**WEEKLY PROGRESS UPDATE**
**FOR OCTOBER 8 – OCTOBER 12, 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 October 8 to October 12, 2001.

## 1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of October 12 is summarized in Table 1.

**Table 1. Drilling progress as of October 12, 2001**

| Boring Number | Purpose of Boring/Well | Total Depth (ft bgs) | Saturated Depth (ft bwt) | Completed Well Screens (ft bgs) |
|---|---|---|---|---|
| MW-183 | Central Impact Area Well (CIAP-4) | 385 | 204 | 286-296 |
| MW-183 | Central Impact Area Well (CIAP-4) redrill | 225 | 44 | |
| MW-184 | Central Impact Area Well (P-30) | 350 | 225 | 126-136, 186-196 |
| MW-185 | Central Impact Area Well (CIAP-5) | 290 | 158 | |
| B-30 | J-2 Range Boring (J2P-11) | 95 | 4 | |

Bgs = below ground surface
Bwt = below water table

Completed well installation of MW-184 (P-30), completed drilling of B-30 (J2P-11) and continued drilling of MW-185 (CIAP-5). Due to a broken casing as MW-183 was installed, only one well screen in MW-183 (CIAP-4) was installed, and commenced redrilling this well. Well development was continued for newly installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-185 (CIAP-5) and B-30 (J2P-11). Groundwater samples were collected as part of the August Long Term Groundwater Monitoring round. Soil samples were collected from grids on J-3 Range and from post-detonation craters. Water samples were collected from the RRA containment pad and the GAC system.

The Guard, EPA, and MADEP had a meeting on October 11 to discuss technical issues, including the following:

**Attendees**

| | | |
|---|---|---|
| Ben Gregson (IAGWSPO) | CPT Bill Meyer (IAGWSPO) | Karen Wilson (IAGWSPO) |
| Tina Dolen (IAGWSPO) | LTC Bill FitzPatrick (MAARNG) | Todd Borci (EPA-phone) |
| Mike Jasinski (EPA) | Jane Dolan (EPA) | Desiree Moyer (EPA) |
| Len Pinaud (MADEP) | Gina Tyo (ACE) | Heather Sullivan (ACE) |
| John McPherson (ACE) | Ellen Iorio (ACE) | Ed Wise (ACE) |

Marc Grant (AMEC)
Scott Veenstra (AMEC – phone)
Larry Hudgins (Tetra Tech)
Dave Williams (MDPH)
Ken Gaynor (Jacobs)
Rob Clemens (AMEC)
Herb Colby (AMEC)
Doug Lam (Tetra Tech)
Adam Balogh (TRC)
Jay Clausen (AMEC-phone)
Kim Harriz (AMEC)
Joe Dauchy (Tetra Tech)
Don Walter (USGS)

**RAD Survey Protocol**

- EPA requested that the protocol be discussed in a meeting/conference call next week with Resolution of DU comments.
- Jane Dolan (EPA) asked what was the specific instrument that would be used for monitoring. Larry Hudgins (Tetra Tech) indicated it was the instrument that they had in the field office that was used to detect low energy alpha, beta, and gamma rays. The instrument was a Victoreen; Mr. Hudgins to check on model number.
- Ms. Dolan asked what was the source of the checklist in the protocol. Mr. Hudgins indicated that the source was experience and the manual.
- Regarding the DU Comment Resolution meeting, Ellen Iorio (ACE) indicated that a comment response would be forwarded to the agencies by the end of the week. The Resolution meeting could be held next week with discussion of RAD protocol.

**HUTA 2 Scope**

- Ellen Iorio (ACE) indicated that the Corps would be providing a brief synopsis on agreements made during last week's meeting regarding the HUTA scope. HUTA2 transect maps would be provided in hard copy today. The Guard/ACE was looking for approval from DEP/EPA to proceed. Feedback on HUTA2 maps was requested ASAP. Copies of the maps would be emailed to Todd Borci (EPA).
- Jane Dolan (EPA) inquired about the age of the photograph used for the transect maps. Joe Dauchy (Tetra Tech) thought it was from 1975, but will confirm. Punchlist item to be set for approval.

**Demo Area 2**

- Todd Borci (EPA) indicated that he had not seen digmaps for Demo 2 validation.
- Gina Tyo (ACE) indicated that 12 anomalies had already been validated. Failure to provide digmaps/notification to the agencies had been the Corps' disconnect. The Corps would make adjustments as needed. In the interim, Tetra Tech was continuing to verify the remaining 13 anomalies.
- Larry Hudgins (Tetra Tech) indicated that to date no UXO-related material had been uncovered. All materials were scrap.
- Mr. Borci indicated that the validation could proceed, but if fieldwork is conducted again without the EPA's concurrence, the contractors will be asked to stop work.
- Mr. Borci asked if the lower branches had been trimmed, but the vegetation left intact in the areas at Demo 2 that they had discussed. And if the areas that weren't covered were indicated on the map. Mr. Hudgins indicated yes.
- Jane Dolan (EPA) asked what was the seeded item (added to survey area for QA/QC purposes) that wasn't detected. Mr. Hudgins indicated that it was a pipe; all seeded items were pipes buried at various depths.
- Ms. Dolan requested a table showing the various thresholds that were used per area to select anomalies to validate.
- Mr. Borci requested that the latest scopes of work for the MSP projects be faxed or emailed to his attention.

- Mr. Borci asked if any work was being performed related to verification of the AirMag targets. Gina Tyo (ACE) indicated that Tetra Tech was groundtruthing cultural/geologic items. It was the Corps' understanding from the AirMag meeting that the agencies concurred with the need to verify certain cultural and geologic features, but that the EPA was also looking for some additional verification. The Corps assumed that verification of the agreed upon features could proceed. The Corps had intended this information to help further define the scope of the AirMag verification/validation and provide information (visual as well as historic) on what the cultural features are. Ms. Tyo had informed Ms. Dolan after the 10/04 Tech meeting that verification activities would be conducted the week of 10/08 and that additional verification targets were still being considered. The Corps assumed that the agencies and the Corps would reconvene regarding scoping the additional work.
- EPA indicated that it had been their assumption that the Corps would provide an anomaly/pick list at the 10/04 Tech meeting. And that verification would proceed only after the agencies had reviewed the list and commented. Mr. Borci pointed out that the EPA might have areas that they want verified that are near the areas that the Corps is already groundtruthing. Coordinating the groundtruthing effort would aide in streamlining the verification process.
- Ms. Iorio indicated that she had received the verification list only yesterday and could forward the list by next Friday. The list Tetra Tech is currently working off of is the same as the list from Tetra Tech's presentation. Ms. Iorio suggested that AirMag verification, HUTA2 and MSP scopes of work be discussed/approved in a breakout session after the 10/25 Tech meeting.

**Former H Range**

Ellen Iorio (ACE) provided a brief overview of work conducted/completed at the Former H Range.

- For the lead removal project, excavation has been completed. Erosion maps were prepared and the area had been hydroseeded. Analytical results were received and indicated that no further excavation was required. The project was complete except for moving the access road. Excavated soil classified as hazardous had been sent to Pennsylvania; non-hazardous soil had been sent to Bourne. A Completion of Work Report would be drafted and provided to the agencies.
- For the Military Features, these areas had been sampled; analytical results are pending.
- For groundwater monitoring, monitoring wells were installed and sampled; analytical results are pending.
- The Corps owes the agency a WorkPlan that will provide well details and method detection limits. The plan will be fedexed to the agencies by mid next week. The Ordnance and Explosive Work Plan will be sent next Friday, 10/19.

**SE Ranges Plume Maps**

Herb Colby (AMEC) indicated that the following changes had been made to the plume maps and additional changes were to be discussed at this meeting mostly to resolve discrepancies among various comments on the original maps. The majority had agreed upon the changes indicated below:

- added particle tracks with the extraction system on.
- added for "Internal Discussion Purposes Only" on maps.
- added plume overlay to the aerial photograph.
- made minor changes to plume shape based on particle tracks.
- added identification information requested.
- made detection of RDX at MW-130, a singular dot.
- 90WT0013 area changed from 2-10 ug/L to ND-2 ug/L.
- labeled proposed wells.

- Heather Sullivan (ACE) stated that the Guard/ACE's preference was that the plume boundaries be narrowed to reflect only the exact areas where contaminants had been detected. In addition, they would prefer one set of maps (not separate scoping and IART maps) so that the IART would also be able to see/participate in the progress/process of scoping of the wells. The Guard/ACE generally agreed with Len Pinaud's (MADEP) written comments and would prefer to revise the plume maps accordingly.
- Herb Colby (AMEC) pointed out that the Perchlorate map in particular was a "stretch" since it was based largely on three detects separated by some distance. This plume emphasized the relatively high hits at MW-163 and MW-132 and took into account the HMX and RDX plumes, since in other areas on base the perchlorate distribution mirrored the distribution of these explosives.
- COL Bleakley (JPO) concurred that he preferred a more conservative approach, conservative meaning narrower plumes more confined by actual detections. Based on his experience with the IRP program, the public was more accepting of starting the plumes small and growing them based on additional detections. It seemed difficult for the public to accept larger plumes that were narrowed by artistic/scientific license without the aide of an extraction system. Furthermore, JPO's combined plume maps that are based on stricter guidelines would look quite different than the IAGWSP plume maps as now depicted.
- EPA concurred with dashing the > 2 ppb contour centered on MW-132 and MW-172 and moving the end of the >2ppb plume more north. But still preferred the broader plumes.
- COL Bleakley further pointed out that it would be good to use yellow versus red dots to distinguish between detections above the HA such as those used on the Monthly maps rather than all red dots. Tina Dolen (IAGWSPO) concurred with this suggestion since it would allow for consistency of presentation to the public. Marc Grant (AMEC) pointed out that the IART maps do not distinguish between detections above HAs, all detections are red dots. Dave Williams (MDPH) suggested that a table be added to the map that lists specific concentrations.
- COL Bleakley also suggested that detection at 90WT0013 be removed because only the one detection of RDX had been recorded for this well and that was in 1999. Plume maps should be used to depict current data, where plume is now.
- COL Bleakley indicated that the SMB had questions about the FS-12 extraction system, requesting that the extraction wells be added to the figure. Also it should be noted that not all groundwater within the outlined capture zone is captured since the capture zone is three dimensional, but the boundary shown on the maps only represents the extent of the capture zone at the top of the water table. Marc Grant (AMEC) pointed out that particle tracks showed what detections would be captured.

- Mike Jasinski (EPA) stated that it was obvious there still was not concurrence on how the plume maps should be drawn so the maps would obviously not be ready for the next IART meeting. Maps should be presented at the December IART. Ed Wise (ACE) asked if the analytical results would be available from the proposed J Range wells by that time. Mr. Colby said possibly; John Rice (AMEC) pointed out that the drilling schedule was set but tentative.
- Ms. Dolan thought that the meeting today would include discussion of additional wells to define plumes. Ms. Sullivan indicated that the Corps understood that additional wells would be proposed in the EPA's comments on the J-1, J-3, L Range Report. Mr. Colby pointed out that it was the Guard's understanding that any additional wells would be included in the scope of Additional Delineation Work Plan #2. Ms. Dolan did not agree with this assumption. Mr. Rice pointed out that it was proving to be difficult to meet drilling schedules for the currently scoped wells because of overlapping of the exclusion zones for the UXO clearance of well pads and the drill pads ready to be set up upon. Ms. Dolan requested that AMEC propose additional wells for defining plume boundaries for discussion at the 10/18 Tech meeting.
- Ms. Sullivan stated that the AMEC would revise the plume maps to reflect a version that the Guard/Corps was more comfortable with. This would include taking 90MW0054 out of the RDX plume map, moving the >2 ppb contour up (north) on the RDX map, and taking a closer look at the perchlorate map. Plus the Corps hadn't felt comfortable about extending the L Range RDX plume further north as Ms. Dolan requested, based only on the backward particle tracks. Mr. Colby to provide revised plume maps tentatively by 10/18 Tech meeting.
- Ms. Dolan stated the she had emailed the J-1, J-3, L Range Report comments earlier today, 10/11.
- Todd Borci (EPA) indicated that Cleared Area 11, a Phase IIb site, had been moved to the J Ranges and that it needed to be addressed. Mr. Colby indicated that it was the Guard's intent to include the area within the scope of Additional Delineation Work Plan #2.

Breakout meetings after the Tech meeting included a J-2 Range scoping meeting. A site visit was scheduled for J-1 and J-2 Ranges.

## 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 samples from 27MW0017 had detections of 1,3-dinitrobenzene and nitroglycerin that were not confirmed by PDA. These compounds have never been valid detections in 27MW0017.

- Groundwater samples from MW-89M1 (Central Impact Area), MW-93M1 (Central Impact Area), MW-95M1, MW-95M2 (Central Impact Area), MW-135M2 (Central Impact Area), and MW-166M1 (J-1 Range) had detections of RDX that were confirmed by PDA. The detections of RDX are similar to the previous sampling rounds.

- Groundwater samples from MW-88M2 (Central Impact Area), MW-89M2 (Central Impact Area), MW-91M1 (Central Impact Area), MW-93M2 (Central Impact Area) and MW-166M2, MW-166M3 (J-1 Range) had detections of RDX and HMX that were confirmed by PDA. The detections of RDX and HMX are similar to the previous sampling rounds.

- Groundwater profile samples from MW-185 (Central Impact Area) had detections of 2,4-DANT (9 intervals), 2,4-DNT (10 intervals), 1,3-dinitrobenzene (6 intervals), 1,3,5-trinitrobenzene (5 intervals), nitroglycerin (9 intervals), picric acid (4 intervals), 2-nitrotoluene (1 interval), 3-nitrotoluene (1 interval) and 4-nitrotoluene (1 interval). Six of the 2,4-DNT detections were confirmed by PDA spectra.

## 3. DELIVERABLES SUBMITTED

| | |
|---|---|
| October 2001 Progress Report | 10/9/01 |
| Weekly Progress Report for October 1 – October 5, 2001 | 10/12/01 |

## 4. SCHEDULED ACTIONS

Scheduled actions for the week of October 8 include well installations of MW-183 (CIAP-4) and MW-185 (CIAP-5) and commence drilling CIAP-2 and OW-1 for the Central Impact Area pump test. Groundwater sampling will continue for the August LTM round. Soil samples will be collected from J-3 Range grids. Excavation of UXO detonation craters will continue.

## 5. SUMMARY OF ACTIVITIES FOR DEMO 1

An additional downgradient well location (D1P-8) on Pew Road will be drilled in the coming weeks. Analytical results from additional soil borings and geophysical anomalies validation efforts were evaluated and the Demo 1 Soil Report is being revised. Additional monitoring wells are being scoped to define the downgradient edge of the groundwater plume.

TABLE 2
SAMPLING PROGRESS
10/6/2001-10/12/2001



| OGDEN_ID | LOCID OR WELL ID | DATE SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|---|---|---|---|---|---|---|---|
| HDA09110101AA | A09110101 | 10/12/2001 | CRATER GRAB | 0.00 | 0.25 | | |
| HDA10020101AA | A10020101 | 10/12/2001 | CRATER GRAB | 0.00 | 0.25 | | |
| 95-15CE | FIELDQC | 10/08/2001 | FIELDQC | 0.00 | 0.00 | | |
| G185DAE | FIELDQC | 10/10/2001 | FIELDQC | 0.00 | 0.00 | | |
| G185DIE | FIELDQC | 10/11/2001 | FIELDQC | 0.00 | 0.00 | | |
| G185DLE | FIELDQC | 10/12/2001 | FIELDQC | 0.00 | 0.00 | | |
| HC102PB1AAE | FIELDQC | 10/11/2001 | FIELDQC | 0.00 | 0.00 | | |
| HC102VB1AAE | FIELDQC | 10/12/2001 | FIELDQC | 0.00 | 0.00 | | |
| HDA09110101AT | FIELDQC | 10/12/2001 | FIELDQC | 0.00 | 0.00 | | |
| W157M2T | FIELDQC | 10/09/2001 | FIELDQC | 0.00 | 0.00 | | |
| W161SST | FIELDQC | 10/08/2001 | FIELDQC | 0.00 | 0.00 | | |
| W163SST | FIELDQC | 10/10/2001 | FIELDQC | 0.00 | 0.00 | | |
| W69SST | FIELDQC | 10/11/2001 | FIELDQC | 0.00 | 0.00 | | |
| 90MW0034 | 90MW0034 | 10/08/2001 | GROUNDWATER | 94.00 | 99.00 | 28.57 | 33.57 |
| 95-15C | 95-15C | 10/08/2001 | GROUNDWATER | 147.00 | 157.00 | 78.16 | 88.16 |
| 95-15C | 95-15C | 10/08/2001 | GROUNDWATER | 147.00 | 157.00 | 78.16 | 88.16 |
| W07DDA | MW-07 | 10/10/2001 | GROUNDWATER | 332.00 | 342.00 | 223.00 | 233.00 |
| W102M1A | MW-102 | 10/12/2001 | GROUNDWATER | 267.00 | 277.00 | 121.10 | 131.10 |
| W103M1A | MW-103 | 10/08/2001 | GROUNDWATER | 298.00 | 308.00 | 153.60 | 163.60 |
| W103M2A | MW-103 | 10/08/2001 | GROUNDWATER | 282.00 | 292.00 | 137.60 | 147.60 |
| W104M1A | MW-104 | 10/10/2001 | GROUNDWATER | 155.00 | 165.00 | 34.60 | 44.60 |
| W104M2A | MW-104 | 10/10/2001 | GROUNDWATER | 135.00 | 145.00 | 14.50 | 24.50 |
| W107M1A | MW-107 | 10/10/2001 | GROUNDWATER | 155.00 | 165.00 | 33.30 | 43.30 |
| W114M2A | MW-114 | 10/10/2001 | GROUNDWATER | 120.00 | 130.00 | 37.50 | 47.50 |
| W114M2D | MW-114 | 10/10/2001 | GROUNDWATER | 120.00 | 130.00 | 37.50 | 47.50 |
| W120SSA | MW-120 | 10/10/2001 | GROUNDWATER | 103.00 | 113.00 | 0.00 | 10.00 |
| W122SSA | MW-122 | 10/10/2001 | GROUNDWATER | 88.00 | 98.00 | 0.00 | 10.00 |
| W130SSA | MW-130 | 10/11/2001 | GROUNDWATER | 103.00 | 113.00 | 0.00 | 10.00 |
| W132SSA | MW-132 | 10/10/2001 | GROUNDWATER | 37.00 | 47.00 | 0.00 | 10.00 |
| W134SSA | MW-134 | 10/11/2001 | GROUNDWATER | 133.00 | 143.00 | 0.00 | 10.00 |
| W138M1A | MW-38 | 10/09/2001 | GROUNDWATER | 235.00 | 263.00 | 111.80 | 121.80 |
| W138M2A | MW-38 | 10/09/2001 | GROUNDWATER | 151.00 | 161.00 | 28.20 | 38.20 |
| W138M2D | MW-38 | 10/09/2001 | GROUNDWATER | 151.00 | 161.00 | 28.20 | 38.20 |
| W138M3A | MW-38 | 10/09/2001 | GROUNDWATER | 135.00 | 145.00 | 12.10 | 22.10 |
| W157DDA | MW-157 | 10/08/2001 | GROUNDWATER | 209.00 | 219.00 | 199.00 | 209.00 |
| W157M1A | MW-157 | 10/08/2001 | GROUNDWATER | 154.00 | 164.00 | 144.00 | 154.00 |
| W157M2A | MW-157 | 10/08/2001 | GROUNDWATER | 110.00 | 120.00 | 96.50 | 106.50 |
| W157M2A | MW-157 | 10/10/2001 | GROUNDWATER | 110.00 | 120.00 | 96.50 | 106.50 |
| W157M2D | MW-157 | 10/10/2001 | GROUNDWATER | 110.00 | 120.00 | 96.50 | 106.50 |
| W160SSA | MW-160 | 10/08/2001 | GROUNDWATER | 137.50 | 147.50 | 5.00 | 15.00 |
| W161SSA | MW-161 | 10/08/2001 | GROUNDWATER | 145.50 | 155.50 | 6.00 | 16.00 |
| W163SSA | MW-163 | 10/10/2001 | GROUNDWATER | 38.00 | 48.00 | 0.00 | 10.00 |
| W69SSA | MW-69 | 10/11/2001 | GROUNDWATER | 110.00 | 120.00 | 0.00 | 10.00 |

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
10/6/2001-10/12/2001

| OGDEN_ID | LOCID OR WELL ID | DATE SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|---|---|---|---|---|---|---|---|
| W80M1A | MW-180 | 10/10/2001 | GROUNDWATER | 130.00 | 140.00 | 82.73 | 92.73 |
| W90M1A | MW-90 | 10/09/2001 | GROUNDWATER | 145.00 | 155.00 | 27.00 | 37.00 |
| W90SSA | MW-90 | 10/09/2001 | GROUNDWATER | 118.00 | 128.00 | 0.00 | 10.00 |
| W91SSA | MW-91 | 10/09/2001 | GROUNDWATER | 124.00 | 134.00 | 0.00 | 10.00 |
| W96SSA | MW-96 | 10/12/2001 | GROUNDWATER | 134.00 | 144.00 | 0.00 | 10.00 |
| W97M1A | MW-97 | 10/12/2001 | GROUNDWATER | 235.00 | 245.00 | 109.80 | 119.80 |
| WI161SSA | MW-161 | 10/08/2001 | GROUNDWATER | 145.00 | 155.00 | 0.00 | 10.00 |
| DW101101 | GAC WATER | 10/11/2001 | IDW | 0.00 | 0.00 | | |
| PWPPC10NO1A | RRA CONTAINMENT | 10/11/2001 | IDW | 0.00 | 0.00 | | |
| PWPPC10NO1D | RRA CONTAINMENT | 10/11/2001 | IDW | 0.00 | 0.00 | | |
| G185DAA | MW-185 | 10/10/2001 | PROFILE | 142.00 | 142.00 | 10.00 | 10.00 |
| G185DBA | MW-185 | 10/10/2001 | PROFILE | 150.00 | 150.00 | 18.00 | 18.00 |
| G185DCA | MW-185 | 10/10/2001 | PROFILE | 160.00 | 160.00 | 28.00 | 28.00 |
| G185DDA | MW-185 | 10/10/2001 | PROFILE | 170.00 | 170.00 | 38.00 | 38.00 |
| G185DDD | MW-185 | 10/10/2001 | PROFILE | 170.00 | 170.00 | 38.00 | 38.00 |
| G185DEA | MW-185 | 10/10/2001 | PROFILE | 180.00 | 180.00 | 48.00 | 48.00 |
| G185DFA | MW-185 | 10/10/2001 | PROFILE | 190.00 | 190.00 | 58.00 | 58.00 |
| G185DGA | MW-185 | 10/10/2001 | PROFILE | 200.00 | 200.00 | 68.00 | 68.00 |
| G185DHA | MW-185 | 10/10/2001 | PROFILE | 210.00 | 210.00 | 78.00 | 78.00 |
| G185DIA | MW-185 | 10/11/2001 | PROFILE | 220.00 | 220.00 | 88.00 | 88.00 |
| G185DJA | MW-185 | 10/11/2001 | PROFILE | 230.00 | 230.00 | 98.00 | 98.00 |
| G185DKA | MW-185 | 10/11/2001 | PROFILE | 240.00 | 240.00 | 108.00 | 108.00 |
| G185DLA | MW-185 | 10/12/2001 | PROFILE | 250.00 | 250.00 | 118.00 | 118.00 |
| G185DMA | MW-185 | 10/12/2001 | PROFILE | 260.00 | 260.00 | 128.00 | 128.00 |
| G185DNA | MW-185 | 10/12/2001 | PROFILE | 270.00 | 270.00 | 138.00 | 138.00 |
| G185DOA | MW-185 | 10/12/2001 | PROFILE | 280.00 | 280.00 | 148.00 | 148.00 |
| G185DPA | MW-185 | 10/12/2001 | PROFILE | 290.00 | 290.00 | 158.00 | 158.00 |
| GAB30A | J2P-11 | 10/10/2001 | PROFILE | 95.00 | 95.00 | 4.30 | 4.30 |
| GAB30D | J2P-11 | 10/10/2001 | PROFILE | 95.00 | 95.00 | 4.30 | 4.30 |
| HC102PB1AAA | 102PB | 10/11/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HC102PB1BAA | 102PB | 10/11/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HC102PB1CAA | 102PB | 10/11/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102PB1CAD | 102PB | 10/11/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102PC1AAA | 102PC | 10/11/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HC102PC1BAA | 102PC | 10/11/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HC102PC1CAA | 102PC | 10/11/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102PC1CAD | 102PC | 10/11/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102PD1AAA | 102PD | 10/11/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HC102PD1BAA | 102PD | 10/11/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HC102PD1CAA | 102PD | 10/11/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102PE1AAA | 102PE | 10/11/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HC102PE1BAA | 102PE | 10/11/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HC102PE1CAA | 102PE | 10/11/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102VA1DAA | 102VA | 10/11/2001 | 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
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
10/6/2001-10/12/2001

| OGDEN_ID | LOCID OR WELL ID | DATE SAMPLED | SAMPLE TYPE | SBD | SED | BWTS | BWTE |
|---|---|---|---|---|---|---|---|
| HC102VB1AAA | 102VB | 10/12/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HC102VB1BAA | 102VB | 10/12/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HC102VB1CAA | 102VB | 10/12/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102VB1DAA | 102VB | 10/12/2001 | SOIL GRID | 1.50 | 2.00 | | |
| HC102VD1AAA | 102VD | 10/12/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HC102VD1BAA | 102VD | 10/12/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HC102VD1CAA | 102VD | 10/12/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102VD1DAA | 102VD | 10/12/2001 | SOIL GRID | 1.50 | 2.00 | | |
| HC102VE1AAA | 102VE | 10/12/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HC102VE1BAA | 102VE | 10/12/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HC102VE1CAA | 102VE | 10/12/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102VE1DAA | 102VE | 10/12/2001 | SOIL GRID | 1.50 | 2.00 | | |
| HC102VG1AAA | 102VG | 10/12/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HC102VG1BAA | 102VG | 10/12/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HC102VG1CAA | 102VG | 10/12/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102VG1DAA | 102VG | 10/12/2001 | SOIL GRID | 1.50 | 2.00 | | |
| HC102VH1AAA | 102VH | 10/12/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HC102VH1BAA | 102VH | 10/12/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HC102VH1CAA | 102VH | 10/12/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102VH1DAA | 102VH | 10/12/2001 | SOIL GRID | 1.50 | 2.00 | | |
| HC102VJ1AAA | 102VJ | 10/11/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HC102VJ1BAA | 102VJ | 10/11/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HC102VJ1CAA | 102VJ | 10/11/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HC102VJ1DAA | 102VJ | 10/11/2001 | SOIL GRID | 1.50 | 2.00 | | |
| HD102N11AAA | 102N1 | 10/11/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HD102N11BAA | 102N1 | 10/11/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HD102N11CAA | 102N1 | 10/11/2001 | SOIL GRID | 0.50 | 1.00 | | |
| HD102N21AAA | 102N2 | 10/11/2001 | SOIL GRID | 0.00 | 0.25 | | |
| HD102N21BAA | 102N2 | 10/11/2001 | SOIL GRID | 0.25 | 0.50 | | |
| HD102N21CAA | 102N2 | 10/11/2001 | SOIL GRID | 0.50 | 1.00 | | |

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
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 9/22/01-10/12/01

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| 27MW0017A | 27MW0017 | 10/01/2001 | GROUNDWATER | 134.00 | 139.00 | 49.70 | 54.70 | 8330N | 1,3-DINITROBENZENE | NO |
| 27MW0017A | 27MW0017 | 10/01/2001 | GROUNDWATER | 134.00 | 139.00 | 49.70 | 54.70 | 8330N | NITROGLYCERIN | NO |
| W135M2A | MW-135 | 10/04/2001 | GROUNDWATER | 280.00 | 290.00 | 91.60 | 101.60 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W166M1A | MW-166 | 10/04/2001 | GROUNDWATER | 218.00 | 223.00 | 112.00 | 117.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W166M2A | MW-166 | 10/04/2001 | GROUNDWATER | 150.00 | 160.00 | 44.00 | 54.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W166M2A | MW-166 | 10/04/2001 | GROUNDWATER | 150.00 | 160.00 | 44.00 | 54.00 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| W166M3A | MW-166 | 10/04/2001 | GROUNDWATER | 125.00 | 135.00 | 16.40 | 26.40 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W166M3A | MW-166 | 10/04/2001 | GROUNDWATER | 125.00 | 135.00 | 16.40 | 26.40 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| W88M2A | MW-88 | 09/28/2001 | GROUNDWATER | 213.00 | 223.00 | 72.00 | 82.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W88M2A | MW-88 | 09/28/2001 | GROUNDWATER | 213.00 | 223.00 | 72.00 | 82.00 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| W89M1A | MW-89 | 09/28/2001 | GROUNDWATER | 234.00 | 244.00 | 92.00 | 102.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W89M2A | MW-89 | 10/03/2001 | GROUNDWATER | 214.00 | 224.00 | 72.00 | 82.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W89M2A | MW-89 | 10/03/2001 | GROUNDWATER | 214.00 | 224.00 | 72.00 | 82.00 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| W89M2D | MW-89 | 10/03/2001 | GROUNDWATER | 214.00 | 224.00 | 69.10 | 79.10 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W89M2D | MW-89 | 10/03/2001 | GROUNDWATER | 214.00 | 224.00 | 69.10 | 79.10 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| W91M1A | MW-91 | 10/03/2001 | GROUNDWATER | 170.00 | 180.00 | 45.00 | 55.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W91M1A | MW-91 | 10/03/2001 | GROUNDWATER | 170.00 | 180.00 | 45.00 | 55.00 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| W93M1A | MW-93 | 10/03/2001 | GROUNDWATER | 185.00 | 195.00 | 56.00 | 66.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W93M2A | MW-93 | 10/03/2001 | GROUNDWATER | 145.00 | 155.00 | 16.00 | 26.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W93M2A | MW-93 | 10/03/2001 | GROUNDWATER | 145.00 | 155.00 | 16.00 | 26.00 | 8330N | OCTAHYDRO-1,3,5,7-TETRANITR | YES |
| W95M1A | MW-95 | 10/01/2001 | GROUNDWATER | 202.00 | 212.00 | 78.00 | 88.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| W95M2A | MW-95 | 10/01/2001 | GROUNDWATER | 167.00 | 177.00 | 43.00 | 53.00 | 8330N | HEXAHYDRO-1,3,5-TRINITRO-1,3 | YES |
| G185DAA | MW-185 | 10/10/2001 | PROFILE | 142.00 | 142.00 | 10.00 | 10.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DAA | MW-185 | 10/10/2001 | PROFILE | 142.00 | 142.00 | 10.00 | 10.00 | 8330N | NITROGLYCERIN | NO |
| G185DAA | MW-185 | 10/10/2001 | PROFILE | 142.00 | 142.00 | 10.00 | 10.00 | 8330N | PICRIC ACID | NO |
| G185DBA | MW-185 | 10/10/2001 | PROFILE | 150.00 | 150.00 | 18.00 | 18.00 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | NO |
| G185DBA | MW-185 | 10/10/2001 | PROFILE | 150.00 | 150.00 | 18.00 | 18.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DBA | MW-185 | 10/10/2001 | PROFILE | 150.00 | 150.00 | 18.00 | 18.00 | 8330N | NITROGLYCERIN | NO |
| G185DCA | MW-185 | 10/10/2001 | PROFILE | 160.00 | 160.00 | 28.00 | 28.00 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | NO |
| G185DCA | MW-185 | 10/10/2001 | PROFILE | 160.00 | 160.00 | 28.00 | 28.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DCA | MW-185 | 10/10/2001 | PROFILE | 160.00 | 160.00 | 28.00 | 28.00 | 8330N | NITROGLYCERIN | NO |
| G185DDA | MW-185 | 10/10/2001 | PROFILE | 170.00 | 170.00 | 38.00 | 38.00 | 8330N | 2,4-DIAMINO-6-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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 9/22/01-10/12/01

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| G185DDA | MW-185 | 10/10/2001 | PROFILE | 170.00 | 170.00 | 38.00 | 38.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DDA | MW-185 | 10/10/2001 | PROFILE | 170.00 | 170.00 | 38.00 | 38.00 | 8330N | NITROGLYCERIN | NO |
| G185DDD | MW-185 | 10/10/2001 | PROFILE | 170.00 | 170.00 | 38.00 | 38.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| G185DDD | MW-185 | 10/10/2001 | PROFILE | 170.00 | 170.00 | 38.00 | 38.00 | 8330N | 1,3-DINITROBENZENE | NO |
| G185DDD | MW-185 | 10/10/2001 | PROFILE | 170.00 | 170.00 | 38.00 | 38.00 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | NO |
| G185DDD | MW-185 | 10/10/2001 | PROFILE | 170.00 | 170.00 | 38.00 | 38.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DDD | MW-185 | 10/10/2001 | PROFILE | 170.00 | 170.00 | 38.00 | 38.00 | 8330N | NITROGLYCERIN | NO |
| G185DEA | MW-185 | 10/10/2001 | PROFILE | 180.00 | 180.00 | 48.00 | 48.00 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | YES |
| G185DEA | MW-185 | 10/10/2001 | PROFILE | 180.00 | 180.00 | 48.00 | 48.00 | 8330N | NITROGLYCERIN | NO |
| G185DFA | MW-185 | 10/10/2001 | PROFILE | 190.00 | 190.00 | 58.00 | 58.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| G185DFA | MW-185 | 10/10/2001 | PROFILE | 190.00 | 190.00 | 58.00 | 58.00 | 8330N | 1,3-DINITROBENZENE | NO |
| G185DFA | MW-185 | 10/10/2001 | PROFILE | 190.00 | 190.00 | 58.00 | 58.00 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | YES |
| G185DFA | MW-185 | 10/10/2001 | PROFILE | 190.00 | 190.00 | 58.00 | 58.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DGA | MW-185 | 10/10/2001 | PROFILE | 200.00 | 200.00 | 68.00 | 68.00 | 8330N | 1,3-DINITROBENZENE | NO |
| G185DGA | MW-185 | 10/10/2001 | PROFILE | 200.00 | 200.00 | 68.00 | 68.00 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | YES |
| G185DGA | MW-185 | 10/10/2001 | PROFILE | 200.00 | 200.00 | 68.00 | 68.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DHA | MW-185 | 10/10/2001 | PROFILE | 210.00 | 210.00 | 78.00 | 78.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| G185DHA | MW-185 | 10/10/2001 | PROFILE | 210.00 | 210.00 | 78.00 | 78.00 | 8330N | 1,3-DINITROBENZENE | NO |
| G185DHA | MW-185 | 10/10/2001 | PROFILE | 210.00 | 210.00 | 78.00 | 78.00 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | YES |
| G185DHA | MW-185 | 10/10/2001 | PROFILE | 210.00 | 210.00 | 78.00 | 78.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DHA | MW-185 | 10/10/2001 | PROFILE | 210.00 | 210.00 | 78.00 | 78.00 | 8330N | NITROGLYCERIN | NO |
| G185DIA | MW-185 | 10/11/2001 | PROFILE | 220.00 | 220.00 | 88.00 | 88.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| G185DIA | MW-185 | 10/11/2001 | PROFILE | 220.00 | 220.00 | 88.00 | 88.00 | 8330N | 1,3-DINITROBENZENE | NO |
| G185DIA | MW-185 | 10/11/2001 | PROFILE | 220.00 | 220.00 | 88.00 | 88.00 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | YES |
| G185DIA | MW-185 | 10/11/2001 | PROFILE | 220.00 | 220.00 | 88.00 | 88.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DIA | MW-185 | 10/11/2001 | PROFILE | 220.00 | 220.00 | 88.00 | 88.00 | 8330N | 2-NITROTOLUENE | NO |
| G185DIA | MW-185 | 10/11/2001 | PROFILE | 220.00 | 220.00 | 88.00 | 88.00 | 8330N | 3-NITROTOLUENE | NO |
| G185DIA | MW-185 | 10/11/2001 | PROFILE | 220.00 | 220.00 | 88.00 | 88.00 | 8330N | 4-NITROTOLUENE | NO |
| G185DIA | MW-185 | 10/11/2001 | PROFILE | 220.00 | 220.00 | 88.00 | 88.00 | 8330N | NITROGLYCERIN | NO |
| G185DIA | MW-185 | 10/11/2001 | PROFILE | 220.00 | 220.00 | 88.00 | 88.00 | 8330N | PICRIC ACID | NO |
| G185DJA | MW-185 | 10/11/2001 | PROFILE | 230.00 | 230.00 | 98.00 | 98.00 | 8330N | 1,3,5-TRINITROBENZENE | NO |
| G185DJA | MW-185 | 10/11/2001 | PROFILE | 230.00 | 230.00 | 98.00 | 98.00 | 8330N | 1,3-DINITROBENZENE | NO |

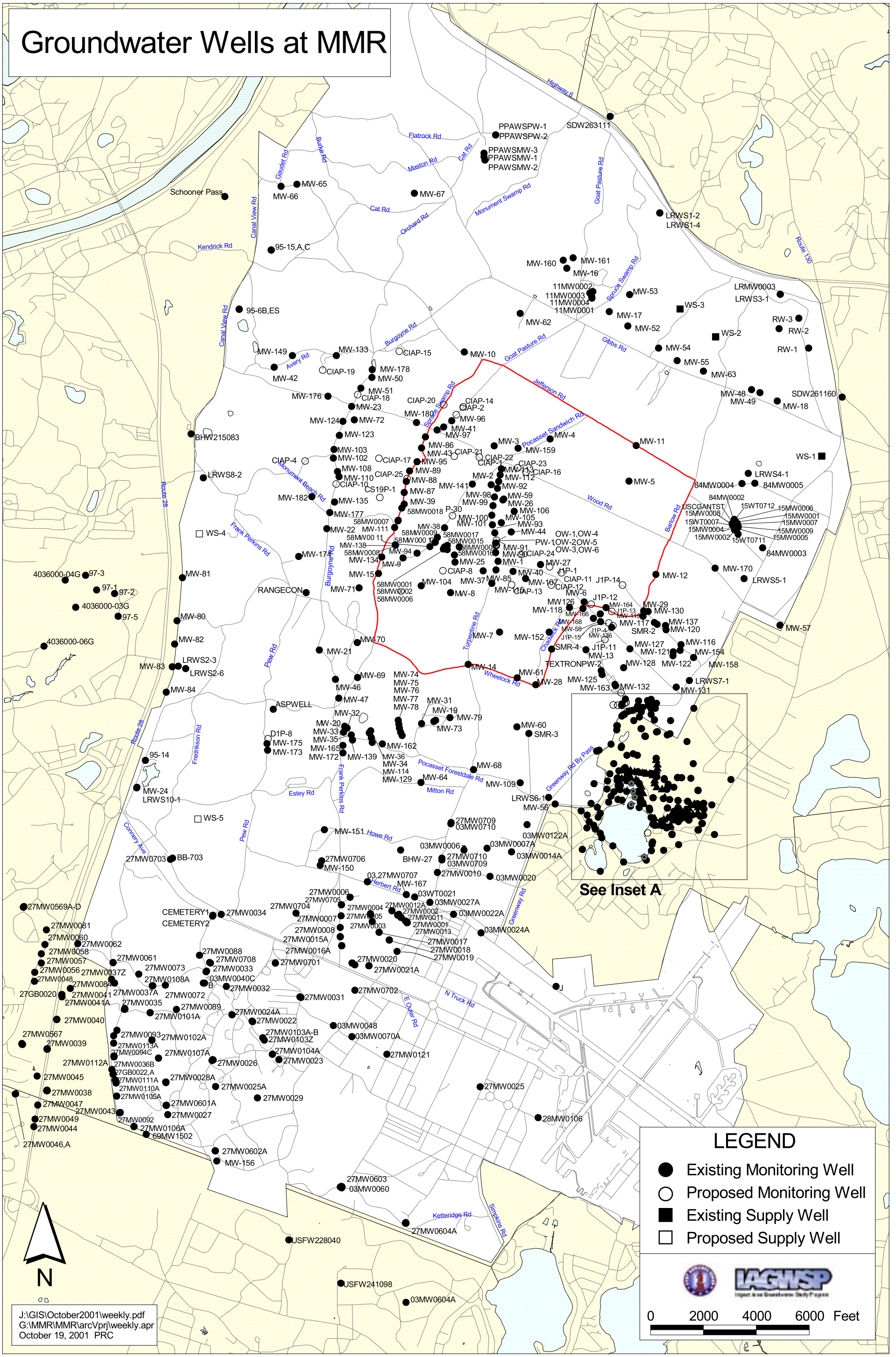
DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS
SED = SAMPLE COLLECTION END DEPTH IN FEET BGS
BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET
BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
PDA/YES = Photo Diode Array, Detect Confirmed
PDA/NO = Photo Diode Array, Detect Not Confirmed
* = Interference in sample

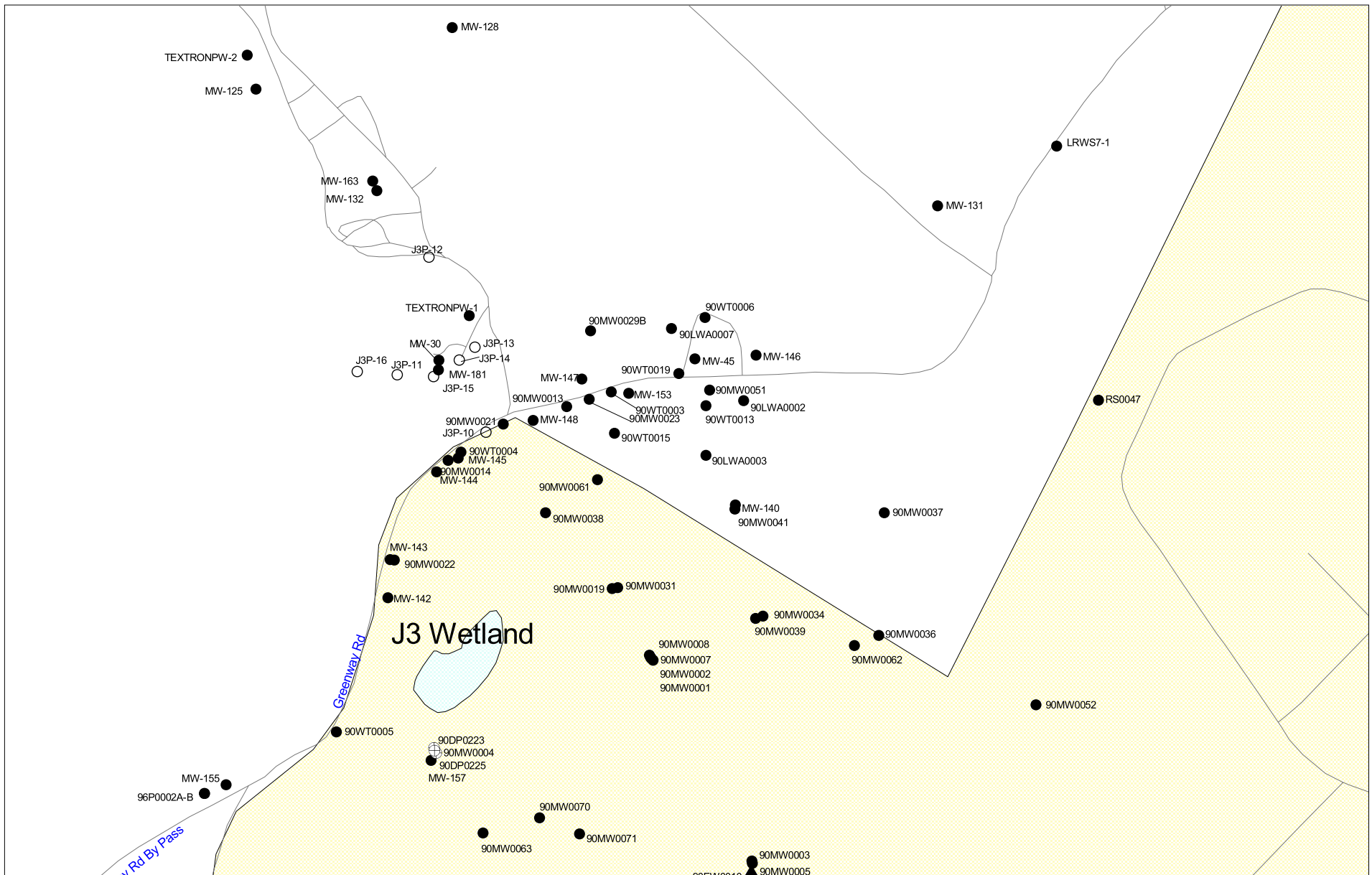
TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 9/22/01-10/12/01

| OGDEN_ID | LOCID OR WELL ID | SAMPLED | SAMP_TYPE | SBD | SED | BWTS | BWTE | METHOD | OGDEN_ANALYTE | PDA |
|---|---|---|---|---|---|---|---|---|---|---|
| G185DJA | MW-185 | 10/11/2001 | PROFILE | 230.00 | 230.00 | 98.00 | 98.00 | 8330N | 2,4-DIAMINO-6-NITROTOLUENE | YES |
| G185DJA | MW-185 | 10/11/2001 | PROFILE | 230.00 | 230.00 | 98.00 | 98.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DJA | MW-185 | 10/11/2001 | PROFILE | 230.00 | 230.00 | 98.00 | 98.00 | 8330N | NITROGLYCERIN | NO |
| G185DJA | MW-185 | 10/11/2001 | PROFILE | 230.00 | 230.00 | 98.00 | 98.00 | 8330N | PICRIC ACID | NO |
| G185DKA | MW-185 | 10/11/2001 | PROFILE | 240.00 | 240.00 | 108.00 | 108.00 | 8330N | 2,4-DINITROTOLUENE | NO |
| G185DKA | MW-185 | 10/11/2001 | PROFILE | 240.00 | 240.00 | 108.00 | 108.00 | 8330N | NITROGLYCERIN | NO |
| G185DKA | MW-185 | 10/11/2001 | PROFILE | 240.00 | 240.00 | 108.00 | 108.00 | 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






# Inset A

J:\GIS\October2001\weekly_a.pdf
G:\MMR\MMR\arcvprj\weekly.apr
October 19, 2001 PRC