WEEKLY PROGRESS UPDATE
FOR JULY 16 – JULY 20, 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 July 16 to July 20, 2001.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of July 20 is summarized in Table 1.

Table 1. Drilling progress as of July 20, 2001

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-175	Demo 1 Area Well (D1P-7)	332	208	

Bgs = below ground surface
Bwt = below water table

Commenced drilling MW-175 (D1P-7). Continued well development of newly installed wells, including MW-174.

Samples collected during the reporting period are summarized in Table 2. Profile samples were collected in MW-175. Drive point and surface water samples were collected in Snake Pond. Groundwater samples were collected at the new well in Demo Area 1 (MW-173), PZ0208, and MW-62. Soil samples were collected as part of the bottom survey at the Demo 1 Area. As part of the HUTA investigation, pre- and post detonation soil samples were collected in Test Pit 5.

The Guard, EPA, and MADEP had a meeting on July 19 to discuss technical issues, including the following:

Attendees

Ben Gregson (IAGWSPO)	Dave Hill (IAGWSPO)	CPT Bill Meyer (IAGWSPO)
Bill Gallagher (IAGWSPO)	Karen Wilson (IAGWSPO)	Tina Dolen (IAGWSPO)
LTC Albert Bleakley (JPO)	Todd Borci (EPA)	Mike Jasinski (EPA-phone)
Jane Dolan (EPA)	Jim Murphy (EPA)	Mark Panni (MADEP)
Darrell Deleppo (ACE)	John MacPherson (ACE)	Ed Wise (ACE)
Ellen Iorio (ACE)	Gina Tyo (ACE)	Marc Grant (AMEC)
John Rice (AMEC)	Kim Harriz (AMEC)	Scott Veenstra (AMEC-phone)
Herb Colby (AMEC)	Larry Hudgins (Tetra Tech)	Leo Montroy (Tt-phone)
Ken Gaynor (Jacobs)	Elizabeth Stevens (Guild)	Dave Williams (MDPH)

HUTA 1 Backfilling

- Ellen Iorio (ACE) indicated that Tetra Tech had backfilled Test Pit 6 with soil from Test Pits 4 and 6, using the two soil lifts that had been approved by Todd Borci (EPA). This soil was sufficient to stabilize the road between Test Pit 5 and 6.
- Mr. Borci indicated that Lift 3 from Test Pit 4 could also be used as backfill if a question he had regarding the reporting units is addressed. Larry Hudgins (Tetra Tech) to check.

Demo 1 Historical Bottom Survey

- Ellen Iorio (ACE) indicated that the wet area at Demo 1 was determined not to be a regulated wetland and therefore, anomaly excavation could progress as proposed.
- Larry Hudgins (Tetra Tech) indicated that 13 of 19 anomalies have been excavated in the Demo 1 area. The remaining anomalies are scheduled to be excavated Monday. Two of the anomalies are in the wet area. A sump will be excavated downgradient of the area to drain this water prior to excavating the anomalies.
- Ellen Iorio (ACE) indicated that 10 test pits would be excavated and sampled to determine the historical bottom of the Demo 1 area, per the EPA's request.
- Todd Borci (EPA) indicated that test pitting at the first burn pit and test pits excavated at Anomalies 26, 27, 33, 36 could be counted toward the 10 test pit total. Mr. Borci and Mike Jasinski (EPA) would discuss locations of remaining 5 pits and provide to the Guard/ACE on Monday. Mr. Hudgins stated that burn layers and small arms had been detected in pits excavated at the 4 anomalies indicated. EPA requested a summary of findings to date.
- The pit excavated at Anomaly 27 had been backfilled; other pits at remaining 3 anomalies were covered with plastic and would be backfilled after EPA's site visit. Mark Panni (MADEP) also requested to be included in the site visit. These three burn pits had been found up out of the depression in the vicinity of the access road to Demo 1; whereas the pit at Anomaly 27 was within the depression.

Mortar Target 9 Discussion

- Scott Veenstra (AMEC) requested a date for the Comment Resolution Meeting on the RRA Completion of Work Report. Jane Dolan (EPA) indicated that it could be held after next week's Tech meeting, 7/26.
- All available data on Mortar Target 9 have been reviewed by the agencies. It has been agreed that the scope of the removal would include excavating soil from the 0 to 35 ft radius from the target to 2 ft bgs and quadrant A of the 35-45 ft radius to 1 ft bgs.
- The excavation contractor has not committed to mobilization before Aug 3. Mr. Veenstra to update Ben Gregson (IAGWSPO) on Monday regarding the possibility of an earlier mobilization, as the agencies have requested. Mr. Gregson to notify Todd Borci (EPA).
- Ms. Dolan requested an update from Karen Wilson (IAGWSPO) on the plan to complete the site restoration tasks following the Tech meeting.
- Mr. Veenstra indicated that other items that were needed before implementing the removal process were 1) a modified Record of Action and 2) a letter to EPA identifying modifications to the Work Plan addendum that reflected changes in soil management and disposal.

Ground Truthing - AirMag

- Ellen Iorio (ACE) indicated that presentation of Air Mag ground truthing could be moved up to August 2. The presentation would encompass ground truthing of both primary and secondary list targets, to include presentation of results, findings and recommendations for follow-on work.
- Ms. Iorio distributed copies of photographs of anomalies Todd Borci (EPA) had requested information on. Copies of photos and information on 5 anomalies that are examples of the types of areas that the Guard would propose to be excavated for further characterization were also distributed. The anomalies would be overlain with a USGS map with geological features to see if any of the anomalies could be accounted for by these features.
- Larry Hudgins (Tetra Tech) indicated that a progress report had been forwarded to the Guard/ACE summarizing information gathered up to Friday, 7/13. 166/186 of the primary targets were ground truthed to date; completion of the primary list was expected by noon tomorrow.

Petroleum-like Material

- Herb Colby (AMEC) indicated that AMEC was setting up a forensic fingerprint of water sampled from MW-170 and MW-45 (a well in the FS-12 plume) plus an EPH analysis (DEP method). VPH could not be done because the sample, which was a profile sample collected when MW-170 was drilled, could not meet the preservation and holding time requirements for the results to be valid.
- Todd Borci (EPA) pointed out that EPA had requested that the sample from MW-164 be analyzed for EPH and VPH. Was that done and shouldn't that data be available shortly? Mr. Colby to check.
- Mr. Borci further suggested that the material was likely to be Kerosene, which was a material between JP-5 and diesel. This would be consistent with burning activities likely conducted at the J-1 Range.
- Jane Dolan (EPA) asked why AMEC was focusing on the FS-12 plume. Mr. Colby indicated that although the FS-12 area may not be the origin of the material; the PLM may be similar to the materials found in this area.
- Mr. Colby indicated that the forensic fingerprinting involved using both a GC and GC/MS analysis at the Woods Hole Group laboratory by an analyst who specialized in petroleum identification. The fingerprinting process would involve a lengthening of the retention time for a more detailed resolution of peaks. A wider range of standards would be used to identify the materials.

J Range Response Plan Update

- Jane Dolan (EPA)/Guard indicated that the progress of the Plan was as follows:
    - Diffusion sampler dialysis membranes were being tested by the USGS using water collected from 4 wells in the USDA office on base. Data should be available in 2 weeks.
    - No cost info had been received from USGS.
    - Sampling of 2 Sandwich Sentry wells for Phase I analytes would be completed by AMEC per the proposal discussed at last week's Tech meeting.
    - PZ211 was non detect for explosives.
    - Property owner at PZ208 had been sent a letter that the Guard intends to sample the piezometer unless they receive some notice of refusal from the property owner.
- Dave Williams (MDPH) inquired about Sandwich residential well results. Marc Grant (AMEC) indicated that the Old Snake Pond Rd well and 3 Carr Lane wells had all been non-detect for explosives. Current Perchlorate data had been sent out earlier in the week. A new explosive update should be sent out soon.
- Ms. Dolan (EPA) inquired about the area of contamination map that was supposed to be completed as a part of the J Range Response Plan to define the area of contribution (determine boundaries of) for the explosive detection in MW-171 in groundwater beneath the Snake Pond spit. Herb Colby (AMEC) to provide a date for submitting proposal within the a couple weeks.

Schedule and Documents

- Todd Borci (EPA) inquired if the Training Area deliverable schedule was the only outstanding schedule that required resolution of an extension. CPT Myer (IAGWSPO) pointed out that the Draft ASR extension request would be sent out next week.
- Marc Grant (AMEC) reviewed the Documents Having/Needing Comments.
    - Comments were received for Tech memo 01-12.

  - CDC Test Results Reports? Mr. Borci indicated that were planning to provide in about 4 weeks.
  - Tech Memo 01-7 Comments? Mr. Borci said also probably within 4 weeks as there were a lot of comment/changes requested.
  - Comments had been received on DU Report.
- Mr. Grant indicated that July 30 deadline for the Training Areas Report was approaching and something needed to be done to alleviate this deadline. Mr. Borci to review schedule and touch base with Ben Gregson (IAGWSPO). Mr. Borci indicated that this will likely be scoped as a FY02 task. The EPA wants to wait on interviews, which have started up again, to identify additional information. Will likely request a letter proposing a new schedule.
- Comment resolution meeting for HUTA-1 was set up for Wednesday, 7/25 at 2pm.

Next Tech Meeting Topics
RRA COWR Comment Resolution meeting
AirMag Ground Truthing
Demo 1 Area Wetland and Bottom Survey
Petroleum-Like Material
IART Agenda – action items

A breakout meeting on J-1/J-3/L Ranges Additional Delineation Plan followed the Tech meeting.

2. SUMMARY OF DATA RECEIVED

No Rush Data were received this week.

3. DELIVERABLES SUBMITTED

Central Impact Area Soil Report (Technical Memorandum 01-13)	7/16/01
Weekly Progress Update, July 9 – July 13, 2001	7/20/01

4. SCHEDULED ACTIONS

Scheduled actions for the week of July 23 include complete installation of MW-175 (D1P-7), commence drilling CIAP-1; commence August Long Term groundwater monitoring, and continue soil sampling at J-2 Range.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

An additional downgradient well location MW-175 (D1P-7) was drilled and will be completed next week. A survey is being conducted to identify the base of the disposal/burn areas with the Demo 1 Area. This includes excavation of anomalies identified as part of the AirMag survey, test pitting, and soil sample collection. Analysis of first, second, and third round groundwater samples from newly installed wells is ongoing.

TABLE 2
SAMPLING PROGRESS
7/14/2001-7/20/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
5.A.1.01016.1.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.10.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.2.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.3.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.4.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.5.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.6.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.7.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.8.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01016.9.0	A.1.01016.R	07/19/2001	CRATER GRID	2.75	3.00		
5.A.1.01017.1.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.10.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.2.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.3.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.4.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.5.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.6.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.7.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.8.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01017.9.0	A.1.01017.R	07/19/2001	CRATER GRID	3.00	3.25		
5.A.1.01018.1.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.10	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.2.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.3.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.4	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.5.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.6.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.7.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.8.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01018.9.0	A.1.01018.R	07/19/2001	CRATER GRID	2.00	2.25		
5.A.1.01019.1.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.10.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.2.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.3.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.4.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.5.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.6.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.7.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.8.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	1.25		
5.A.1.01019.9.0	A.1.01019.R	07/19/2001	CRATER GRID	1.00	2.00		
0.G.0.00106.0.T	TRIP BLANK 106	07/18/2001	FIELDQC	0.00	0.00		
0.G.0.00107.0.T	TRIP BLANK 107	07/19/2001	FIELDQC	0.00	0.00		
90PZ0208E	FIELDQC	07/20/2001	FIELDQC	0.00	0.00		

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
7/14/2001-7/20/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G175DAE	FIELDQC	07/17/2001	FIELDQC	0.00	0.00		
G175DBE	FIELDQC	07/18/2001	FIELDQC	0.00	0.00		
G175DGE	FIELDQC	07/19/2001	FIELDQC	0.00	0.00		
G175DPE	FIELDQC	07/20/2001	FIELDQC	0.00	0.00		
90PZ0208A	90PZ0208	07/20/2001	GROUNDWATER	100.00	105.00	84.40	89.40
90SNP001	90SNP001	07/16/2001	GROUNDWATER				
90SNP002	90SNP002	07/16/2001	GROUNDWATER				
W173M1A	MW-173	07/18/2001	GROUNDWATER	246.00	256.00	110.20	120.20
W173M2A	MW-173	07/19/2001	GROUNDWATER	208.00	218.00	72.40	82.40
W173M3A	MW-173	07/19/2001	GROUNDWATER	188.00	198.00	52.20	62.20
W62SSA	MW-62	07/19/2001	GROUNDWATER	108.00	118.00	0.00	10.00
G175DAA	MW-175	07/17/2001	PROFILE	135.00	135.00	10.90	10.90
G175DBA	MW-175	07/18/2001	PROFILE	145.00	145.00	20.90	20.90
G175DCA	MW-175	07/18/2001	PROFILE	155.00	155.00	30.90	30.90
G175DCD	MW-175	07/18/2001	PROFILE	155.00	155.00	30.90	30.90
G175DDA	MW-175	07/18/2001	PROFILE	165.00	165.00	40.90	40.90
G175DEA	MW-175	07/18/2001	PROFILE	175.00	175.00	50.90	50.90
G175DFA	MW-175	07/18/2001	PROFILE	185.00	185.00	60.90	60.90
G175DFD	MW-175	07/18/2001	PROFILE	185.00	185.00	60.90	60.90
G175DGA	MW-175	07/19/2001	PROFILE	195.00	195.00	70.90	70.90
G175DIA	MW-175	07/19/2001	PROFILE	215.00	215.00	90.90	90.90
G175DJA	MW-175	07/19/2001	PROFILE	225.00	225.00	100.90	100.90
G175DKA	MW-175	07/19/2001	PROFILE	235.00	235.00	110.90	110.90
G175DLA	MW-175	07/19/2001	PROFILE	245.00	245.00	120.90	120.90
G175DMA	MW-175	07/19/2001	PROFILE	255.00	255.00	130.90	130.90
G175DNA	MW-175	07/19/2001	PROFILE	265.00	265.00	140.90	140.90
G175DOA	MW-175	07/19/2001	PROFILE	275.00	275.00	150.90	150.90
G175DPA	MW-175	07/19/2001	PROFILE	285.00	285.00	160.90	160.90
G175DQA	MW-175	07/19/2001	PROFILE	295.00	295.00	170.90	170.90
G175DRA	MW-175	07/19/2001	PROFILE	305.00	305.00	180.90	180.90
G175DSA	MW-175	07/19/2001	PROFILE	315.00	315.00	190.90	190.90
G175DTA	MW-175	07/19/2001	PROFILE	325.00	325.00	200.90	200.90
D1.F.3.00026.1.0	D1.3.00026	07/16/2001	SOIL GRID	0.00	2.00		
D1.F.3.00026.2.0	D1.3.00026	07/16/2001	SOIL GRID	5.00	5.00		
D1.F.3.00033.1.0	D1.3.00033	07/16/2001	SOIL GRID	2.00	3.00		
D1.F.3.00033.2.0	D1.3.00033	07/16/2001	SOIL GRID	4.25	4.25		
D1.F.3.00036.1.0	D1.3.00036	07/16/2001	SOIL GRID	3.50	4.00		
D1.F.3.00036.2.0	D1.3.00036	07/16/2001	SOIL GRID	5.25	5.25		
LKSNK004AAA	SNK0004	07/18/2001	SURFACE WATER	0.00	0.00		
LKSNK005AAA	SNK0005	07/18/2001	SURFACE WATER	0.00	0.00		

Profiling methods include: Volatiles and Explosives
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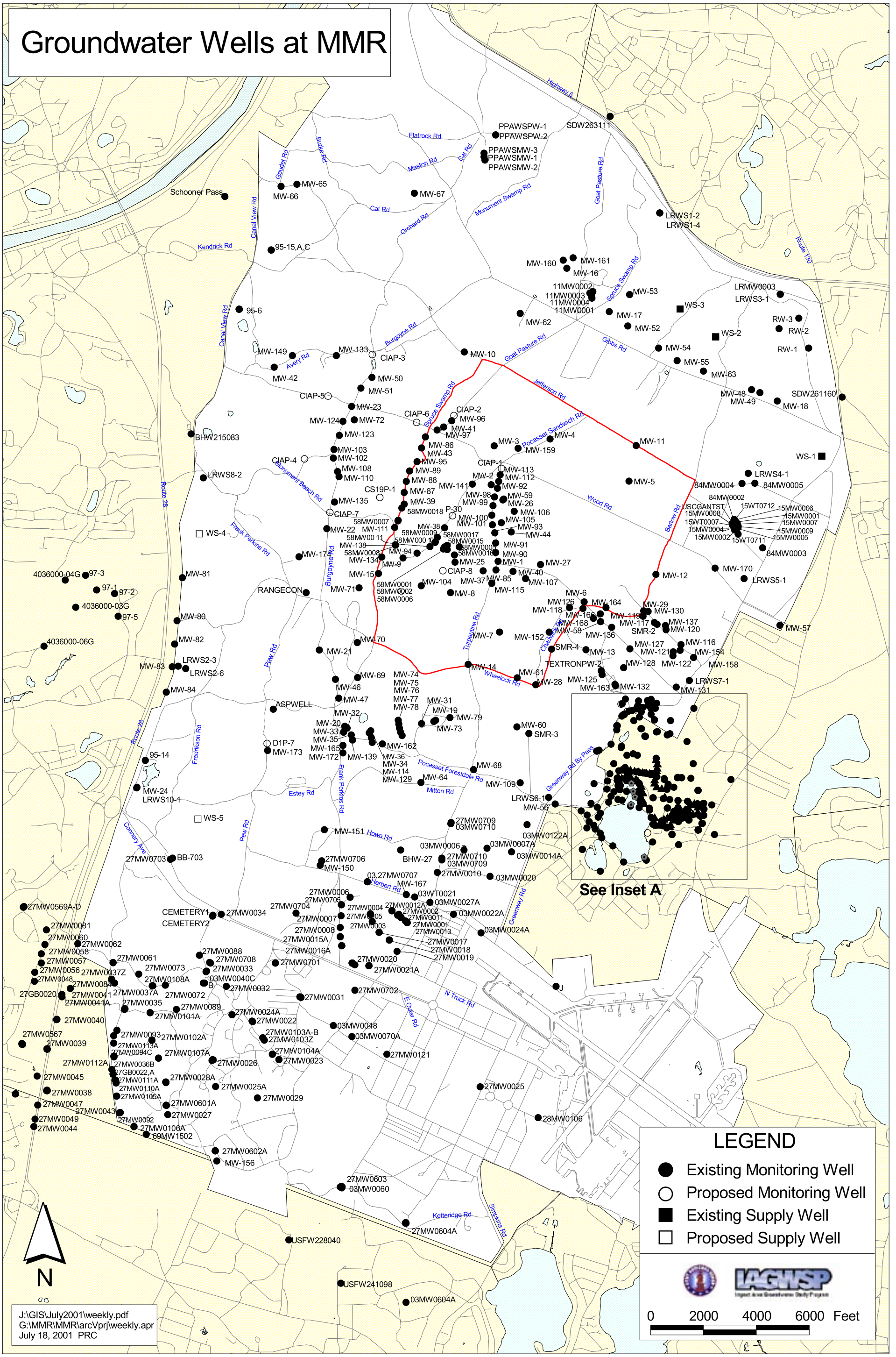
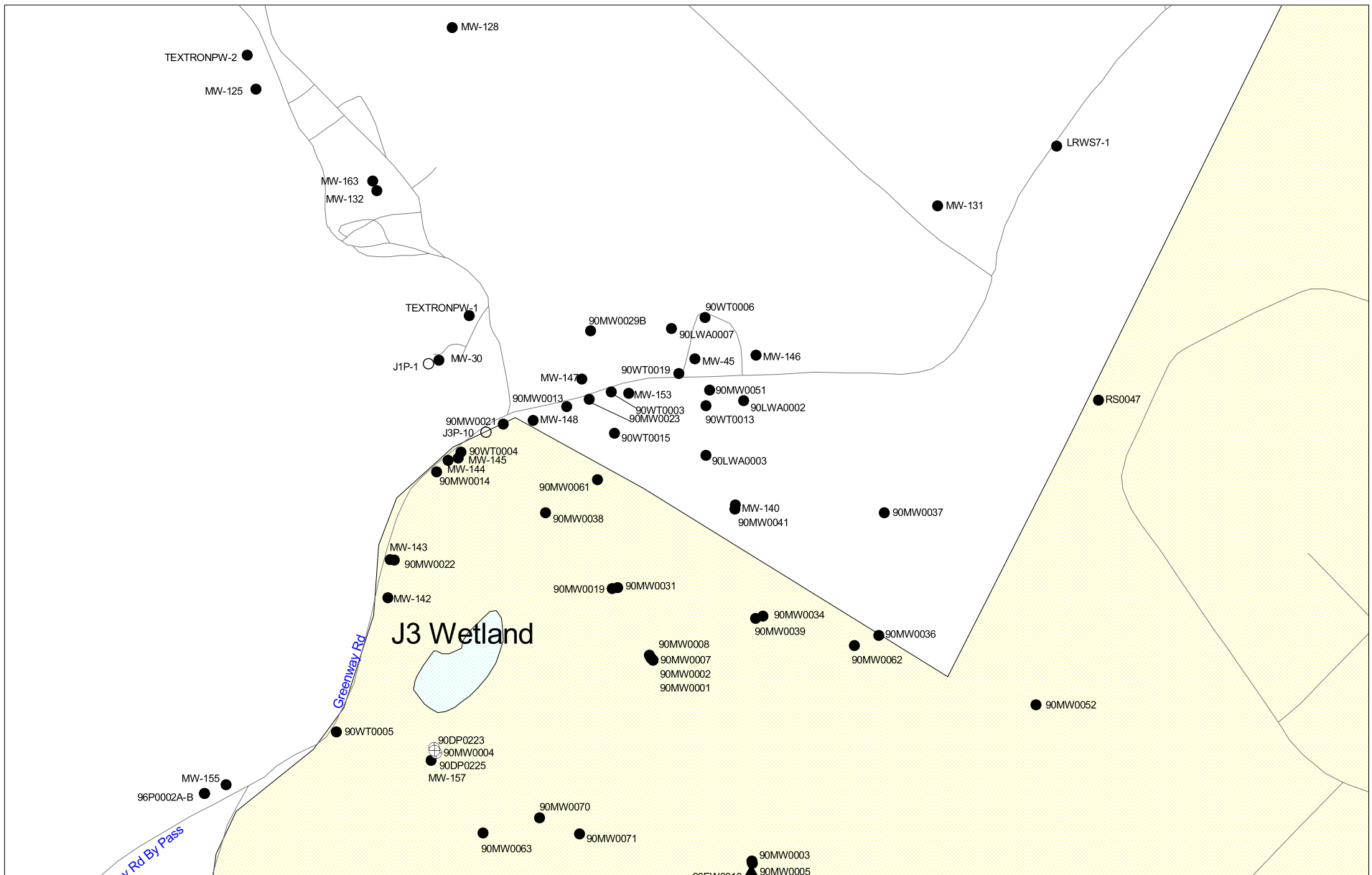
Groundwater Wells at MMR





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