

**WEEKLY PROGRESS UPDATE
FOR DECEMBER 17 – DECEMBER 21, 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 December 17 to December 21, 2001.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of December 21 is summarized in Table 1.

Table 1. Drilling progress as of December 21, 2001				
Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-193	J-3 Range Well (J3P-12)	85	53	
MW-194	J-3 Range Well (J3P-13)	60	3	
MW-195	J-3 Range Well (J3P-14)	120	85	
MW-196	J-3 Range Well (J3P-15)	140	107	
MW-197	J-3 Range Well (J3P-11)	165	145	
MW-198	J-3 Range Well (J3P-16)	155	135	
MW-200	Central Impact Area Well (CIAP-8)	330		
bgs = below ground surface bwt = below water table				

Drilling of MW-193 (J3P-12), MW-196 (J3P-15), MW-197 (J3P-15), and MW-198 (J3P-16) was completed last week, awaiting well installation. Waiting on water in MW-194 (J3P-13). Continued drilling of MW-195 (J3P-14). MW-199 (CIAP-18) was drilled in an incorrect location and therefore, the borehole was backfilled and a well was not installed at this location. Completed drilling of MW-200 (CIAP-8).

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-195 and MW-200. Groundwater samples were collected as part of the December Long Term Groundwater Monitoring round. Surface water samples were collected from Snake Pond beaches. Soil samples were collected from polygons in the J-2 Range. Soil samples were collected from the Suconsette Pond area for a perchlorate method study. Soil samples were collected from soil cuttings at recently installed monitoring wells.

The weekly technical meeting held by the Guard, EPA, and MADEP was postponed for the holidays until January 3, 2002.

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:

- Groundwater profile samples from MW-195 (J3P-14) had detections of chloroform (3 intervals), nitroglycerin (1 interval), and acetone (1 interval). The detection of nitroglycerin was not confirmed by PDA spectra.
- Groundwater profile samples from MW-200 (CIAP-8) had detections of 2,4-DNT (1 interval), 2,6-DNT (1 interval), 3-nitrotoluene (1 interval), 4-nitrotoluene (1 interval), RDX (1 interval), picric acid (1 interval), and nitroglycerin (1 interval). None of these compounds were confirmed by PDA spectra.

3. DELIVERABLES SUBMITTED

J-1, J-3, L Ranges Additional Delineation Workplan #2	12/20/01
Weekly Progress Update, December 10 - December 14, 2001	12/21/01

4. SCHEDULED ACTIONS

Continue Third Quarter 2001 Long Term Groundwater Monitoring.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

The next monitoring well (D1P-9) will be located approximately 600 feet west of Frank Perkins Road at the projected centerline of the plume. Additional monitoring well locations will be identified based on results of the first location. Responses to EPA comments on the Draft Feasibility Study for the Groundwater Operable Unit are being prepared.

TABLE 2
 SAMPLING PROGRESS
 12/15/2001-12/21/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G200DAE	FIELDQC	12/18/2001	FIELDQC	0.00	0.00		
G200DDE	FIELDQC	12/19/2001	FIELDQC	0.00	0.00		
G200DGE	FIELDQC	12/20/2001	FIELDQC	0.00	0.00		
G200DNE	FIELDQC	12/21/2001	FIELDQC	0.00	0.00		
HC101KI1AAE	FIELDQC	12/17/2001	FIELDQC	0.00	0.00		
HC101LD1CAE	FIELDQC	12/19/2001	FIELDQC	0.00	0.00		
HC101LE1CAT	FIELDQC	12/19/2001	FIELDQC	0.00	0.00		
HC101LG1BAE	FIELDQC	12/17/2001	FIELDQC	0.00	0.00		
HC101NL1AAT	FIELDQC	12/18/2001	FIELDQC	0.00	0.00		
HC101NM1AAE	FIELDQC	12/18/2001	FIELDQC	0.00	0.00		
SC19001E	FIELDQC	12/15/2001	FIELDQC	0.00	0.00		
W141M2T	FIELDQC	12/17/2001	FIELDQC	0.00	0.00		
W169M2E	FIELDQC	12/20/2001	FIELDQC	0.00	0.00		
58MW0003	58MW0003	12/15/2001	GROUNDWATER	119.00	124.00	0.30	5.30
95-6A	95-6A	12/17/2001	GROUNDWATER	175.00	185.00	146.00	156.00
95-6B	95-6B	12/17/2001	GROUNDWATER	119.00	129.00	94.00	104.00
95-6ES	95-6ES	12/19/2001	GROUNDWATER	38.00	48.00	0.00	10.00
W102M1A	MW-102	12/19/2001	GROUNDWATER	267.00	277.00	123.00	133.00
W102M2A	MW-102	12/19/2001	GROUNDWATER	237.00	247.00	93.00	103.00
W104SSA	MW-104	12/16/2001	GROUNDWATER	118.00	128.00	0.00	10.00
W114M1A	MW-114	12/21/2001	GROUNDWATER	177.00	187.00	96.00	106.00
W120SSA	MW-120	12/16/2001	GROUNDWATER	103.00	113.00	0.00	10.00
W129M1A	MW-129	12/21/2001	GROUNDWATER	136.00	146.00	66.00	76.00
W129M2A	MW-129	12/21/2001	GROUNDWATER	116.00	126.00	46.00	56.00
W129M3A	MW-129	12/21/2001	GROUNDWATER	96.00	106.00	26.00	36.00
W133M1A	MW-133	12/18/2001	GROUNDWATER	352.00	362.00	136.00	146.00
W133M2A	MW-133	12/18/2001	GROUNDWATER	321.00	331.00	105.00	115.00
W135M1A	MW-135	12/18/2001	GROUNDWATER	319.00	329.00	133.00	143.00
W135M2A	MW-135	12/18/2001	GROUNDWATER	280.00	290.00	133.00	143.00
W135M2D	MW-135	12/18/2001	GROUNDWATER	280.00	290.00	133.00	143.00
W135M3A	MW-135	12/18/2001	GROUNDWATER	239.00	249.00	53.00	63.00
W141M1A	MW-141	12/15/2001	GROUNDWATER	190.00	200.00	62.00	72.00
W141M1D	MW-141	12/15/2001	GROUNDWATER	190.00	200.00	62.00	72.00
W141M2A	MW-141	12/16/2001	GROUNDWATER	162.00	172.00	34.00	44.00
W141SSA	MW-141	12/16/2001	GROUNDWATER	128.00	138.00	0.00	10.00
W141SSD	MW-141	12/16/2001	GROUNDWATER	128.00	138.00	0.00	10.00
W169M1A	MW-169	12/20/2001	GROUNDWATER	154.00	159.00	151.00	156.00
W169M2A	MW-169	12/20/2001	GROUNDWATER	113.50	118.50	111.00	116.00
W16DDA	MW-16	12/17/2001	GROUNDWATER	355.00	360.00	223.00	228.00
W16DDD	MW-16	12/17/2001	GROUNDWATER	355.00	360.00	223.00	228.00
W16SSA	MW-16	12/18/2001	GROUNDWATER	125.00	135.00	0.00	10.00
W171M1A	MW-171	12/21/2001	GROUNDWATER	141.00	146.00	139.50	144.50
W171M2A	MW-171	12/21/2001	GROUNDWATER	81.00	86.00	79.50	84.50

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
 12/15/2001-12/21/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W171M3A	MW-171	12/20/2001	GROUNDWATER	29.00	34.00	27.50	32.50
W17DDA	MW-17	12/18/2001	GROUNDWATER	320.00	330.00	196.00	206.00
W19DDA	MW-19	12/16/2001	GROUNDWATER	293.00	298.00	254.00	259.00
W21M3A	MW-21	12/20/2001	GROUNDWATER	196.00	206.00	28.00	38.00
W21SSA	MW-21	12/20/2001	GROUNDWATER	164.00	174.00	0.00	10.00
W30SSA	MW-30	12/19/2001	GROUNDWATER	26.00	36.00	0.00	10.00
W35M1A	MW-35	12/21/2001	GROUNDWATER	155.00	165.00	68.00	78.00
W35M2A	MW-35	12/21/2001	GROUNDWATER	100.00	110.00	13.00	23.00
W39M1A	MW-39	12/15/2001	GROUNDWATER	220.00	230.00	84.00	94.00
W39M2A	MW-39	12/15/2001	GROUNDWATER	175.00	185.00	39.00	49.00
W42M1A	MW-42	12/18/2001	GROUNDWATER	205.00	215.00	137.00	147.00
W42M2A	MW-42	12/17/2001	GROUNDWATER	186.00	196.00	118.00	128.00
W42M3A	MW-42	12/17/2001	GROUNDWATER	166.00	176.00	118.00	128.00
W42M3D	MW-42	12/17/2001	GROUNDWATER	166.00	176.00	118.00	128.00
W43M1A	MW-43	12/15/2001	GROUNDWATER	223.00	233.00	90.00	100.00
W43M2A	MW-43	12/15/2001	GROUNDWATER	200.00	210.00	67.00	77.00
W45M2A	MW-45	12/17/2001	GROUNDWATER	110.00	120.00	18.00	28.00
W46M1A	MW-46	12/20/2001	GROUNDWATER	262.00	272.00	103.00	113.00
W46M1D	MW-46	12/20/2001	GROUNDWATER	262.00	272.00	103.00	113.00
W46M2A	MW-46	12/20/2001	GROUNDWATER	215.00	225.00	56.00	66.00
W47DDA	MW-47	12/19/2001	GROUNDWATER	194.00	204.00	100.00	110.00
W47M1A	MW-47	12/19/2001	GROUNDWATER	169.00	179.00	75.00	85.00
W47M2A	MW-47	12/20/2001	GROUNDWATER	131.50	141.50	38.00	48.00
W47M2D	MW-47	12/20/2001	GROUNDWATER	131.50	141.50	38.00	48.00
W47M3A	MW-47	12/19/2001	GROUNDWATER	115.00	125.00	21.00	31.00
W51DDA	MW-51	12/17/2001	GROUNDWATER	264.00	274.00	118.00	128.00
W51M1A	MW-51	12/17/2001	GROUNDWATER	234.00	244.00	88.00	98.00
W57DDA	MW-57	12/19/2001	GROUNDWATER	213.00	223.00	127.00	137.00
W57M1A	MW-57	12/19/2001	GROUNDWATER	188.00	198.00	102.00	112.00
W57M2A	MW-57	12/19/2001	GROUNDWATER	148.00	158.00	62.00	72.00
W57M3A	MW-57	12/19/2001	GROUNDWATER	117.00	127.00	31.00	41.00
W57M3D	MW-57	12/19/2001	GROUNDWATER	117.00	127.00	31.00	41.00
W57SSA	MW-57	12/19/2001	GROUNDWATER	85.00	95.00	0.00	10.00
W68SSA	MW-68	12/20/2001	GROUNDWATER	84.00	94.00	0.00	10.00
W69SSA	MW-69	12/19/2001	GROUNDWATER	110.00	120.00	0.00	10.00
W84DDA	MW-84	12/20/2001	GROUNDWATER	190.00	200.00	153.00	163.00
W84M1A	MW-84	12/20/2001	GROUNDWATER	140.00	150.00	103.00	113.00
W85M1A	MW-85	12/15/2001	GROUNDWATER	137.50	145.50	22.00	32.00
W85SSA	MW-85	12/15/2001	GROUNDWATER	116.00	126.00	1.00	11.00
W85SSD	MW-85	12/15/2001	GROUNDWATER	116.00	126.00	1.00	11.00
W90M1A	MW-90	12/16/2001	GROUNDWATER	145.00	155.00	27.00	37.00
W90SSA	MW-90	12/16/2001	GROUNDWATER	118.00	128.00	0.00	10.00
W91SSA	MW-91	12/20/2001	GROUNDWATER	124.00	134.00	0.00	10.00
W95M1A	MW-95	12/15/2001	GROUNDWATER	202.00	212.00	78.00	88.00

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
12/15/2001-12/21/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W95M2A	MW-95	12/15/2001	GROUNDWATER	167.00	177.00	43.00	53.00
W95SSA	MW-95	12/15/2001	GROUNDWATER	125.00	135.00	1.00	11.00
W97M1A	MW-97	12/15/2001	GROUNDWATER	235.00	245.00	112.00	122.00
W97M2A	MW-97	12/15/2001	GROUNDWATER	185.00	195.00	62.00	72.00
W97M3A	MW-97	12/16/2001	GROUNDWATER	140.00	150.00	17.00	27.00
G195DHA	MW-195	12/19/2001	PROFILE	105.00	110.00	70.10	75.10
G200DAA	MW-200	12/18/2001	PROFILE	205.00	205.00		
G200DAD	MW-200	12/18/2001	PROFILE	205.00	205.00		
G200DBA	MW-200	12/18/2001	PROFILE	210.00	210.00		
G200DCA	MW-200	12/18/2001	PROFILE	220.00	220.00		
G200DDA	MW-200	12/19/2001	PROFILE	230.00	230.00		
G200DEA	MW-200	12/19/2001	PROFILE	240.00	240.00		
G200DFA	MW-200	12/20/2001	PROFILE	250.00	250.00		
G200DGA	MW-200	12/20/2001	PROFILE	260.00	260.00		
G200DHA	MW-200	12/20/2001	PROFILE	270.00	270.00		
G200DIA	MW-200	12/20/2001	PROFILE	280.00	280.00		
G200DJA	MW-200	12/21/2001	PROFILE	290.00	290.00		
G200DKA	MW-200	12/21/2001	PROFILE	300.00	300.00		
G200DLA	MW-200	12/21/2001	PROFILE	310.00	310.00		
G200DMA	MW-200	12/21/2001	PROFILE	320.00	320.00		
G200DNA	MW-200	12/21/2001	PROFILE	330.00	330.00		
G200DND	MW-200	12/21/2001	PROFILE	330.00	330.00		
SC17001	IDW	12/15/2001	SOIL CUTTINGS	0.00	0.00		
SC17901	IDW	12/15/2001	SOIL CUTTINGS	0.00	0.00		
SC18401	IDW	12/15/2001	SOIL CUTTINGS	0.00	0.00		
SC18701	IDW	12/15/2001	SOIL CUTTINGS	0.00	0.00		
SC18801	IDW	12/15/2001	SOIL CUTTINGS	0.00	0.00		
SC18901	IDW	12/15/2001	SOIL CUTTINGS	0.00	0.00		
SC19001	IDW	12/15/2001	SOIL CUTTINGS	0.00	0.00		
SC19101	IDW	12/15/2001	SOIL CUTTINGS	0.00	0.00		
SC19201	IDW	12/15/2001	SOIL CUTTINGS	0.00	0.00		
HC101KI1AAA	101KI	12/17/2001	SOIL GRID	0.00	0.25		
HC101KI1BAA	101KI	12/17/2001	SOIL GRID	0.25	0.50		
HC101KI1CAA	101KI	12/17/2001	SOIL GRID	0.50	1.00		
HC101LC1AAA	101LC	12/19/2001	SOIL GRID	0.00	0.25		
HC101LC1BAA	101LC	12/19/2001	SOIL GRID	0.25	0.50		
HC101LC1CAA	101LC	12/19/2001	SOIL GRID	0.50	1.00		
HC101LD1AAA	101LD	12/19/2001	SOIL GRID	0.00	0.25		
HC101LD1AAD	101NL	12/18/2001	SOIL GRID	0.00	0.25		
HC101LD1BAA	101LD	12/19/2001	SOIL GRID	0.25	0.50		
HC101LD1CAA	101LD	12/19/2001	SOIL GRID	0.50	1.00		
HC101LE1AAA	101LE	12/19/2001	SOIL GRID	0.00	0.25		
HC101LE1BAA	101LE	12/19/2001	SOIL GRID	0.25	0.50		
HC101LE1CAA	101LE	12/19/2001	SOIL GRID	0.50	1.00		

Profiling methods include: Volatiles and Explosives

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

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
 12/15/2001-12/21/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC101LF1AAA	101LF	12/17/2001	SOIL GRID	0.00	0.25		
HC101LF1BAA	101LF	12/17/2001	SOIL GRID	0.25	0.50		
HC101LF1CAA	101LF	12/17/2001	SOIL GRID	0.50	1.00		
HC101LG1AAA	101LG	12/17/2001	SOIL GRID	0.00	0.25		
HC101LG1AAD	101LG	12/17/2001	SOIL GRID	0.00	0.25		
HC101LG1BAA	101LG	12/17/2001	SOIL GRID	0.25	0.50		
HC101LG1CAA	101LG	12/17/2001	SOIL GRID	0.50	1.00		
HC101NL1AAA	101NL	12/18/2001	SOIL GRID	0.00	0.25		
HC101NL1AAD	101NL	12/18/2001	SOIL GRID	0.00	0.25		
HC101NL1BAA	101NL	12/18/2001	SOIL GRID	0.25	0.50		
HC101NL1CAA	101NL	12/18/2001	SOIL GRID	0.50	1.00		
HC101NM1AAA	101NM	12/18/2001	SOIL GRID	0.00	0.25		
HC101NM1BAA	101NM	12/18/2001	SOIL GRID	0.25	0.50		
HC101NM1CAA	101NM	12/18/2001	SOIL GRID	0.50	1.00		
SCPNPPTH2	SCPNPPTH2	12/17/2001	SOIL GRID	0.00	0.50		
LKSNP0004AAA	LKSNP0004AAA	12/17/2001	SURFACE WATER	0.00	0.00		
LKSNP0005AAA	LKSNP0005AAA	12/17/2001	SURFACE WATER	0.00	0.00		

Profiling methods include: Volatiles and Explosives

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 12/1/01-12/21/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G195DBA	MW-195	12/14/2001	PROFILE	45.00	50.00	10.10	15.10	8330N	NITROGLYCERIN	NO
G195DBA	MW-195	12/14/2001	PROFILE	45.00	50.00	10.10	15.10	OC21V	CHLOROFORM	
G195DCA	MW-195	12/14/2001	PROFILE	55.00	60.00	20.10	25.10	OC21V	CHLOROFORM	
G195DHA	MW-195	12/19/2001	PROFILE	105.00	110.00	70.10	75.10	OC21V	ACETONE	
G195DHA	MW-195	12/19/2001	PROFILE	105.00	110.00	70.10	75.10	OC21V	CHLOROFORM	
G200DAA	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	2,4-DINITROTOLUENE	NO
G200DAA	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	2,6-DINITROTOLUENE	NO
G200DAA	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	3-NITROTOLUENE	NO
G200DAA	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	4-NITROTOLUENE	NO
G200DAA	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	NO
G200DAA	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	NITROGLYCERIN	NO
G200DAA	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	PICRIC ACID	NO
G200DAD	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	2,4-DINITROTOLUENE	NO
G200DAD	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	2,6-DINITROTOLUENE	NO
G200DAD	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	NO
G200DAD	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	NITROGLYCERIN	NO
G200DAD	MW-200	12/18/2001	PROFILE	205.00	205.00			8330N	PICRIC ACID	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

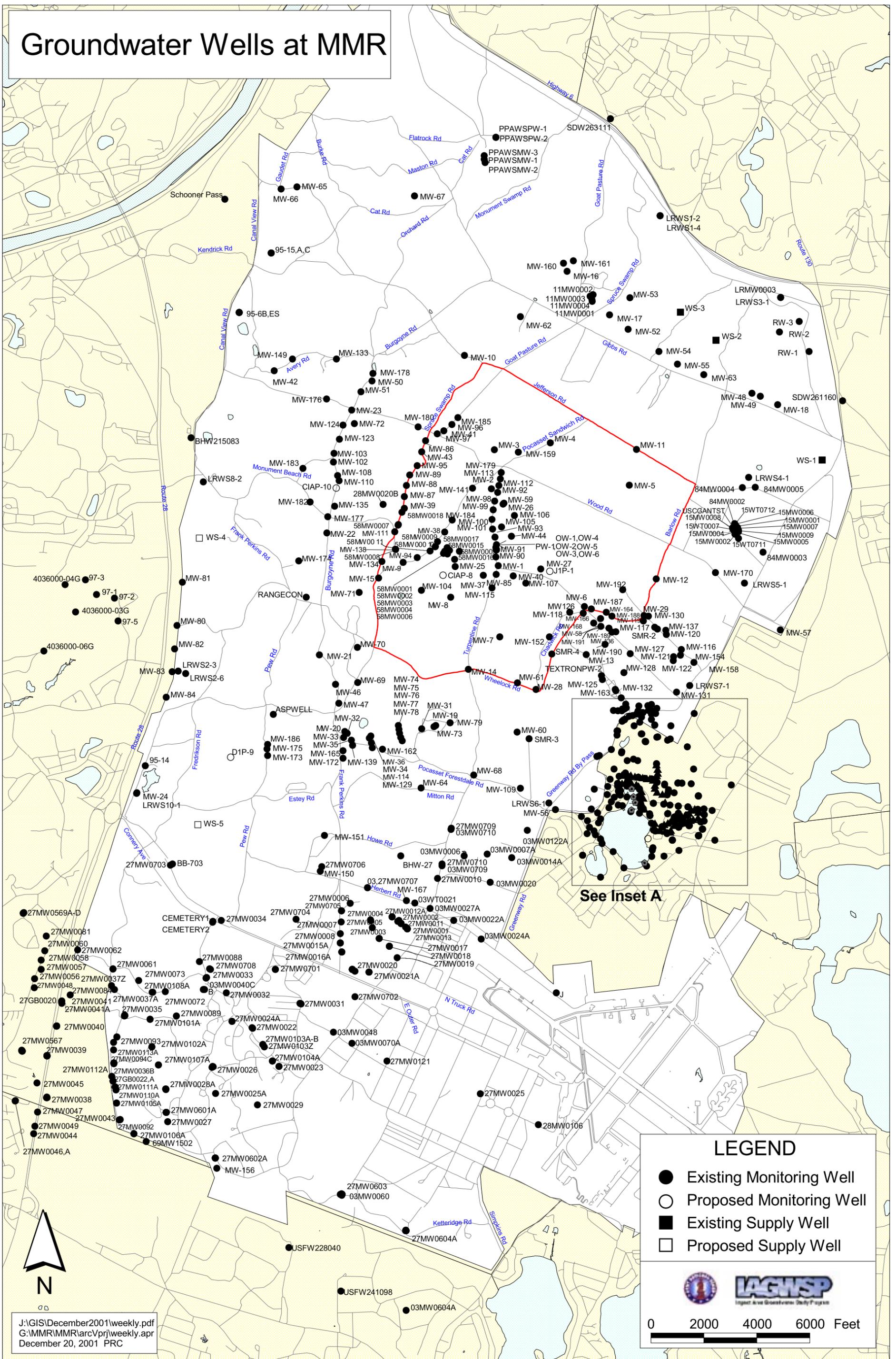
BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET

PDA/YES = Photo Diode Array, Detect Confirmed

PDA/NO = Photo Diode Array, Detect Not Confirmed

* = Interference in sample

Groundwater Wells at MMR



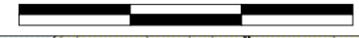
LEGEND

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



IAGWSP
Impact Area Groundwater Study Program

0 2000 4000 6000 Feet



J:\GIS\December2001\weekly.pdf
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December 20, 2001 PRC



LEGEND

- Proposed Wells
- Existing Wells
- ▲ Injection/Extraction Wells
- ⬠ Surface Water Samples
- ⊕ Wells Sampled for Explosives but Damaged or Removed



Inset A

