorobenzaldehyde will be added to the SVOC analyte list after the MDL study is complete. The Training Areas FSP will be prepared following the recon work to start next week. EPA indicated that the 4/10 deadline to start the Training Areas investigation can be considered met.

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:

- A groundwater profile sample from MW-91 had detections of 1,3,5-trinitrobenzene in one interval, which was not verified by PDA spectra.

- The groundwater profile samples from MW-94 had detections of 2-hexanone (1 interval), acetone (9 intervals), MEK (6 intervals), chloroform (4 intervals), toluene (1 interval), chloromethane (1 interval), 1,3,5-trinitrobenzene (7 intervals), RDX (3 intervals), nitroglycerin (8 intervals), 2,6-dinitrotoluene (1 interval), 2-amino-4,6-dinitrotoluene (2 intervals), PETN (2 intervals), picric acid (1 interval), HMX (1 interval), and 1,3-dinitrobenzene (1 interval). Acetone was also detected in an equipment rinsate blank. The RDX, 2,6-dinitrotoluene (2,6-DNT), HMX and one of the 2-amino-4,6-dinitrotoluene (2A-DNT) detections were verified by PDA spectra.

- The groundwater profile samples from MW-95 had detections of 1,3,5-trinitrobenzene (6 intervals), RDX (4 intervals), nitroglycerin (11 intervals), 2,6-DNT (3 interval), 2A-DNT (2 intervals), PETN (3 intervals), HMX (1 interval), 1,3-dinitrobenzene (2 intervals), 2-nitrotoluene (2 intervals), 3-nitrotoluene (6 intervals), and 4-nitrotoluene (6 intervals). The RDX and HMX were verified by PDA spectra.

3. DELIVERABLES SUBMITTED

Weekly Update for March 27 – March 31	4/7/00
Draft J-2 Range Workplan	4/7/00

Draft FS Workplan 4/7/00

4. SCHEDULED ACTIONS

Scheduled actions for the week of April 10 include the construction of monitoring wells at MW-95 (P-13); continued drilling and well installation at MW-96 (P-10); continued drilling at MW-97 (P-11); and groundwater sampling of round 3 of Group 2 far field wells and round 3 of Phase IIa wells.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

The geophysical survey of Demo 1 continued this week.

TABLE 2
SAMPLING PROGRESS
4/3/00-4/7/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G94DBE	FIELDQC	4/3/2000	FIELDQC	0.00	0.00		
G94DBT	FIELDQC	4/3/2000	FIELDQC	0.00	0.00		
G94DHE	FIELDQC	4/4/2000	FIELDQC	0.00	0.00		
G94DHT	FIELDQC	4/4/2000	FIELDQC	0.00	0.00		
G95DGE	FIELDQC	4/5/2000	FIELDQC	0.00	0.00		
S95DEE	FIELDQC	4/3/2000	FIELDQC	0.00	0.00		
S95DNE	FIELDQC	4/4/2000	FIELDQC	0.00	0.00		
S96DCE	FIELDQC	4/7/2000	FIELDQC	0.00	0.00		
S96DCT	FIELDQC	4/7/2000	FIELDQC	0.00	0.00		
W80M1T	FIELDQC	4/6/2000	FIELDQC	0.00	0.00		
W80SST	FIELDQC	4/5/2000	FIELDQC	0.00	0.00		
W44M1A	MW-44	4/3/2000	GROUNDWATER	182.00	192.00	52.39	62.39
W44M2A	MW-44	4/3/2000	GROUNDWATER	142.00	152.00	12.40	22.40
W44M2D	MW-44	4/3/2000	GROUNDWATER	142.00	152.00	12.40	22.40
W63DDA	MW-63	4/4/2000	GROUNDWATER	375.00	380.00	218.82	223.82
W63M1A	MW-63	4/4/2000	GROUNDWATER	244.00	254.00	87.25	97.25
W63M2A	MW-63	4/4/2000	GROUNDWATER	214.00	224.00	57.44	67.44
W63M3A	MW-63	4/4/2000	GROUNDWATER	182.00	192.00	25.41	35.41
W63SSA	MW-63	4/3/2000	GROUNDWATER	153.00	163.00	-3.59	6.41
W80DDA	MW-80	4/5/2000	GROUNDWATER	158.00	168.00	110.62	120.62
W80M1A	MW-80	4/5/2000	GROUNDWATER	130.00	140.00	82.88	92.88
W80M2A	MW-80	4/5/2000	GROUNDWATER	100.00	110.00	52.79	62.79
W80M3A	MW-80	4/6/2000	GROUNDWATER	70.00	80.00	22.74	32.74
W80SSA	MW-80	4/6/2000	GROUNDWATER	43.00	53.00	-4.40	5.60
W81DDA	MW-81	4/7/2000	GROUNDWATER	184.00	194.00	154.03	164.03
W81M1A	MW-81	4/7/2000	GROUNDWATER	128.00	138.00	97.61	107.61
W81M2A	MW-81	4/6/2000	GROUNDWATER	83.00	93.00	53.45	63.45
W81SSA	MW-81	4/6/2000	GROUNDWATER	43.00	53.00	13.00	23.00
G94DBA	MW-94	4/3/2000	PROFILE	140.00	140.00	14.20	14.20
G94DCA	MW-94	4/3/2000	PROFILE	150.00	150.00	24.20	24.20
G94DDA	MW-94	4/3/2000	PROFILE	160.00	160.00	34.20	34.20
G94DEA	MW-94	4/3/2000	PROFILE	170.00	170.00	44.20	44.20
G94DED	MW-94	4/3/2000	PROFILE	170.00	170.00	44.20	44.20
G94DFA	MW-94	4/3/2000	PROFILE	180.00	180.00	54.20	54.20
G94DGA	MW-94	4/3/2000	PROFILE	190.00	190.00	64.20	64.20
G94DHA	MW-94	4/4/2000	PROFILE	200.00	200.00	74.20	74.20
G94DIA	MW-94	4/4/2000	PROFILE	210.00	210.00	84.20	84.20
G94DJA	MW-94	4/4/2000	PROFILE	220.00	220.00	94.20	94.20
G94DKA	MW-94	4/4/2000	PROFILE	230.00	230.00	104.20	104.20
G95DAA	MW-95	4/4/2000	PROFILE	130.00	130.00	2.77	2.77
G95DBA	MW-95	4/4/2000	PROFILE	140.00	140.00	12.77	12.77
G95DCA	MW-95	4/4/2000	PROFILE	150.00	150.00	22.77	22.77
G95DDA	MW-95	4/4/2000	PROFILE	160.00	160.00	32.77	32.77

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
4/3/00-4/7/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G95DEA	MW-95	4/4/2000	PROFILE	170.00	170.00	42.77	42.77
G95DED	MW-95	4/4/2000	PROFILE	170.00	170.00	42.77	42.77
G95DFA	MW-95	4/5/2000	PROFILE	180.00	180.00	52.77	52.77
G95DGA	MW-95	4/5/2000	PROFILE	190.00	190.00	62.77	62.77
G95DHA	MW-95	4/5/2000	PROFILE	200.00	200.00	72.77	72.77
G95DHD	MW-95	4/5/2000	PROFILE	200.00	200.00	72.77	72.77
G95DIA	MW-95	4/5/2000	PROFILE	210.00	210.00	82.77	82.77
G95DJA	MW-95	4/5/2000	PROFILE	220.00	220.00	92.77	92.77
G95DKA	MW-95	4/5/2000	PROFILE	230.00	230.00	102.77	102.77
S95DEA	MW-95	4/3/2000	SOIL BORING	30.00	32.00		
S95DFA	MW-95	4/3/2000	SOIL BORING	40.00	42.00		
S95DGA	MW-95	4/3/2000	SOIL BORING	50.00	52.00		
S95DGD	MW-95	4/3/2000	SOIL BORING	50.00	52.00		
S95DHA	MW-95	4/3/2000	SOIL BORING	60.00	62.00		
S95DIA	MW-95	4/3/2000	SOIL BORING	70.00	72.00		
S95DJA	MW-95	4/3/2000	SOIL BORING	80.00	82.00		
S95DKA	MW-95	4/3/2000	SOIL BORING	90.00	92.00		
S95DLA	MW-95	4/3/2000	SOIL BORING	100.00	102.00		
S95DMA	MW-95	4/3/2000	SOIL BORING	110.00	112.00		
S95DMD	MW-95	4/3/2000	SOIL BORING	110.00	112.00		
S95DNA	MW-95	4/4/2000	SOIL BORING	120.00	122.00		
S95DOA	MW-95	4/4/2000	SOIL BORING	130.00	132.00		
S96DCA	MW-96	4/7/2000	SOIL BORING	10.00	12.00		
S96DDA	MW-96	4/7/2000	SOIL BORING	20.00	22.00		
S96DEA	MW-96	4/7/2000	SOIL BORING	30.00	32.00		

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
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BWTE = Depth below water table, end depth, measured in feet

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/3/00-4/7/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G94DHE	FIELDQC	04/04/2000	FIELDQC	0.00	0.00			OC21V	ACETONE	
G91DJA	MW-91	03/22/2000	PROFILE	205.00	205.00	79.20	79.20	8330N	1,3,5-TRINITROBENZENE	NO
G94DAA	MW-94	03/31/2000	PROFILE	130.00	132.00	4.20	6.20	8330N	1,3,5-TRINITROBENZENE	NO
G94DAA	MW-94	03/31/2000	PROFILE	130.00	132.00	4.20	6.20	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G94DAA	MW-94	03/31/2000	PROFILE	130.00	132.00	4.20	6.20	8330N	NITROGLYCERIN	NO
G94DBA	MW-94	04/03/2000	PROFILE	140.00	140.00	14.20	14.20	8330N	1,3,5-TRINITROBENZENE	NO
G94DBA	MW-94	04/03/2000	PROFILE	140.00	140.00	14.20	14.20	8330N	2,6-DINITROTOLUENE	YES
G94DBA	MW-94	04/03/2000	PROFILE	140.00	140.00	14.20	14.20	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
G94DBA	MW-94	04/03/2000	PROFILE	140.00	140.00	14.20	14.20	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G94DBA	MW-94	04/03/2000	PROFILE	140.00	140.00	14.20	14.20	8330N	NITROGLYCERIN	NO
G94DBA	MW-94	04/03/2000	PROFILE	140.00	140.00	14.20	14.20	8330N	PENTAERYTHRITOL TETRANITR	NO
G94DBA	MW-94	04/03/2000	PROFILE	140.00	140.00	14.20	14.20	8330N	PICRIC ACID	NO
G94DBA	MW-94	04/03/2000	PROFILE	140.00	140.00	14.20	14.20	OC21V	2-HEXANONE	
G94DBA	MW-94	04/03/2000	PROFILE	140.00	140.00	14.20	14.20	OC21V	ACETONE	
G94DBA	MW-94	04/03/2000	PROFILE	140.00	140.00	14.20	14.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G94DCA	MW-94	04/03/2000	PROFILE	150.00	150.00	24.20	24.20	8330N	1,3,5-TRINITROBENZENE	NO
G94DCA	MW-94	04/03/2000	PROFILE	150.00	150.00	24.20	24.20	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G94DCA	MW-94	04/03/2000	PROFILE	150.00	150.00	24.20	24.20	8330N	NITROGLYCERIN	NO
G94DCA	MW-94	04/03/2000	PROFILE	150.00	150.00	24.20	24.20	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
G94DCA	MW-94	04/03/2000	PROFILE	150.00	150.00	24.20	24.20	OC21V	ACETONE	
G94DCA	MW-94	04/03/2000	PROFILE	150.00	150.00	24.20	24.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G94DDA	MW-94	04/03/2000	PROFILE	160.00	160.00	34.20	34.20	8330N	1,3,5-TRINITROBENZENE	NO
G94DDA	MW-94	04/03/2000	PROFILE	160.00	160.00	34.20	34.20	8330N	NITROGLYCERIN	NO
G94DDA	MW-94	04/03/2000	PROFILE	160.00	160.00	34.20	34.20	8330N	PENTAERYTHRITOL TETRANITR	NO
G94DDA	MW-94	04/03/2000	PROFILE	160.00	160.00	34.20	34.20	OC21V	ACETONE	
G94DDA	MW-94	04/03/2000	PROFILE	160.00	160.00	34.20	34.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G94DEA	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	8330N	1,3,5-TRINITROBENZENE	NO
G94DEA	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G94DEA	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	8330N	NITROGLYCERIN	NO
G94DEA	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	OC21V	ACETONE	
G94DEA	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	OC21V	CHLOROFORM	
G94DEA	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	OC21V	TOLUENE	
G94DED	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	8330N	1,3,5-TRINITROBENZENE	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 4/3/00-4/7/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G94DED	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	8330N	NITROGLYCERIN	NO
G94DED	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	OC21V	ACETONE	
G94DED	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	OC21V	CHLOROFORM	
G94DED	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G94DED	MW-94	04/03/2000	PROFILE	170.00	170.00	44.20	44.20	OC21V	TOLUENE	
G94DFA	MW-94	04/03/2000	PROFILE	180.00	180.00	54.20	54.20	8330N	NITROGLYCERIN	NO
G94DFA	MW-94	04/03/2000	PROFILE	180.00	180.00	54.20	54.20	OC21V	ACETONE	
G94DFA	MW-94	04/03/2000	PROFILE	180.00	180.00	54.20	54.20	OC21V	CHLOROFORM	
G94DGA	MW-94	04/03/2000	PROFILE	190.00	190.00	64.20	64.20	OC21V	ACETONE	
G94DGA	MW-94	04/03/2000	PROFILE	190.00	190.00	64.20	64.20	OC21V	CHLOROFORM	
G94DGA	MW-94	04/03/2000	PROFILE	190.00	190.00	64.20	64.20	OC21V	TOLUENE	
G94DHA	MW-94	04/04/2000	PROFILE	200.00	200.00	74.20	74.20	8330N	1,3,5-TRINITROBENZENE	NO
G94DHA	MW-94	04/04/2000	PROFILE	200.00	200.00	74.20	74.20	OC21V	ACETONE	
G94DHA	MW-94	04/04/2000	PROFILE	200.00	200.00	74.20	74.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G94DJA	MW-94	04/04/2000	PROFILE	220.00	220.00	94.20	94.20	8330N	1,3,5-TRINITROBENZENE	NO
G94DJA	MW-94	04/04/2000	PROFILE	220.00	220.00	94.20	94.20	8330N	1,3-DINITROBENZENE	NO
G94DJA	MW-94	04/04/2000	PROFILE	220.00	220.00	94.20	94.20	8330N	NITROGLYCERIN	NO
G94DJA	MW-94	04/04/2000	PROFILE	220.00	220.00	94.20	94.20	OC21V	ACETONE	
G94DJA	MW-94	04/04/2000	PROFILE	220.00	220.00	94.20	94.20	OC21V	CHLOROMETHANE	
G94DJA	MW-94	04/04/2000	PROFILE	220.00	220.00	94.20	94.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G94DKA	MW-94	04/04/2000	PROFILE	230.00	230.00	104.20	104.20	8330N	NITROGLYCERIN	NO
G94DKA	MW-94	04/04/2000	PROFILE	230.00	230.00	104.20	104.20	OC21V	ACETONE	
G94DKA	MW-94	04/04/2000	PROFILE	230.00	230.00	104.20	104.20	OC21V	CHLOROFORM	
G95DAA	MW-95	04/04/2000	PROFILE	130.00	130.00	2.77	2.77	8330N	1,3,5-TRINITROBENZENE	NO
G95DAA	MW-95	04/04/2000	PROFILE	130.00	130.00	2.77	2.77	8330N	2,4-DINITROTOLUENE	NO
G95DAA	MW-95	04/04/2000	PROFILE	130.00	130.00	2.77	2.77	8330N	2,6-DINITROTOLUENE	NO
G95DAA	MW-95	04/04/2000	PROFILE	130.00	130.00	2.77	2.77	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G95DAA	MW-95	04/04/2000	PROFILE	130.00	130.00	2.77	2.77	8330N	2-NITROTOLUENE	NO
G95DAA	MW-95	04/04/2000	PROFILE	130.00	130.00	2.77	2.77	8330N	3-NITROTOLUENE	NO
G95DAA	MW-95	04/04/2000	PROFILE	130.00	130.00	2.77	2.77	8330N	4-NITROTOLUENE	NO
G95DAA	MW-95	04/04/2000	PROFILE	130.00	130.00	2.77	2.77	8330N	NITROGLYCERIN	NO
G95DAA	MW-95	04/04/2000	PROFILE	130.00	130.00	2.77	2.77	8330N	PENTAERYTHRITOL TETRANITR	NO
G95DBA	MW-95	04/04/2000	PROFILE	140.00	140.00	12.77	12.77	8330N	1,3,5-TRINITROBENZENE	NO

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
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PDA/NO = Photo Diode Array, Detect Not Confirmed

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/3/00-4/7/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G95DBA	MW-95	04/04/2000	PROFILE	140.00	140.00	12.77	12.77	8330N	1,3-DINITROBENZENE	NO
G95DBA	MW-95	04/04/2000	PROFILE	140.00	140.00	12.77	12.77	8330N	2,4-DINITROTOLUENE	NO
G95DBA	MW-95	04/04/2000	PROFILE	140.00	140.00	12.77	12.77	8330N	2,6-DINITROTOLUENE	NO
G95DBA	MW-95	04/04/2000	PROFILE	140.00	140.00	12.77	12.77	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G95DBA	MW-95	04/04/2000	PROFILE	140.00	140.00	12.77	12.77	8330N	2-NITROTOLUENE	NO
G95DBA	MW-95	04/04/2000	PROFILE	140.00	140.00	12.77	12.77	8330N	3-NITROTOLUENE	NO
G95DBA	MW-95	04/04/2000	PROFILE	140.00	140.00	12.77	12.77	8330N	4-NITROTOLUENE	NO
G95DBA	MW-95	04/04/2000	PROFILE	140.00	140.00	12.77	12.77	8330N	NITROGLYCERIN	NO
G95DCA	MW-95	04/04/2000	PROFILE	150.00	150.00	22.77	22.77	8330N	1,3,5-TRINITROBENZENE	NO
G95DCA	MW-95	04/04/2000	PROFILE	150.00	150.00	22.77	22.77	8330N	1,3-DINITROBENZENE	NO
G95DCA	MW-95	04/04/2000	PROFILE	150.00	150.00	22.77	22.77	8330N	2,4-DINITROTOLUENE	NO
G95DCA	MW-95	04/04/2000	PROFILE	150.00	150.00	22.77	22.77	8330N	3-NITROTOLUENE	NO
G95DCA	MW-95	04/04/2000	PROFILE	150.00	150.00	22.77	22.77	8330N	4-NITROTOLUENE	NO
G95DCA	MW-95	04/04/2000	PROFILE	150.00	150.00	22.77	22.77	8330N	NITROGLYCERIN	NO
G95DDA	MW-95	04/04/2000	PROFILE	160.00	160.00	32.77	32.77	8330N	1,3,5-TRINITROBENZENE	NO
G95DDA	MW-95	04/04/2000	PROFILE	160.00	160.00	32.77	32.77	8330N	3-NITROTOLUENE	NO
G95DDA	MW-95	04/04/2000	PROFILE	160.00	160.00	32.77	32.77	8330N	4-NITROTOLUENE	NO
G95DDA	MW-95	04/04/2000	PROFILE	160.00	160.00	32.77	32.77	8330N	NITROGLYCERIN	NO
G95DEA	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	1,3,5-TRINITROBENZENE	NO
G95DEA	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	3-NITROTOLUENE	NO
G95DEA	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	4-NITROTOLUENE	NO
G95DEA	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G95DEA	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	NITROGLYCERIN	NO
G95DEA	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	PENTAERYTHRITOL TETRANITR	NO
G95DED	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	1,3,5-TRINITROBENZENE	YES
G95DED	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	3-NITROTOLUENE	NO
G95DED	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	4-NITROTOLUENE	NO
G95DED	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G95DED	MW-95	04/04/2000	PROFILE	170.00	170.00	42.77	42.77	8330N	NITROGLYCERIN	NO
G95DFA	MW-95	04/05/2000	PROFILE	180.00	180.00	52.77	52.77	8330N	NITROGLYCERIN	NO
G95DFA	MW-95	04/05/2000	PROFILE	180.00	180.00	52.77	52.77	8330N	PENTAERYTHRITOL TETRANITR	NO
G95DGA	MW-95	04/05/2000	PROFILE	190.00	190.00	62.77	62.77	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G95DGA	MW-95	04/05/2000	PROFILE	190.00	190.00	62.77	62.77	8330N	NITROGLYCERIN	NO

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/3/00-4/7/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G95DGA	MW-95	04/05/2000	PROFILE	190.00	190.00	62.77	62.77	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
G95DHA	MW-95	04/05/2000	PROFILE	200.00	200.00	72.77	72.77	8330N	1,3,5-TRINITROBENZENE	NO
G95DHA	MW-95	04/05/2000	PROFILE	200.00	200.00	72.77	72.77	8330N	3-NITROTOLUENE	NO
G95DHA	MW-95	04/05/2000	PROFILE	200.00	200.00	72.77	72.77	8330N	4-NITROTOLUENE	NO
G95DHA	MW-95	04/05/2000	PROFILE	200.00	200.00	72.77	72.77	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G95DHA	MW-95	04/05/2000	PROFILE	200.00	200.00	72.77	72.77	8330N	NITROGLYCERIN	NO
G95DHD	MW-95	04/05/2000	PROFILE	200.00	200.00	72.77	72.77	8330N	1,3,5-TRINITROBENZENE	NO
G95DHD	MW-95	04/05/2000	PROFILE	200.00	200.00	72.77	72.77	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G95DHD	MW-95	04/05/2000	PROFILE	200.00	200.00	72.77	72.77	8330N	NITROGLYCERIN	NO
G95DIA	MW-95	04/05/2000	PROFILE	210.00	210.00	82.77	82.77	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G95DIA	MW-95	04/05/2000	PROFILE	210.00	210.00	82.77	82.77	8330N	NITROGLYCERIN	NO
G95DJA	MW-95	04/05/2000	PROFILE	220.00	220.00	92.77	92.77	8330N	NITROGLYCERIN	NO
G95DKA	MW-95	04/05/2000	PROFILE	230.00	230.00	102.77	102.77	8330N	NITROGLYCERIN	NO

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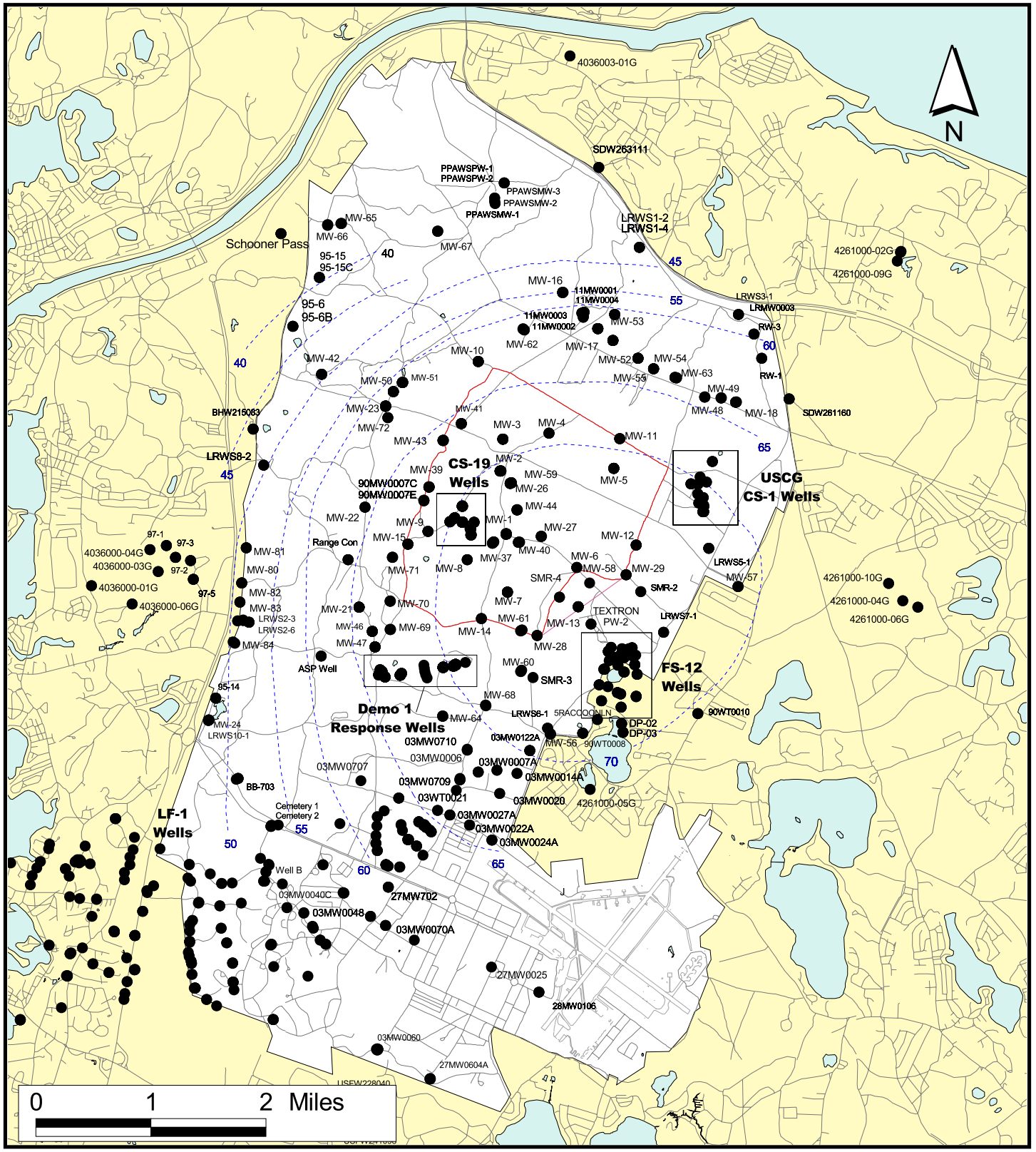


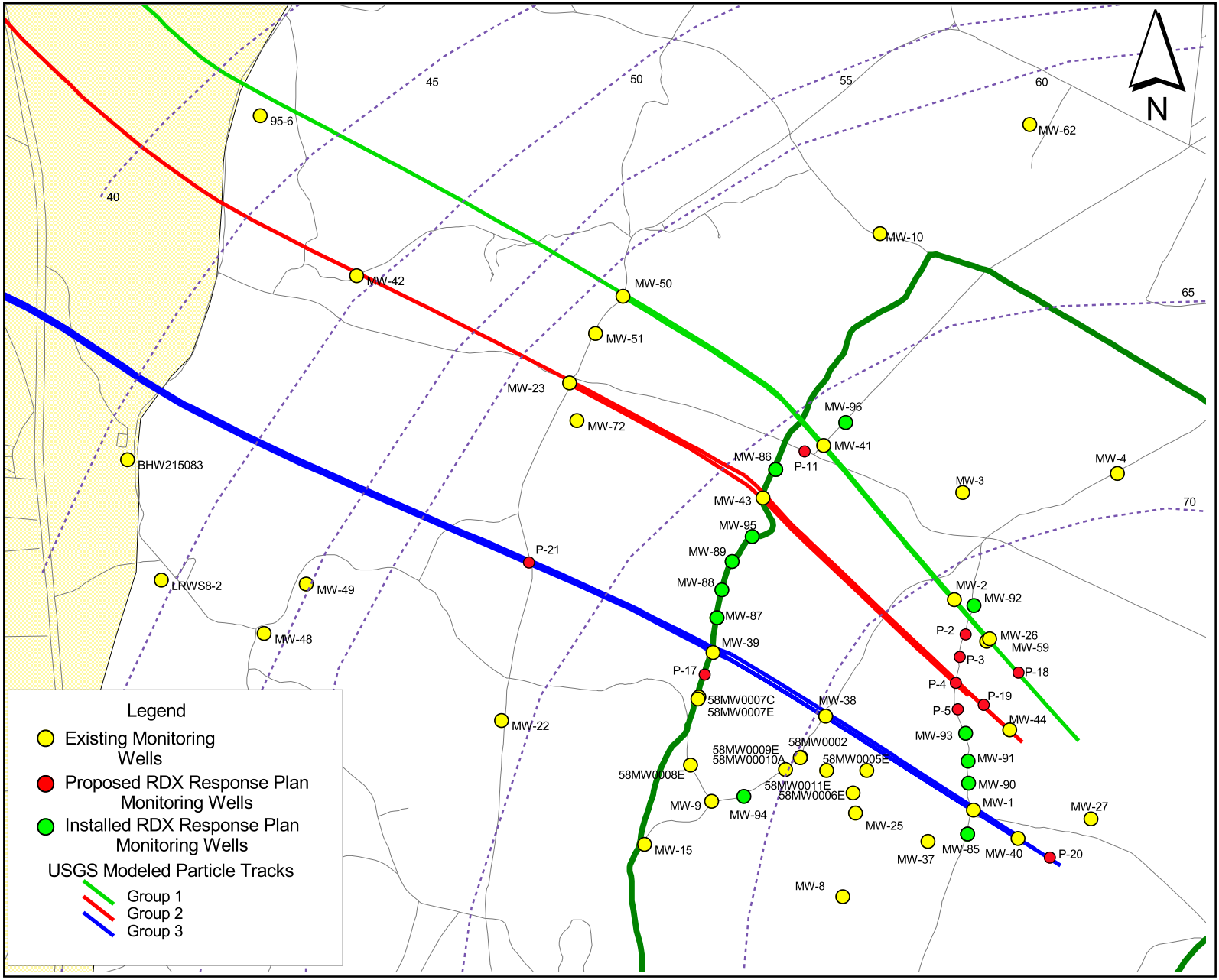
Sources & Notes

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