

**WEEKLY PROGRESS UPDATE
FOR APRIL 9 – APRIL 13, 2001**

**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 April 9 to April 13, 2001.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of April 13 is summarized in Table 1.

Table 1. Drilling progress as of April 13, 2001				
Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-162	Demo 1 well (D1P-3)	210	135	85.5-95.5 125.5-135.5 190.5-200.5
MW-164	J-1 Range well (J1P-5)	321	207	
MW-165	Demo 1 well (D1P-4)	150	70	
Bgs = below ground surface Bwt = below water table				

Completed well installation of MW-162 (D1P-3). Completed drilling of MW-164 (J1P-5). Commenced drilling MW-165 (D1P-4). Continued development of newly installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater sampling continued for the first round of newly installed wells. Groundwater profile samples were collected for MW-164 and MW-165. Water samples were collected from the RRA containment pad. Soil samples were collected at Former C and D Ranges, former E Range, Cleared Areas 1 and 6, the Grenade Courts, J-1 Range bucket excavation area, from drill cuttings of recently installed wells, and at a supplemental BIP crater on the J-1 Range. Pre- and post-detonation soil samples were collected in the HUTA. As part of the HUTA investigation, soil and wipe samples were collected from UXORM in Test Pit 3 and from debris in Test Pit 6.

There was no technical meeting held the week of April 9 – April 13.

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 profile samples from MW-164 had detections of acetone (9 intervals), toluene (1 interval), chloroform (2 intervals), chloroethane (1 interval), chloromethane (1 interval), MEK (4 intervals), PETN (1 interval), 2A-DNT (1 interval), nitrobenzene (1 interval), nitroglycerin (7 intervals), picric acid (1 interval), and RDX (5 intervals). The RDX detections were verified by PDA spectra.

3. DELIVERABLES SUBMITTED

Weekly Progress Update March 26 - March 30
Monthly Progress Report for March 2001

4/9/01
4/9/01

4. SCHEDULED ACTIONS

Scheduled actions for the week of April 16 include well installation of MW-164 (J1P-5) and MW-165 (D1P-4); commence drilling J1P-7; continue development of newly installed wells; and continue sampling of Phase IIb soil grids.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Responses to comments on the Soil COC Report are being prepared. The Draft Soil Report is also being prepared. Drilling of additional downgradient wells at Demo 1 is ongoing. Analysis of second round groundwater samples from newly installed wells is ongoing.

TABLE 2
 SAMPLING PROGRESS
 4/7/2001-4/13/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
0.A.1.00707.1.0	A.1.00707.R	04/12/2001	CRATER GRID	0.50	0.75		
0.A.1.00707.10.0	A.1.00707.R	04/13/2001	CRATER GRID	0.50	0.75		
0.A.1.00707.10.D	A.1.00707.R	04/13/2001	CRATER GRID	0.50	0.75		
0.A.1.00707.2.0	A.1.00707.R	04/12/2001	CRATER GRID	0.50	0.75		
0.A.1.00707.3.0	A.1.00707.R	04/12/2001	CRATER GRID	0.50	0.75		
0.A.1.00707.4.0	A.1.00707.R	04/12/2001	CRATER GRID	0.50	0.75		
0.A.1.00707.5.0	A.1.00707.R	04/12/2001	CRATER GRID	0.50	0.75		
0.A.1.00707.6.0	A.1.00707.R	04/13/2001	CRATER GRID	0.50	0.75		
0.A.1.00707.7.0	A.1.00707.R	04/13/2001	CRATER GRID	0.50	0.75		
0.A.1.00707.8.0	A.1.00707.R	04/13/2001	CRATER GRID	0.50	0.75		
0.A.1.00707.9.0	A.1.00707.R	04/13/2001	CRATER GRID	0.50	0.75		
0.A.1.00708.1.0	A.1.00708.R	04/12/2001	CRATER GRID	0.00	0.25		
0.A.1.00708.1.D	A.1.00708.R	04/12/2001	CRATER GRID	0.00	0.25		
0.A.1.00708.10.0	A.1.00708.R	04/13/2001	CRATER GRID	0.00	0.25		
0.A.1.00708.2.0	A.1.00708.R	04/12/2001	CRATER GRID	0.00	0.25		
0.A.1.00708.3.0	A.1.00708.R	04/12/2001	CRATER GRID	0.00	0.25		
0.A.1.00708.4.0	A.1.00708.R	04/12/2001	CRATER GRID	0.00	0.25		
0.A.1.00708.5.0	A.1.00708.R	04/12/2001	CRATER GRID	0.00	0.25		
0.A.1.00708.6.0	A.1.00708.R	04/13/2001	CRATER GRID	0.00	0.25		
0.A.1.00708.7.0	A.1.00708.R	04/13/2001	CRATER GRID	0.00	0.25		
0.A.1.00708.8.0	A.1.00708.R	04/13/2001	CRATER GRID	0.00	0.25		
0.A.1.00708.9.0	A.1.00708.R	04/13/2001	CRATER GRID	0.00	0.25		
4.A.1.00704.1.0	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00704.10.0	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00704.10.D	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00704.2.0	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00704.3.0	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00704.4.0	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00704.5.0	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00704.6.0	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00704.7.0	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00704.8.0	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00704.9.0	A.1.00704.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00705.1.0	A.1.00705.R	04/11/2001	CRATER GRID	2.00	2.25		
4.A.1.00705.10.0	A.1.00705.R	04/11/2001	CRATER GRID	2.25	2.50		
4.A.1.00705.2.0	A.1.00705.R	04/11/2001	CRATER GRID	2.25	2.50		
4.A.1.00705.3.0	A.1.00705.R	04/11/2001	CRATER GRID	2.25	2.50		
4.A.1.00705.4.0	A.1.00705.R	04/11/2001	CRATER GRID	2.25	2.50		
4.A.1.00705.5.0	A.1.00705.R	04/11/2001	CRATER GRID	2.25	2.50		
4.A.1.00705.5.D	A.1.00705.R	04/11/2001	CRATER GRID	2.25	2.50		
4.A.1.00705.6.0	A.1.00705.R	04/11/2001	CRATER GRID	2.25	2.50		
4.A.1.00705.7.0	A.1.00705.R	04/11/2001	CRATER GRID	2.25	2.50		
4.A.1.00705.8.0	A.1.00705.R	04/11/2001	CRATER GRID	2.25	2.50		

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
 4/7/2001-4/13/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
4.A.1.00705.9.0	A.1.00705.R	04/11/2001	CRATER GRID	2.25	2.50		
6.A.1.00706.1.0	A.1.00706.R	04/12/2001	CRATER GRID	2.50	2.75		
6.A.1.00706.10.0	A.1.00706.R	04/13/2001	CRATER GRID	2.50	2.75		
6.A.1.00706.10.D	A.1.00706.R	04/13/2001	CRATER GRID	2.50	2.75		
6.A.1.00706.2.0	A.1.00706.R	04/12/2001	CRATER GRID	2.50	2.75		
6.A.1.00706.3.0	A.1.00706.R	04/12/2001	CRATER GRID	2.50	2.75		
6.A.1.00706.4.0	A.1.00706.R	04/12/2001	CRATER GRID	2.50	2.75		
6.A.1.00706.5.0	A.1.00706.R	04/12/2001	CRATER GRID	2.50	2.75		
6.A.1.00706.6.0	A.1.00706.R	04/13/2001	CRATER GRID	2.50	2.75		
6.A.1.00706.7.0	A.1.00706.R	04/13/2001	CRATER GRID	2.50	2.75		
6.A.1.00706.8.0	A.1.00706.R	04/13/2001	CRATER GRID	2.50	2.75		
6.A.1.00706.9.0	A.1.00706.R	04/13/2001	CRATER GRID	2.50	2.75		
J1.2.00034.RSS1	J1.2.00034	04/09/2001	CRATER GRID	0.00	0.25		
J1.2.00034.RSS2	J1.2.00034	04/09/2001	CRATER GRID	0.00	0.25		
J1.2.00034.RSS3	J1.2.00034	04/09/2001	CRATER GRID	0.00	0.25		
J1.2.00034.RSS4	J1.2.00034	04/09/2001	CRATER GRID	0.00	0.25		
J1.2.00034.RSS5	J1.2.00034	04/09/2001	CRATER GRID	0.00	0.25		
J1.2.00034.RSS6	J1.2.00034	04/09/2001	CRATER GRID	0.00	0.25		
J1.2.00034.RSS7	J1.2.00034	04/09/2001	CRATER GRID	0.00	0.25		
J1.2.00034.RSS8	J1.2.00034	04/09/2001	CRATER GRID	0.00	0.25		
0.G.0.00071.0.T	Trip Blank 71	04/11/2001	FIELDQC				
0.G.0.00072.0.T	Trip Blank 72	04/12/2001	FIELDQC				
0.G.0.00073.0.T	Trip Blank 73	04/13/2001	FIELDQC				
G164DME	FIELDQC	04/09/2001	FIELDQC	0.00	0.00		
G164DTE	FIELDQC	04/10/2001	FIELDQC	0.00	0.00		
G164DTT	FIELDQC	04/10/2001	FIELDQC	0.00	0.00		
G165DAE	FIELDQC	04/12/2001	FIELDQC	0.00	0.00		
G165DHE	FIELDQC	04/13/2001	FIELDQC	0.00	0.00		
HC05FA1AAE	FIELDQC	04/13/2001	FIELDQC	0.00	0.00		
HC05FA1AAT	FIELDQC	04/13/2001	FIELDQC	0.00	0.00		
HC61L1AAE	FIELDQC	04/10/2001	FIELDQC	0.00	0.00		
HD135A1AAE	FIELDQC	04/09/2001	FIELDQC	0.00	0.00		
HD138A1AAE	FIELDQC	04/11/2001	FIELDQC	0.00	0.00		
HD138A1AAT	FIELDQC	04/12/2001	FIELDQC	0.00	0.00		
HD138B1AAE	FIELDQC	04/13/2001	FIELDQC	0.00	0.00		
HD139A1AAE	FIELDQC	04/12/2001	FIELDQC	0.00	0.00		
J1.2.00034.RSS1E	FIELDQC	04/09/2001	FIELDQC	0.00	0.00		
W153M2F	FIELDQC	04/09/2001	FIELDQC	0.00	0.00		
W153M2T	FIELDQC	04/09/2001	FIELDQC	0.00	0.00		
3.C.1.00663.2.0	C.1.00663.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00663.3.0	C.1.00663.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00664.2.0	C.1.00664.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00664.3.0	C.1.00664.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00664.3.D	C.1.00664.O	04/09/2001	GAUZE WIPE	0.50	0.75		

Profiling methods include: Volatiles and Explosives

Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry

Other Sample Types methods are variable

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TABLE 2
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OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
3.C.1.00665.2.0	C.1.00665.O	04/09/2001	GAUZE WIPE	0.75	1.00		
3.C.1.00666.2.0	C.1.00666.O	04/09/2001	GAUZE WIPE	0.25	0.50		
3.C.1.00666.3.0	C.1.00666.O	04/09/2001	GAUZE WIPE	0.25	0.50		
3.C.1.00667.2.0	C.1.00667.O	04/09/2001	GAUZE WIPE	2.00	2.25		
3.C.1.00667.3.0	C.1.00667.O	04/09/2001	GAUZE WIPE	2.00	2.25		
3.C.1.00668.2.0	C.1.00668.O	04/09/2001	GAUZE WIPE	2.00	2.25		
3.C.1.00668.3.0	C.1.00668.O	04/09/2001	GAUZE WIPE	2.00	2.25		
3.C.1.00669.2.0	C.1.00669.O	04/09/2001	GAUZE WIPE	0.75	1.00		
3.C.1.00669.3.0	C.1.00669.O	04/09/2001	GAUZE WIPE	0.75	1.00		
3.C.1.00670.2.0	C.1.00670.O	04/09/2001	GAUZE WIPE	1.50	1.75		
3.C.1.00670.3.0	C.1.00670.O	04/09/2001	GAUZE WIPE	1.50	1.75		
3.C.1.00672.2.0	C.1.00672.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00672.3.0	C.1.00672.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00673.2.0	C.1.00673.O	04/09/2001	GAUZE WIPE	0.00	0.25		
3.C.1.00673.3.0	C.1.00673.O	04/09/2001	GAUZE WIPE	0.00	0.25		
3.C.1.00674.2.0	C.1.00674.O	04/09/2001	GAUZE WIPE	1.00	1.25		
3.C.1.00674.3.0	C.1.00674.O	04/09/2001	GAUZE WIPE	1.00	1.25		
3.C.1.00674.3.D	C.1.00674.O	04/09/2001	GAUZE WIPE	1.00	1.25		
3.C.1.00675.2.0	C.1.00675.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00675.3.0	C.1.00675.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00676.2.0	C.1.00676.O	04/09/2001	GAUZE WIPE	1.00	1.25		
3.C.1.00676.3.0	C.1.00676.O	04/09/2001	GAUZE WIPE	1.00	1.25		
3.C.1.00677.2.0	C.1.00677.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00677.3.0	C.1.00677.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00677.3.D	C.1.00677.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00678.2.0	C.1.00678.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00678.3.0	C.1.00678.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00679.2.0	C.1.00679.O	04/09/2001	GAUZE WIPE	0.25	0.50		
3.C.1.00679.3.0	C.1.00679.O	04/09/2001	GAUZE WIPE	0.25	0.50		
3.C.1.00681.2.0	C.1.00681.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00681.3.0	C.1.00681.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00682.2.0	C.1.00682.O	04/09/2001	GAUZE WIPE	1.00	1.25		
3.C.1.00682.3.0	C.1.00682.O	04/09/2001	GAUZE WIPE	1.00	1.25		
3.C.1.00683.2.0	C.1.00683.O	04/09/2001	GAUZE WIPE	0.75	1.00		
3.C.1.00683.3.0	C.1.00683.O	04/09/2001	GAUZE WIPE	0.75	1.00		
3.C.1.00684.2.0	C.1.00684.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00684.2.D	C.1.00684.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00684.3.0	C.1.00684.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00685.2.0	C.1.00685.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00685.3.0	C.1.00685.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00686.2.0	C.1.00686.O	04/09/2001	GAUZE WIPE	0.25	0.50		
3.C.1.00686.3.0	C.1.00686.O	04/09/2001	GAUZE WIPE	0.25	0.50		
3.C.1.00687.2.0	C.1.00687.O	04/09/2001	GAUZE WIPE	0.75	1.00		
3.C.1.00687.3.0	C.1.00687.O	04/09/2001	GAUZE WIPE	0.75	1.00		

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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TABLE 2
 SAMPLING PROGRESS
 4/7/2001-4/13/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
3.C.1.00687.3.D	C.1.00687.O	04/09/2001	GAUZE WIPE	0.75	1.00		
3.C.1.00688.2.0	C.1.00688.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00688.3.0	C.1.00688.O	04/09/2001	GAUZE WIPE	0.50	0.75		
3.C.1.00689.2.0	C.1.00689.O	04/09/2001	GAUZE WIPE	0.25	0.50		
3.C.1.00689.3.0	C.1.00689.O	04/09/2001	GAUZE WIPE	0.25	0.50		
3.D.1.00671.2.0	D.1.00671.O	04/09/2001	GAUZE WIPE	1.00	1.25		
3.D.1.00671.3.0	D.1.00671.O	04/09/2001	GAUZE WIPE	1.00	1.25		
3.D.1.00671.3.D	D.1.00671.O	04/09/2001	GAUZE WIPE	1.00	1.25		
3.D.1.00680.2.0	D.1.00680.O	04/09/2001	GAUZE WIPE	0.00	0.25		
3.D.1.00680.3.0	D.1.00680.O	04/09/2001	GAUZE WIPE	0.00	0.25		
6.D.1.00691.2.0	D.1.00691.O	04/09/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00691.3.0	D.1.00691.O	04/09/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00692.2.0	D.1.00692.O	04/09/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00692.3.0	D.1.00692.O	04/09/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00710.2.0	D.1.00710.O	04/13/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00710.3.0	D.1.00710.O	04/13/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00710.3.D	D.1.00710.O	04/13/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00711.2.0	D.1.00711.O	04/13/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00711.3.0	D.1.00711.O	04/13/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00716.2.0	D.1.00716.O	04/13/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00716.3.0	D.1.00716.O	04/13/2001	GAUZE WIPE	0.25	0.50		
6.D.1.00719.2.0	D.1.00719.O	04/13/2001	GAUZE WIPE	0.75	1.00		
6.D.1.00719.3.0	D.1.00719.O	04/13/2001	GAUZE WIPE	0.75	1.00		
6.D.1.00722.2.0	D.1.00722.O	04/13/2001	GAUZE WIPE	0.75	1.00		
6.D.1.00722.2.D	D.1.00722.O	04/13/2001	GAUZE WIPE	0.75	1.00		
6.D.1.00722.3.0	D.1.00722.O	04/13/2001	GAUZE WIPE	0.75	1.00		
6.D.1.00723.2.0	D.1.00723.O	04/13/2001	GAUZE WIPE	0.50	0.75		
6.D.1.00723.3.0	D.1.00723.O	04/13/2001	GAUZE WIPE	0.50	0.75		
W152M2A	MW-152	04/12/2001	GROUNDWATER	154.00	164.00	44.60	54.60
PWPPC09AP1A	RRA CONTAINMENT	04/09/2001	IDW				
PWPPC09AP1D	RRA CONTAINMENT	04/09/2001	IDW				
SC15201	SOIL CUTTINGS	04/10/2001	IDW	0.00	0.25		
SC15202	SOIL CUTTINGS	04/10/2001	IDW	0.00	0.25		
SC15401	SOIL CUTTINGS	04/10/2001	IDW	0.00	0.25		
SC15402	SOIL CUTTINGS	04/10/2001	IDW	0.00	0.25		
SC15801	SOIL CUTTINGS	04/10/2001	IDW	0.00	0.25		
SC15802	SOIL CUTTINGS	04/10/2001	IDW	0.00	0.25		
SC15901	SOIL CUTTINGS	04/10/2001	IDW	0.00	0.25		
SC15902	SOIL CUTTINGS	04/10/2001	IDW	0.00	0.25		
G164DMA	MW-164	04/09/2001	PROFILE	240.00	240.00	127.10	127.10
G164DNA	MW-164	04/09/2001	PROFILE	250.00	250.00	137.10	137.10
G164DOA	MW-164	04/09/2001	PROFILE	260.00	260.00	147.10	147.10
G164DPA	MW-164	04/09/2001	PROFILE	270.00	270.00	157.10	157.10
G164DQA	MW-164	04/09/2001	PROFILE	280.00	280.00	167.10	167.10

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
 4/7/2001-4/13/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G164DRA	MW-164	04/09/2001	PROFILE	290.00	290.00	177.10	177.10
G164DSA	MW-164	04/09/2001	PROFILE	300.00	300.00	187.10	187.10
G164DTA	MW-164	04/10/2001	PROFILE	310.00	310.00	197.10	197.10
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10
G165DAA	MW-165	04/12/2001	PROFILE	90.00	90.00	10.50	10.50
G165DBA	MW-165	04/12/2001	PROFILE	100.00	100.00	20.50	20.50
G165DCA	MW-165	04/12/2001	PROFILE	110.00	110.00	30.50	30.50
G165DCD	MW-165	04/12/2001	PROFILE	110.00	110.00	30.50	30.50
G165DDA	MW-165	04/12/2001	PROFILE	120.00	120.00	40.50	40.50
G165DEA	MW-165	04/12/2001	PROFILE	130.00	130.00	50.50	50.50
G165DFA	MW-165	04/12/2001	PROFILE	140.00	140.00	60.50	60.50
G165DFD	MW-165	04/12/2001	PROFILE	140.00	140.00	60.50	60.50
G165DGA	MW-165	04/12/2001	PROFILE	150.00	150.00	70.50	70.50
G165DHA	MW-165	04/13/2001	PROFILE	160.00	160.00	80.50	80.50
G165DIA	MW-165	04/13/2001	PROFILE	170.00	170.00	90.50	90.50
G165DJA	MW-165	04/13/2001	PROFILE	180.00	180.00	100.50	100.50
G165DKA	MW-165	04/13/2001	PROFILE	190.00	190.00	110.50	110.50
G165DLA	MW-165	04/13/2001	PROFILE	200.00	200.00	120.50	120.50
G165DMA	MW-165	04/13/2001	PROFILE	210.00	210.00	130.50	130.50
G165DNA	MW-165	04/13/2001	PROFILE	220.00	220.00	140.50	140.50
G165DOA	MW-165	04/13/2001	PROFILE	230.00	230.00	150.50	150.50
G165DPA	MW-165	04/13/2001	PROFILE	240.00	240.00	160.50	160.50
G165DQA	MW-165	04/13/2001	PROFILE	250.00	250.00	170.50	170.50
3.C.1.00663.1.0	C.1.00663.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00664.1.0	C.1.00664.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00665.1.0	C.1.00665.O	04/09/2001	SOIL BRUSHING	0.75	1.00		
3.C.1.00666.1.0	C.1.00666.O	04/09/2001	SOIL BRUSHING	0.25	0.50		
3.C.1.00667.1.0	C.1.00667.O	04/09/2001	SOIL BRUSHING	2.00	2.25		
3.C.1.00668.1.0	C.1.00668.O	04/09/2001	SOIL BRUSHING	2.00	2.25		
3.C.1.00668.1.D	C.1.00668.O	04/09/2001	SOIL BRUSHING	2.00	2.25		
3.C.1.00669.1.0	C.1.00669.O	04/09/2001	SOIL BRUSHING	0.75	1.00		
3.C.1.00670.1.0	C.1.00670.O	04/09/2001	SOIL BRUSHING	1.50	1.75		
3.C.1.00672.1.0	C.1.00672.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00673.1.0	C.1.00673.O	04/09/2001	SOIL BRUSHING	0.00	0.25		
3.C.1.00674.1.0	C.1.00674.O	04/09/2001	SOIL BRUSHING	1.00	1.25		
3.C.1.00675.1.0	C.1.00675.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00676.1.0	C.1.00676.O	04/09/2001	SOIL BRUSHING	1.00	1.25		
3.C.1.00677.1.0	C.1.00677.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00678.1.0	C.1.00678.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00679.1.0	C.1.00679.O	04/09/2001	SOIL BRUSHING	0.25	0.50		
3.C.1.00681.1.0	C.1.00681.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00681.1.D	C.1.00681.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00682.1.0	C.1.00682.O	04/09/2001	SOIL BRUSHING	1.00	1.25		
3.C.1.00683.1.0	C.1.00683.O	04/09/2001	SOIL BRUSHING	0.75	1.00		

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
 4/7/2001-4/13/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
3.C.1.00684.1.0	C.1.00684.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00685.1.0	C.1.00685.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00686.1.0	C.1.00686.O	04/09/2001	SOIL BRUSHING	0.25	0.50		
3.C.1.00687.1.0	C.1.00687.O	04/09/2001	SOIL BRUSHING	0.75	1.00		
3.C.1.00688.1.0	C.1.00688.O	04/09/2001	SOIL BRUSHING	0.50	0.75		
3.C.1.00689.1.0	C.1.00689.O	04/09/2001	SOIL BRUSHING	0.25	0.50		
3.D.1.00671.1.0	D.1.00671.O	04/09/2001	SOIL BRUSHING	1.00	1.25		
3.D.1.00680.1.0	D.1.00680.O	04/09/2001	SOIL BRUSHING	0.00	0.25		
6.D.1.00691.1.0	D.1.00691.O	04/09/2001	SOIL BRUSHING	0.25	0.50		
6.D.1.00692.1.0	D.1.00692.O	04/09/2001	SOIL BRUSHING	0.25	0.50		
6.D.1.00710.1.0	D.1.00710.O	04/13/2001	SOIL BRUSHING	0.25	0.50		
6.D.1.00711.1.0	D.1.00711.O	04/13/2001	SOIL BRUSHING	0.25	0.50		
6.D.1.00716.1.0	D.1.00716.O	04/13/2001	SOIL BRUSHING	0.25	0.50		
6.D.1.00719.1.0	D.1.00719.O	04/13/2001	SOIL BRUSHING	0.75	1.00		
6.D.1.00719.1.D	D.1.00719.O	04/13/2001	SOIL BRUSHING	0.75	1.00		
6.D.1.00722.1.0	D.1.00722.O	04/13/2001	SOIL BRUSHING	0.75	1.00		
6.D.1.00723.1.0	D.1.00723.O	04/13/2001	SOIL BRUSHING	0.50	0.75		
HC05FA1AAA	05FA	04/13/2001	SOIL GRAB	0.00	0.25		
HC05FA2AAA	05FA	04/13/2001	SOIL GRAB	0.00	0.25		
HC05FA3AAA	05FA	04/13/2001	SOIL GRAB	0.00	0.25		
HC05FA4AAA	05FA	04/13/2001	SOIL GRAB	0.00	0.25		
HC05FA5AAA	05FA	04/13/2001	SOIL GRAB	0.00	0.25		
HC05FB1AAA	05FB	04/13/2001	SOIL GRAB	0.00	0.25		
HC05FB2AAA	05FB	04/13/2001	SOIL GRAB	0.00	0.25		
HC05FC1AAA	05FC	04/13/2001	SOIL GRAB	0.00	0.25		
HC05FC1AAD	05FC	04/13/2001	SOIL GRAB	0.00	0.25		
HC137A1AAA	137A	04/11/2001	SOIL GRID	0.00	0.25		
HC137A1BAA	137A	04/11/2001	SOIL GRID	0.25	0.50		
HC137A1CAA	137A	04/11/2001	SOIL GRID	0.50	1.00		
HC137A1CAD	137A	04/11/2001	SOIL GRID	0.50	1.00		
HC137B1AAA	137B	04/11/2001	SOIL GRID	0.00	0.25		
HC137B1BAA	137B	04/11/2001	SOIL GRID	0.25	0.50		
HC137B1CAA	137B	04/11/2001	SOIL GRID	0.50	1.00		
HC138A1AAA	138A	04/11/2001	SOIL GRID	0.00	0.25		
HC138A1BAA	138A	04/11/2001	SOIL GRID	0.25	0.50		
HC138A1CAA	138A	04/11/2001	SOIL GRID	0.50	1.00		
HC138A1CAD	138A	04/11/2001	SOIL GRID	0.50	1.00		
HC138B1AAA	138B	04/13/2001	SOIL GRID	0.00	0.25		
HC138B1BAA	138B	04/13/2001	SOIL GRID	0.25	0.50		
HC138B1CAA	138B	04/13/2001	SOIL GRID	0.50	1.00		
HC139A1AAA	139A	04/12/2001	SOIL GRID	0.00	0.25		
HC139A1BAA	139A	04/12/2001	SOIL GRID	0.25	0.50		
HC139A1CAA	139A	04/12/2001	SOIL GRID	0.50	1.00		
HC139A1CAD	139A	04/12/2001	SOIL GRID	0.50	1.00		

Profiling methods include: Volatiles and Explosives

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SBD = Sample Begin Depth, measured in feet bgs

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TABLE 2
 SAMPLING PROGRESS
 4/7/2001-4/13/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC139B1AAA	139B	04/13/2001	SOIL GRID	0.00	0.25		
HC139B1BAA	139B	04/13/2001	SOIL GRID	0.25	0.50		
HC139B1CAA	139B	04/13/2001	SOIL GRID	0.50	1.00		
HC61K1AAA	61K	04/10/2001	SOIL GRID	0.00	0.50		
HC61K1BAA	61K	04/10/2001	SOIL GRID	1.50	2.00		
HC61L1AAA	61L	04/10/2001	SOIL GRID	0.00	0.50		
HC61L1BAA	61L	04/10/2001	SOIL GRID	1.50	2.00		
HD135A1AAA	135A	04/09/2001	SOIL GRID	0.00	0.50		
HD135A1BAA	135A	04/09/2001	SOIL GRID	1.50	2.00		
HD135B1AAA	135B	04/09/2001	SOIL GRID	0.00	0.50		
HD135B1BAA	135B	04/09/2001	SOIL GRID	1.50	2.00		
HD135C1AAA	135C	04/09/2001	SOIL GRID	0.00	0.50		
HD135C1BAA	135C	04/09/2001	SOIL GRID	1.50	2.00		
HD135D1AAA	135D	04/09/2001	SOIL GRID	0.00	0.50		
HD135D1BAA	135D	04/09/2001	SOIL GRID	1.50	2.00		
HD135D1BAD	135D	04/09/2001	SOIL GRID	1.50	2.00		
HD135E1AAA	135E	04/09/2001	SOIL GRID	0.00	0.50		
HD135E1BAA	135E	04/09/2001	SOIL GRID	1.50	2.00		
HD135F1AAA	135F	04/09/2001	SOIL GRID	0.00	0.50		
HD135F1BAA	135F	04/09/2001	SOIL GRID	1.50	2.00		
HD135G1AAA	135G	04/09/2001	SOIL GRID	0.00	0.50		
HD135G1BAA	135G	04/09/2001	SOIL GRID	1.50	2.00		
HD135H1AAA	135H	04/09/2001	SOIL GRID	0.00	0.50		
HD135H1BAA	135H	04/09/2001	SOIL GRID	1.50	2.00		
HD135H1BAD	135H	04/09/2001	SOIL GRID	1.50	2.00		
HD136G1AAA	136G	04/09/2001	SOIL GRID	0.00	0.50		
HD136G1BAA	136G	04/09/2001	SOIL GRID	1.50	2.00		
HD136H1AAA	136H	04/09/2001	SOIL GRID	0.00	0.50		
HD136H1BAA	136H	04/09/2001	SOIL GRID	1.50	2.00		
HD136J1AAA	136J	04/09/2001	SOIL GRID	0.00	0.50		
HD136J1BAA	136J	04/09/2001	SOIL GRID	1.50	2.00		
HD136L1AAA	136L	04/09/2001	SOIL GRID	0.00	0.50		
HD136L1BAA	136L	04/09/2001	SOIL GRID	1.50	2.00		
HD136M1AAA	136M	04/09/2001	SOIL GRID	0.00	0.50		
HD136M1BAA	136M	04/09/2001	SOIL GRID	1.50	2.00		
HD137A1AAA	137A	04/11/2001	SOIL GRID	0.00	0.25		
HD137A1BAA	137A	04/11/2001	SOIL GRID	0.25	0.50		
HD137A1CAA	137A	04/11/2001	SOIL GRID	0.50	1.00		
HD137B1AAA	137B	04/11/2001	SOIL GRID	0.00	0.25		
HD137B1BAA	137B	04/11/2001	SOIL GRID	0.25	0.50		
HD137B1CAA	137B	04/11/2001	SOIL GRID	0.50	1.00		
HD138A1AAA	138A	04/11/2001	SOIL GRID	0.00	0.25		
HD138A1BAA	138A	04/11/2001	SOIL GRID	0.25	0.50		
HD138A1CAA	138A	04/11/2001	SOIL GRID	0.50	1.00		

Profiling methods include: Volatiles and Explosives

Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry

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TABLE 2
 SAMPLING PROGRESS
 4/7/2001-4/13/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD138B1AAA	138B	04/13/2001	SOIL GRID	0.00	0.25		
HD138B1BAA	138B	04/13/2001	SOIL GRID	0.25	0.50		
HD138B1CAA	138B	04/13/2001	SOIL GRID	0.50	1.00		
HD139A1AAA	139A	04/12/2001	SOIL GRID	0.00	0.25		
HD139A1BAA	139A	04/12/2001	SOIL GRID	0.25	0.50		
HD139A1CAA	139A	04/12/2001	SOIL GRID	0.50	1.00		
HD139B1AAA	139B	04/13/2001	SOIL GRID	0.00	0.25		
HD139B1BAA	139B	04/13/2001	SOIL GRID	0.25	0.50		
HD139B1CAA	139B	04/13/2001	SOIL GRID	0.50	1.00		
HD61K1AAA	61K	04/10/2001	SOIL GRID	0.00	0.50		
HD61K1BAA	61K	04/10/2001	SOIL GRID	1.50	2.00		
HD61L1AAA	61L	04/10/2001	SOIL GRID	0.00	0.50		
HD61L1BAA	61L	04/10/2001	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

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 3/23/01-4/13/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G164DIA	MW-164	04/05/2001	PROFILE	200.00	200.00	84.00	84.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G164DIA	MW-164	04/05/2001	PROFILE	200.00	200.00	84.00	84.00	8330N	NITROGLYCERIN	NO
G164DMA	MW-164	04/09/2001	PROFILE	240.00	240.00	127.10	127.10	OC21V	ACETONE	
G164DMA	MW-164	04/09/2001	PROFILE	240.00	240.00	127.10	127.10	OC21V	METHYL ETHYL KETONE (2-BUT	
G164DNA	MW-164	04/09/2001	PROFILE	250.00	250.00	137.10	137.10	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G164DNA	MW-164	04/09/2001	PROFILE	250.00	250.00	137.10	137.10	OC21V	ACETONE	
G164DNA	MW-164	04/09/2001	PROFILE	250.00	250.00	137.10	137.10	OC21V	METHYL ETHYL KETONE (2-BUT	
G164DNA	MW-164	04/09/2001	PROFILE	250.00	250.00	137.10	137.10	OC21V	TOLUENE	
G164DOA	MW-164	04/09/2001	PROFILE	260.00	260.00	147.10	147.10	8330N	NITROGLYCERIN	NO
G164DOA	MW-164	04/09/2001	PROFILE	260.00	260.00	147.10	147.10	OC21V	ACETONE	
G164DPA	MW-164	04/09/2001	PROFILE	270.00	270.00	157.10	157.10	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G164DPA	MW-164	04/09/2001	PROFILE	270.00	270.00	157.10	157.10	8330N	NITROGLYCERIN	NO
G164DPA	MW-164	04/09/2001	PROFILE	270.00	270.00	157.10	157.10	OC21V	ACETONE	
G164DQA	MW-164	04/09/2001	PROFILE	280.00	280.00	167.10	167.10	8330N	NITROGLYCERIN	NO
G164DQA	MW-164	04/09/2001	PROFILE	280.00	280.00	167.10	167.10	OC21V	ACETONE	
G164DRA	MW-164	04/09/2001	PROFILE	290.00	290.00	177.10	177.10	OC21V	ACETONE	
G164DRA	MW-164	04/09/2001	PROFILE	290.00	290.00	177.10	177.10	OC21V	METHYL ETHYL KETONE (2-BUT	
G164DSA	MW-164	04/09/2001	PROFILE	300.00	300.00	187.10	187.10	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G164DSA	MW-164	04/09/2001	PROFILE	300.00	300.00	187.10	187.10	8330N	NITROGLYCERIN	NO
G164DSA	MW-164	04/09/2001	PROFILE	300.00	300.00	187.10	187.10	OC21V	ACETONE	
G164DSA	MW-164	04/09/2001	PROFILE	300.00	300.00	187.10	187.10	OC21V	CHLOROFORM	
G164DTA	MW-164	04/10/2001	PROFILE	310.00	310.00	197.10	197.10	8330N	NITROGLYCERIN	NO
G164DTA	MW-164	04/10/2001	PROFILE	310.00	310.00	197.10	197.10	OC21V	ACETONE	
G164DTA	MW-164	04/10/2001	PROFILE	310.00	310.00	197.10	197.10	OC21V	CHLOROFORM	
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10	8330N	NITROBENZENE	NO
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10	8330N	NITROGLYCERIN	NO
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10	8330N	PENTAERYTHRITOL TETRANITRIF	NO
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10	8330N	PICRIC ACID	NO
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10	OC21V	ACETONE	
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10	OC21V	CHLOROETHANE	
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10	OC21V	CHLOROMETHANE	

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 3/23/01-4/13/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G164DUA	MW-164	04/10/2001	PROFILE	320.00	320.00	207.10	207.10	OC21V	METHYL ETHYL KETONE (2-BUT	

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

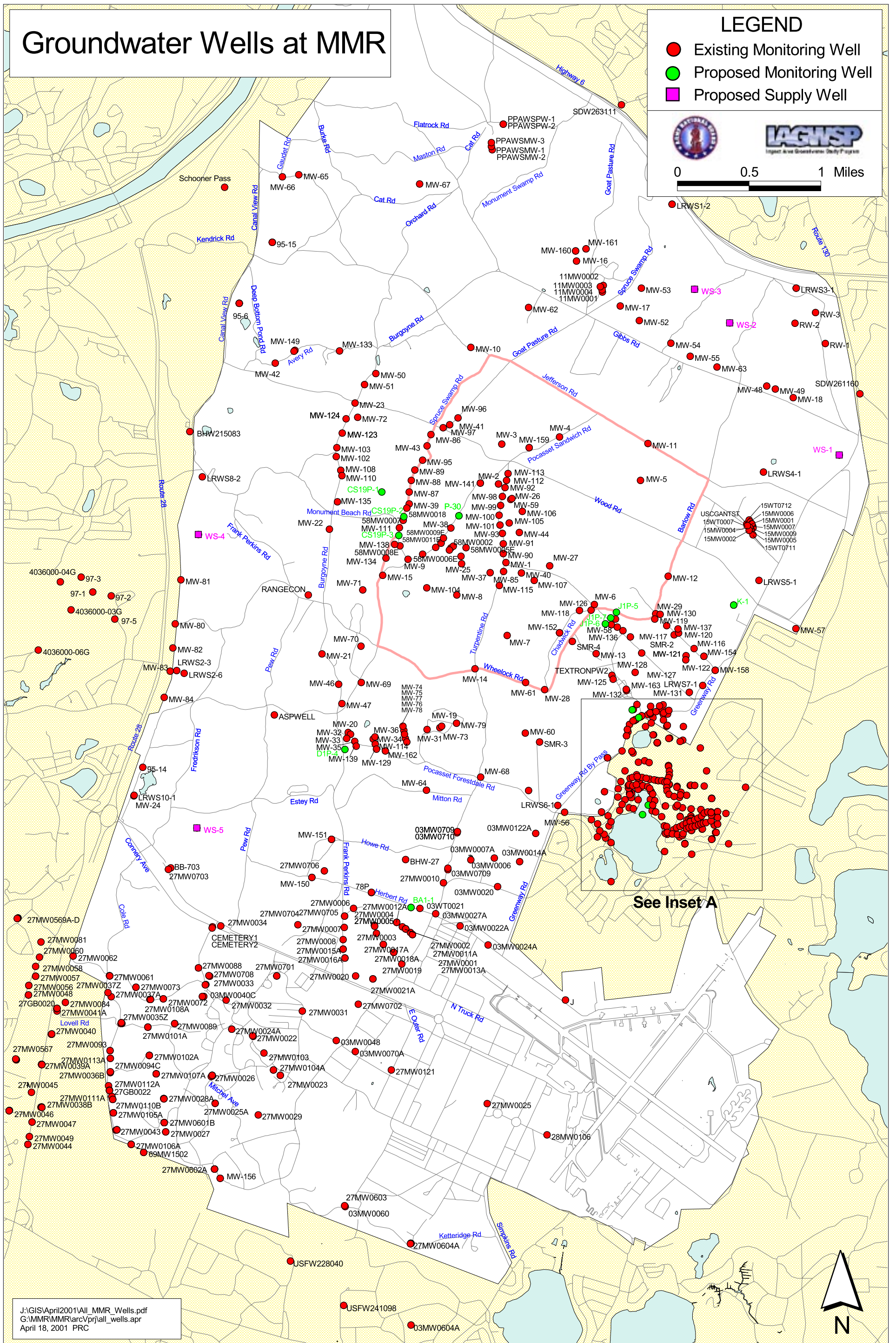
Groundwater Wells at MMR

LEGEND

- Existing Monitoring Well
- Proposed Monitoring Well
- Proposed Supply Well



0 0.5 1 Miles



J:\GIS\April2001\All_MMR_Wells.pdf
 G:\MMR\MMR\arc\prj\all_wells.apr
 April 18, 2001 PRC

