

**WEEKLY PROGRESS UPDATE
FOR FEBRUARY 18 – FEBRUARY 22, 2002**

**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 February 18 to February 22, 2002.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of February 22 is summarized in Table 1.

Table 1. Drilling progress as of February 22, 2002				
Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-203	Central Impact Area (CIAP-20)	350	204	
MW-204	Central Impact Area (CIAP-22)	260	204	
MW-205	Central Impact Area (CIAP-16)	276	178	167-177; 266-276
bgs = below ground surface bwt = below water table				

Completed well installation of MW-205 (CIAP-16) and completed drilling of MW-203 (CIAP-20) and MW-204 (CIAP-22). Continued well development for newly installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-203 and MW-204. Groundwater sampling of preliminary rounds for recently installed J-3 Range and Central Impact Area wells continued. Water samples were collected from the GAC treatment system.

As part of the Munitions Survey Project, pre-detonation and post-detonation soil samples were collected from the J-1 Range and HUTA2 Transect 4.

The Guard, EPA, and MADEP had a meeting on February 21 to discuss technical issues, including the following:

Attendees

Dave Hill (IAGWSPO)	Karen Wilson (IAGWSPO)	Bill Gallagher (IAGWSPO)
Pam Richardson (IAGWSPO)	LTC Bill FitzPatrick (MAARNG)	Jane Dolan (EPA)
Mike Jasinski (EPA-phone)	Todd Borci (EPA-phone)	Mark Panni (MADEP)
Ed Wise (ACE)	Heather Sullivan (ACE)	Ellen Iorio (ACE)
Rob Foti (ACE)	Marc Grant (AMEC-phone)	Kim Hariz (AMEC)
Mark Applebee (AMEC)	John Rice (AMEC-phone)	Larry Hudgins (Tetra Tech)
Leo Montroy (Tetra Tech-phone)	Susan Stewart (Tetra Tech-phone)	Dave Williams (MDPH)
Joe Dauchy (Tetra Tech-phone)	Carla Buriks (Tetra Tech-phone)	Adam Balogh (TRC-phone)
Ken Gaynor (Jacobs)		

Punchlist Items

- #6 Provide approval of Guard's 01/17/02 letter proposal to discontinue routine Pesticide/PCB groundwater analyses (EPA). EPA response received.
- #16 Determine disposition of J-1 Polygon 1, 81mm mortars (Corps). Original 56, 81mm mortars were found to be inert. These mortars and an additional 1,041, 81mm mortars discovered in the burial areas, also determined to be inert, have been staged at the HUTA1 soil stockpile staging area. Also, sent to the staging area were 43, 105mm projectiles, unfuzed. Further identification and disposition of an additional 174, 81mm mortars with obscured lot numbers is pending. 111 adapter boosters and fuzes (quantity not identified) have been sent to the ASP. Three 81mm mortars and three 105mm projectiles to be BIPed.
- #17 Provide schedule for submitting remaining MSP3 Workplans (Corps). Schedule distributed by email. Ellen Iorio (Corps) summarized email. MSP3 Report comments were due 2/19; EPA to comment shortly. Site walk to be scheduled to visit sites 3/5 or 3/6. Corps would like to schedule 3 separate scoping meetings to address subsets of MSP3 sites (3/7, 3/14, 4/10). Figures and reconnaissance descriptions to be forwarded to agencies 2 or 3 days before scoping meetings.

Munitions Survey Project Update

Rob Foti (Corps) provided an update on the MSP3 and HUTA tasks.

AirMag. Excavation of 16 of 17 approved anomalies has been completed. The 17th anomaly located at the KD Range is outstanding; backhoe needed for the excavation, possible 2/22. Table of findings were provided in the weekly email. Additional work is on hold until Workplan comments provided in Jane Dolan's (EPA) email are resolved. Resolution of comments to be discussed by conference call on 02/27.

HUTA2. Intrusive activity was conducted for one day at Transect 4. More activity at Transect 4 possible 2/22 and next week. Intrusive work to be continued at Transects 2&3 on 3/4.

J Range Polygons. Excavation of J-1 Range Polygon 1 continues. Still finding materials at six feet in 2nd burial area and one additional anomaly still needs to be investigated in this polygon. Therefore, activities at Polygon 1 will likely continue next week. Investigations will be terminated at the polygon boundary unless materials are identified in the sidewalls of the excavations.

- Jane Dolan (EPA) requested that a date for work to proceed on the new (un-contracted) J Range Polygons be provided. Corps to provide date in 2 weeks.

Eastern MSP. Continue grubbing of area, next step will be surface avoidance.

Scar Site. Minor grubbing is being conducted this week to allow access to surveyors.

General MSP3 Scope. Reconnaissance of Ox Pond, N Range and Barrage Rocket Site/Hillside at J-3 Range commenced. Reconnaissance data to be provided on 3/4.

Follow-up Actions.

- Provide date for additional J Range Polygon investigations in 2 weeks.

ASR Witness Update

- Redacted summary of follow-up interview with Witness #30 distributed. Copies with witness names distributed to EPA. Interview to be sent to Todd Borci by email.
- Add to Punchlist, any outstanding interviews (possibly Witness #32) to be distributed next week.
- Jane Dolan (EPA) requested that a meeting be arranged to discuss how many more interviews are needed. Added as an agenda item next week.
- EPA's email of additional questions for interviews to be forwarded to Linda Danes (Tetra Tech).

Central Impact Area Wells Update

Heather Sullivan (Corps) described the status of well installations in the Central Impact Area.

- Screen selection was completed for CIAP-16 (MW-205) on 2/20. Screen selection for CIAP-20 (MW-203) and CIAP-22 (MW-204) likely next week.
- The next wells scheduled for installation are CIAP-18, CIAP-19, and CIAP-21.
- ROAs for CIAP-11, CIAP-12 were approved, conditional upon the gravel road for CIAP-12 being removed within 60 days. This will make groundwater sampling at this well difficult, as it is 700 feet off of a roadway, but AMEC will persevere.
- Discussion on location for CIAP-23 to be conducted at next week's Tech meeting. Based on the detection of explosives in CIAP-16, Bill Gallagher (IAGWSPO) recommended that the well be moved east of its currently scoped location.
- AMEC to notify Ken Gaynor (Jacobs) of sampling schedules for CIAP-8 (MW-200) and CIAP-10 (MW-201) so that Jacobs can collect splits.
- The Guard is sending a letter regarding the general fieldwork schedule to the agencies.

Bourne Wells Contributing Area Maps

Plan view maps of contributing areas for Bourne Supply wells (2000 and 2020 pumping rates) were distributed. These also show particle tracks from MW-84M1 and MW-80M1 (Figures 1 and 3) and MW-84D (Figure 2 and 4). The maps are intended to show that particles from these monitoring wells are variously captured/not captured in the supply wells, depending on conditions. However, this is difficult to convey in plan view and cross-sectional views cannot be produced.

- Bill Gallagher (IAGWSPO) indicated that these maps were to support the IART presentation if needed. The Guard was soliciting agency comments on the maps in case they would be used in that context. Comments should be forwarded ASAP.
- Mike Jasinski (EPA) indicated that because no cross-sections could be provided for the contribution areas, the maps could be a little confusing and should only be used if necessary. Todd Borci (EPA) emphasized that testing of the supply wells is being conducted, so we know there is no impact to the Bourne supply wells. The modeling, although useful, has not been relied upon to demonstrate this.
- Marc Grant (AMEC) suggested that the modeling information be shared with the Bourne Water District. Mark Panni requested that the information be forwarded to Larry Dayian (Chief, Water Supply, MADEP).
- Leo Yuskus (Haley and Ward), on behalf of the Bourne Water Supply District, sent a letter to the Guard requesting sampling of additional district wells. Well construction information and a map of the wells were included with the request. A hard copy of the letter, well construction information, and map to be provided to Jane Dolan.
- The Guard will likely agree to this sampling; this information to be added to "Next Steps" slide in February IART Presentation C.
- Results from Water Supply well sampling are due today; submission of results to be added as a Punchlist item.
- Press release to be sent tomorrow regarding detections in Far Field Wells. Comments on press release to be sent to Pam Richardson (IAGWSPO) by 3pm today. If the comments can't be resolved, the press release will not go out.

MW-187 Resampling Update

- Analytical results from MW-187 resampling were distributed 2/20. These results were consistent with previous results. Results provided in hard copy to Ken Gaynor (Jacobs), also AMEC to email.
- MW-187 was drilled to bedrock at 320 ft bgs. No till was encountered. The well screen was set in gravel from 306-316 ft bgs.

- John Rice (AMEC) suggested that CIAP-11, located on the particle track from MW-187 be drilled to bedrock (probably 250 feet bwt), currently it is scoped to 200 ft bwt. Bill Gallagher concurred.
- Todd Borci (EPA) suggested that all proposed wells downgradient of this well and all proposed J-1/J-3/L Range proposed wells be drilled to bedrock. John Rice indicated that SE Corner of the Ranges proposed wells are already scoped to 250 feet bwt, and bedrock should be shallower than this at these ranges. This request to be discussed at Tech meeting 2/28.
- Heather Sullivan (Corps) to check on status of finger-printing results for MW-187.

Schedule and Documents

Marc Grant (AMEC) reviewed the document and schedule status. Important outstanding items were addressed as follows:

Extension Requests

Demo 1 Soil FSSR (TM 01-12) and Gun and Mortar Report (TM 01-14) – Per EPA's suggestion, letter from Guard to be drafted requesting that enforceable milestones for these reports be placed on hold pending CRM for Demo 1 Soil Report and follow through from G/M Additional Characterization Workplan, respectively.

Documents Having Comments

RRA1 Completion of Work Report – Jane Dolan to send MOR approval letter today.

MSP2 Demo 1, ASP Geophysics, Former K, Former A Letter Reports. – Comments on MOR to be provided by 2/28.

MSP2 Slit Trench Letter Report. – Revised MOR provided on 2/13. EPA to try to provide approval next week.

Documents Needing Comments

Training Areas FSP – There is an April 1 enforceable milestone to start work. This date cannot be met because comments on FSP have not been received. No indication on when to be provided by EPA

HUTA Report – EPA comments should be forwarded next week.

Lab Fate & Transport Study – EPA comments to be provided shortly, however not a critical path.

UXO Interim Screening Report – Comments from both agencies likely by 3/01.

- Mike Jasinski (EPA) requested that a list of documents with enforceable milestones for 2002 (dates to be included with list) be provided. Marc Grant to provide.

Miscellaneous

- Jane Dolan requested status update on MW-181 alpha spectroscopy analyses. Heather Sullivan to check on status.
- Jane Dolan requested status of USGS Snake Pond Report, to be added as punchlist item. Dave Hill (IAGWSPO) to check.

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, as well as any analyses pursuant to a special request. 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 explosive 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 samples from Bourne sentry wells 97-1, 97-2, and 97-5 had detections of perchlorate. This is the first time perchlorate has been detected in these wells.
- Groundwater samples from MW-197M2 (J-3 Range) had a detection of HMX that was confirmed by PDA spectra. This is the first time this well has been sampled and these first round results were consistent with the groundwater profile results.
- Groundwater samples from MW-197M3 (J-3 Range) had detections of RDX and HMX that were confirmed by PDA spectra. This is the first time this well has been sampled and these first round results were consistent with the groundwater profile results.
- Groundwater profile samples from MW-203 (CIAP-20) had detections of 2,6-DNT (1 interval), RDX (3 intervals), nitroglycerin (3 intervals) and picric acid (3 intervals). Two detections of RDX were confirmed by PDA spectra. The detection of 2,6-DNT was confirmed by PDA spectra, but with interference. Two detections of nitroglycerin were not confirmed by PDA spectra, but with interference.
- Groundwater profile samples from MW-204 (CIAP22) had detections of 2,6-DNT (2 intervals), nitroglycerin (1 interval), 4-nitrotoluene (2 intervals), PETN (1 interval), RDX (7 intervals), HMX (1 interval), and picric acid (2 intervals). Five detections of RDX and the detection of HMX were confirmed by PDA spectra. The detections of 2,6-DNT were confirmed by PDA spectra, but with interference.

3. DELIVERABLES SUBMITTED

Draft Gun and Mortar Firing Positions Additional Characterization Workplan	02/20/02
Final Field Sampling Plan for Remaining Central Impact Area Firing Positions	02/22/02
Weekly Progress Update for February 11 – February 15, 2002	02/22/02

4. SCHEDULED ACTIONS

Scheduled actions for the week of February 25 include complete well installation of MW-203 (CIAP-20) and MW-204 (CIAP-22), commence drilling of CIAP-19 (MW-206), CIAP-18 (MW-207) and CIAP-21 (MW-208), and resample Bourne sentry wells.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Additional delineation of the downgradient portion of the groundwater plume will be conducted prior to finalizing the Feasibility Study for the Groundwater Operable Unit. Proposed monitoring well locations have been scoped by the Guard and approved by the agencies for delineation of the groundwater plume. Road building for the first proposed monitoring well, D1P-9

commenced last week. Subsequent locations have been proposed and the next location will be selected and approved based on the profile results at D1P-9. Response to comments letters were submitted for the Draft Final Demo 1 Soil Report and the Post-Screening Investigation Work Plan on February 15, 2002.

TABLE 2
 SAMPLING PROGRESS
 02/16/2002 - 02/22/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
J1.A.T1.006.1.0	J1.T1.006.R	02/21/2002	CRATER GRID	1.75	2.00		
J1.A.T1.006.4.0	J1.T1.006.R	02/22/2002	CRATER GRID	1.75	2.00		
J1.A.T1.007.1.0	J1.T1.007.R	02/21/2002	CRATER GRID	1.50	1.75		
J1.A.T1.007.4.0	J1.T1.007.R	02/22/2002	CRATER GRID	1.50	1.75		
J1.A.T1.008.1.0	J1.T1.008.R	02/21/2002	CRATER GRID	4.00	4.25		
J1.A.T1.008.4.0	J1.T1.008.R	02/22/2002	CRATER GRID	4.00	4.25		
J1.A.T1.009.1.0	J1.T1.009.R	02/21/2002	CRATER GRID	1.00	1.25		
J1.A.T1.009.4.0	J1.T1.009.R	02/22/2002	CRATER GRID	1.00	1.25		
J1.A.T1.010.1.0	J1.T1.010.R	02/21/2002	CRATER GRID	1.50	1.75		
J1.A.T1.010.4.0	J1.T1.010.R	02/22/2002	CRATER GRID	1.50	1.75		
J1.A.T1.011.1.0	J1.T1.011.R	02/21/2002	CRATER GRID	0.00	0.25		
J1.A.T1.011.4.0	J1.T1.011.R	02/22/2002	CRATER GRID	0.00	0.25		
T4.A.0U.005.1.0	T4.0U.005.R	02/21/2002	CRATER GRID	0.25	0.50		
T4.A.0U.005.2.0	T4.0U.005.R	02/22/2002	CRATER GRID	2.00	2.25		
T4.A.0U.005.3.0	T4.0U.005.R	02/22/2002	CRATER GRID	2.00	2.25		
T4.A.0U.005.3.D	T4.0U.005.R	02/22/2002	CRATER GRID	2.00	2.25		
T4.A.0V.002.1.0	T4.0V.002.R	02/21/2002	CRATER GRID	0.50	0.75		
T4.A.0V.002.2.0	T4.0V.002.R	02/22/2002	CRATER GRID	1.75	2.00		
T4.A.0V.002.3.0	T4.0V.002.R	02/22/2002	CRATER GRID	1.75	2.00		
T4.A.0Z.003.1.0	T4.0Z.003.R	02/21/2002	CRATER GRID	0.00	0.25		
T4.A.0Z.003.2.0	T4.0Z.003.R	02/22/2002	CRATER GRID	2.00	2.25		
T4.A.0Z.003.3.0	T4.0Z.003.R	02/22/2002	CRATER GRID	2.00	2.25		
G204DPE	FIELDQC	02/19/2002	FIELDQC	0.00	0.00		
G204DUE	FIELDQC	02/20/2002	FIELDQC	0.00	0.00		
W149SST	FIELDQC	02/22/2002	FIELDQC	0.00	0.00		
W193M1T	FIELDQC	02/20/2002	FIELDQC	0.00	0.00		
W198M2E	FIELDQC	02/19/2002	FIELDQC	0.00	0.00		
W198M2F	FIELDQC	02/19/2002	FIELDQC	0.00	0.00		
W198M2FT	FIELDQC	02/19/2002	FIELDQC	0.00	0.00		
W198M4E	FIELDQC	02/21/2002	FIELDQC	0.00	0.00		
W198M4T	FIELDQC	02/21/2002	FIELDQC	0.00	0.00		
W115M1A	MW-115	02/20/2002	GROUNDWATER	138.00	148.00	22.00	32.00
W149SSA	MW-149	02/22/2002	GROUNDWATER	105.00	115.00	4.00	14.00
W159SSA	MW-159	02/22/2002	GROUNDWATER	126.00	136.00	1.00	11.00
W193M1A	MW-193	02/20/2002	GROUNDWATER	57.00	62.00	23.80	28.80
W193M1D	MW-193	02/20/2002	GROUNDWATER	57.00	62.00	23.80	28.80
W198M2A	MW-198	02/19/2002	GROUNDWATER	120.00	125.00	98.40	103.40
W198M4A	MW-198	02/21/2002	GROUNDWATER	70.00	75.00	48.40	53.40
W200M1A	MW-200	02/21/2002	GROUNDWATER	294.00	304.00	91.30	101.30
W200M2A	MW-200	02/21/2002	GROUNDWATER	255.00	265.00	52.20	62.20
DW022102	GAC WATER	02/21/2002	IDW	0.00	0.00		
DW022202	GAC WATER	02/22/2002	IDW	0.00	0.00		
G203DLA	MW-203	02/19/2002	PROFILE	260.00	260.00	114.00	114.00

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
 02/16/2002 - 02/22/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G203DNA	MW-203	02/19/2002	PROFILE	280.00	280.00	134.00	134.00
G203DOA	MW-203	02/19/2002	PROFILE	290.00	290.00	144.00	144.00
G203DPA	MW-203	02/19/2002	PROFILE	300.00	300.00	154.00	154.00
G203DQA	MW-203	02/20/2002	PROFILE	310.00	310.00	164.00	164.00
G203DRA	MW-203	02/20/2002	PROFILE	320.00	320.00	174.00	174.00
G203DSA	MW-203	02/20/2002	PROFILE	330.00	330.00	184.00	184.00
G203DTA	MW-203	02/20/2002	PROFILE	340.00	340.00	194.00	194.00
G203DUA	MW-203	02/20/2002	PROFILE	350.00	350.00	204.00	204.00
G204DIA	MW-204	02/19/2002	PROFILE	140.00	140.00	83.70	83.70
G204DJA	MW-204	02/19/2002	PROFILE	150.00	150.00	93.70	93.70
G204DKA	MW-204	02/19/2002	PROFILE	160.00	160.00	103.70	103.70
G204DLA	MW-204	02/19/2002	PROFILE	170.00	170.00	113.70	113.70
G204DMA	MW-204	02/19/2002	PROFILE	180.00	180.00	123.70	123.70
G204DNA	MW-204	02/19/2002	PROFILE	190.00	190.00	133.70	133.70
G204DOA	MW-204	02/19/2002	PROFILE	200.00	200.00	143.70	143.70
G204DPA	MW-204	02/19/2002	PROFILE	210.00	210.00	153.70	153.70
G204DQA	MW-204	02/20/2002	PROFILE	220.00	220.00	163.70	163.70
G204DRA	MW-204	02/20/2002	PROFILE	230.00	230.00	173.70	173.70
G204DSA	MW-204	02/20/2002	PROFILE	240.00	240.00	183.70	183.70
G204DTA	MW-204	02/20/2002	PROFILE	250.00	250.00	193.70	193.70
G204DUA	MW-204	02/20/2002	PROFILE	260.00	260.00	203.70	203.70

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 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 02/02/02 - 02/22/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
97-1	97-1	02/11/2002	GROUNDWATER	83.00	93.00	62.00	72.00	E314.0	PERCHLORATE	
97-2	97-2	02/12/2002	GROUNDWATER	75.00	85.00	53.00	63.00	E314.0	PERCHLORATE	
97-5	97-5	02/12/2002	GROUNDWATER	84.00	94.00	76.00	86.00	E314.0	PERCHLORATE	
W197M2A	MW-197	02/11/2002	GROUNDWATER	80.00	85.00	59.30	64.30	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5	YES
W197M3A	MW-197	02/12/2002	GROUNDWATER	60.00	65.00	39.40	44.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
W197M3A	MW-197	02/12/2002	GROUNDWATER	60.00	65.00	39.40	44.40	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5	YES
G203DAA	MW-203	02/14/2002	PROFILE	150.00	150.00	4.00	4.00	8330N	PICRIC ACID	NO
G203DBA	MW-203	02/14/2002	PROFILE	160.00	160.00	14.00	14.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	NO
G203DBA	MW-203	02/14/2002	PROFILE	160.00	160.00	14.00	14.00	8330N	NITROGLYCERIN	NO*
G203DBA	MW-203	02/14/2002	PROFILE	160.00	160.00	14.00	14.00	8330N	PICRIC ACID	NO
G203DCA	MW-203	02/14/2002	PROFILE	170.00	170.00	24.00	24.00	8330N	NITROGLYCERIN	NO*
G203DDA	MW-203	02/14/2002	PROFILE	180.00	180.00	34.00	34.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
G203DEA	MW-203	02/14/2002	PROFILE	190.00	190.00	44.00	44.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
G203DIA	MW-203	02/15/2002	PROFILE	230.00	230.00	84.00	84.00	8330N	2,6-DINITROTOLUENE	YES*
G203DIA	MW-203	02/15/2002	PROFILE	230.00	230.00	84.00	84.00	8330N	NITROGLYCERIN	NO
G203DIA	MW-203	02/15/2002	PROFILE	230.00	230.00	84.00	84.00	8330N	PICRIC ACID	NO
G204DAA	MW-204	02/14/2002	PROFILE	60.00	60.00	3.70	3.70	8330N	2,6-DINITROTOLUENE	YES*
G204DAA	MW-204	02/14/2002	PROFILE	60.00	60.00	3.70	3.70	8330N	4-NITROTOLUENE	NO
G204DAA	MW-204	02/14/2002	PROFILE	60.00	60.00	3.70	3.70	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	NO
G204DAA	MW-204	02/14/2002	PROFILE	60.00	60.00	3.70	3.70	8330N	NITROGLYCERIN	NO
G204DAA	MW-204	02/14/2002	PROFILE	60.00	60.00	3.70	3.70	8330N	PENTAERYTHRITOL TETRANITRO-1,3,5,7	NO
G204DAA	MW-204	02/14/2002	PROFILE	60.00	60.00	3.70	3.70	8330N	PICRIC ACID	NO
G204DBA	MW-204	02/14/2002	PROFILE	70.00	70.00	13.70	13.70	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	NO
G204DBA	MW-204	02/14/2002	PROFILE	70.00	70.00	13.70	13.70	8330N	PICRIC ACID	NO
G204DCA	MW-204	02/15/2002	PROFILE	80.00	80.00	23.70	23.70	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
G204DDA	MW-204	02/15/2002	PROFILE	90.00	90.00	33.70	33.70	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
G204DDA	MW-204	02/15/2002	PROFILE	90.00	90.00	33.70	33.70	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
G204DEA	MW-204	02/15/2002	PROFILE	100.00	100.00	43.70	43.70	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
G204DIA	MW-204	02/19/2002	PROFILE	140.00	140.00	83.70	83.70	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
G204DJA	MW-204	02/19/2002	PROFILE	150.00	150.00	93.70	93.70	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	YES
G204DMA	MW-204	02/19/2002	PROFILE	180.00	180.00	123.70	123.70	8330N	2,6-DINITROTOLUENE	YES*

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.

SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS

SED = SAMPLE COLLECTION END DEPTH IN FEET BGS

BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET

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

PDA/YES = Photo Diode Array, Detect Confirmed

PDA/NO = Photo Diode Array, Detect Not Confirmed

* = Interference in sample

TABLE 3
 DETECTED COMPOUNDS-UNVALIDATED
 SAMPLES COLLECTED 02/02/02 - 02/22/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G204DMA	MW-204	02/19/2002	PROFILE	180.00	180.00	123.70	123.70	8330N	4-NITROTOLUENE	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

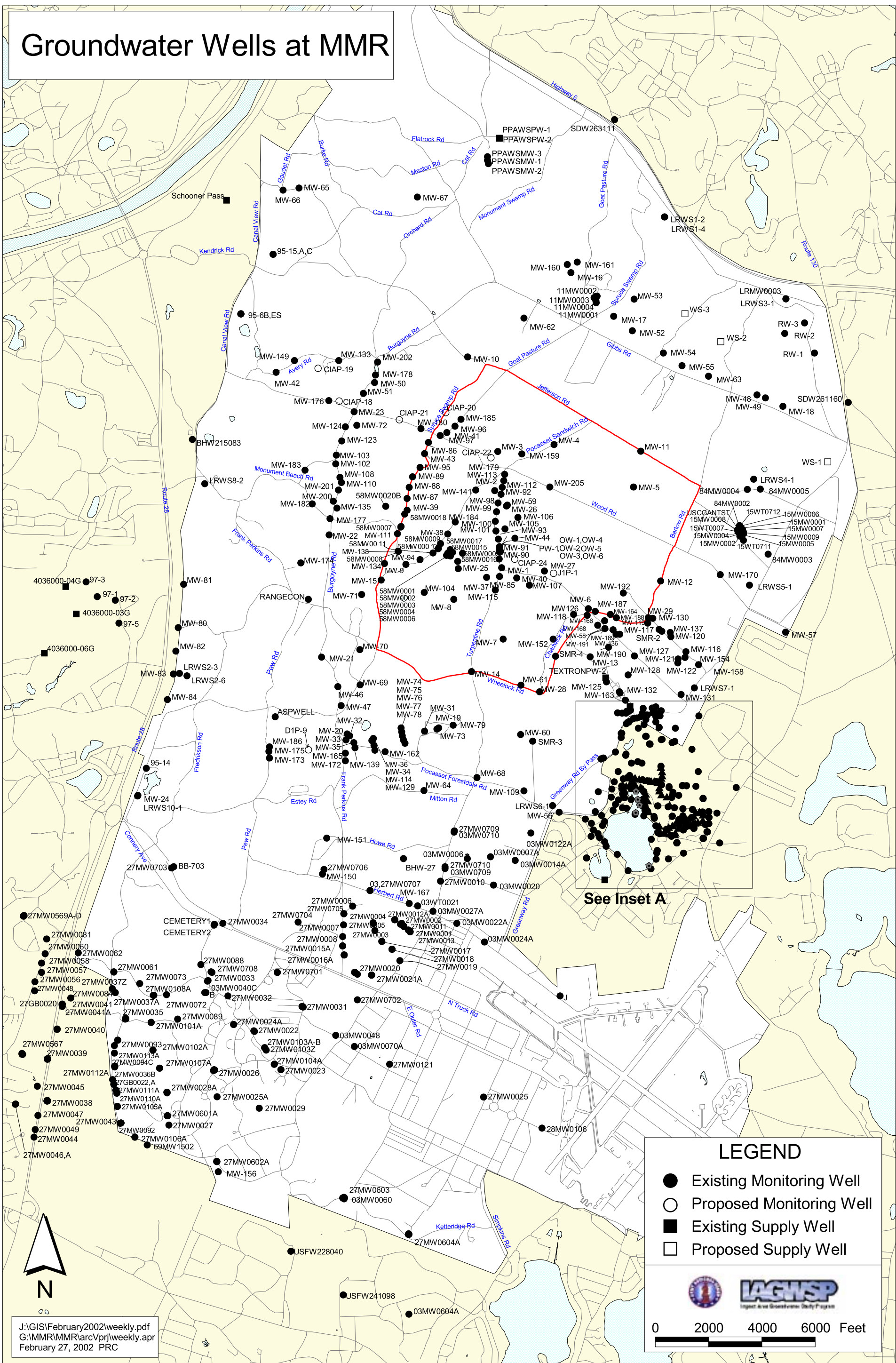
BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET

PDA/YES = Photo Diode Array, Detect Confirmed

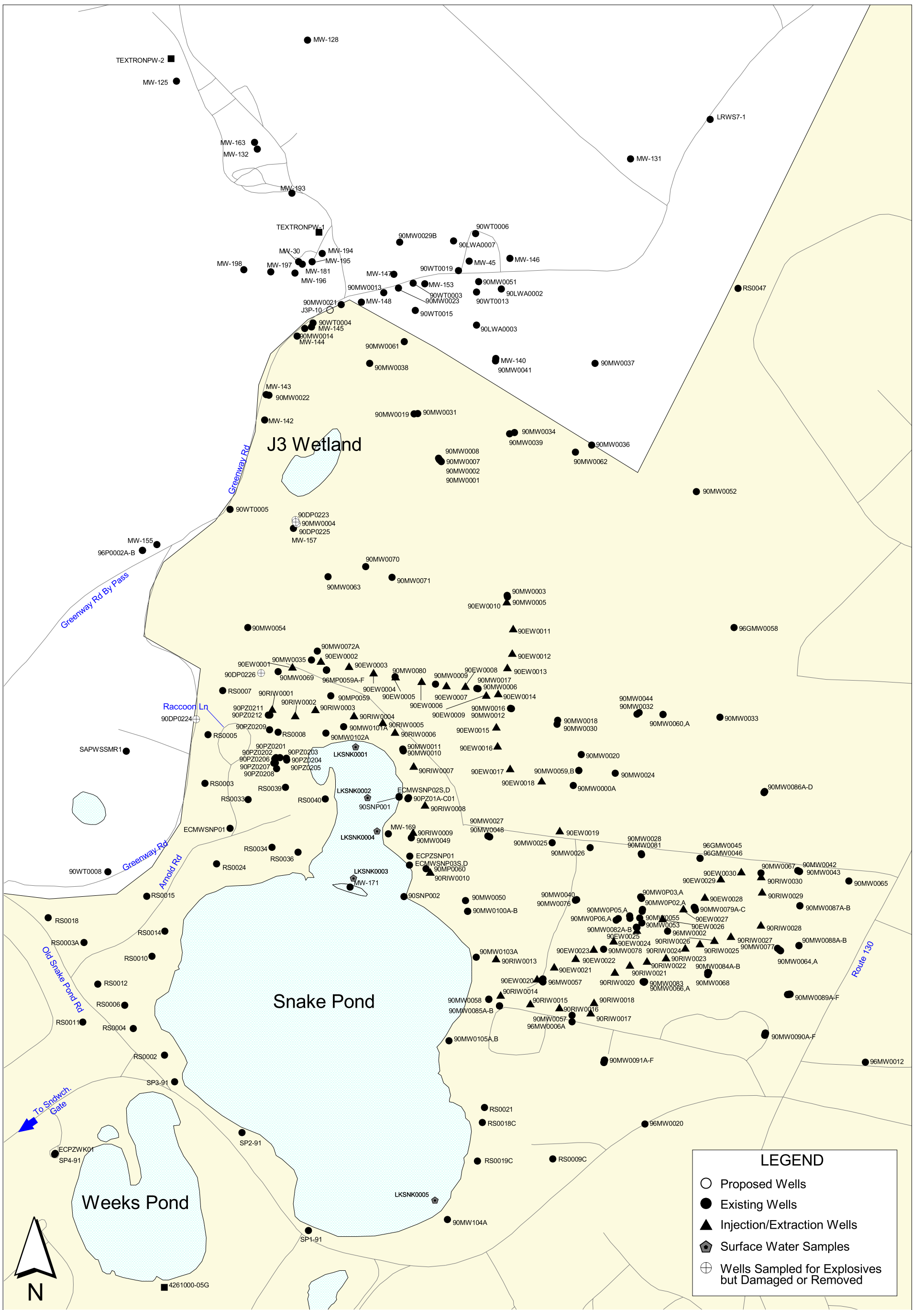
PDA/NO = Photo Diode Array, Detect Not Confirmed

* = Interference in sample

Groundwater Wells at MMR



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G:\MMR\MMR\arc\prj\weekly.apr
February 27, 2002 PRC



LEGEND

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

0 600 1200 Feet

Inset A

