WEEKLY PROGRESS UPDATE
FOR SEPTEMBER 24 – SEPTEMBER 28, 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 September 24 to September 28, 2001.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of September 28 is summarized in Table 1.

Table 1. Drilling progress as of September 28, 2001

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-177	Central Impact Area Well (CIAP-7)	300	112	
MW-182	Central Impact Area Well (CIAP-9)	370	200	
MW-183	Central Impact Area Well (CIAP-4)	335	154	
MW-184	Central Impact Area Well (P-30)	350	225	

Bgs = below ground surface
Bwt = below water table

Completed redrilling MW-177 (CIAP-7) and completed drilling of MW-182 (CIAP-9) and MW-184 (P-30). Continued drilling of MW-183 (CIAP-4). 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-177 (CIAP-7), MW-182 (CIAP-9), MW-183 (CIAP-4), and MW-184 (P-30). Groundwater samples were collected as part of the August Long Term Groundwater Monitoring round, including samples collected from water supply wells at the Ammunition Supply Point, the National Cemetery, and Range Control; and samples from wells at Snake Pond. Water samples were also collected from the influent and effluent of the FS-12 Treatment System and the GAC treatment unit. Soil samples were collected from grids on J-1 Range. Post-detonation soil samples were also collected at crater grids at the Central Impact Area pump test well area and supplemental crater grids at the J-1 and J-3 Ranges.

The Guard, EPA, and MADEP had a meeting on September 27 to discuss technical issues, including the following:

Attendees

Ben Gregson (IAGWSPO)	CPT Bill Meyer (IAGWSPO)	Karen Wilson (IAGWSPO)
Bill Gallagher (IAGWSPO)	COL Albert Bleakley (JPO)	Todd Borci (EPA)
Mike Jasinski (EPA - phone)	Jane Dolan (EPA)	Len Pinaud (MADEP)
Mark Panni (MADEP)	Alan Williams (ACE)	Darrell Deleppo (ACE)
Heather Sullivan (ACE)	Ed Wise (ACE)	Ellen Iorio (ACE)
Rob Foti (ACE)	Gina Tyo (ACE)	Marc Grant (AMEC)
Jay Clausen(AMEC-phone)	Rob Clemens (AMEC)	Herb Colby (AMEC-phone)
Kim Harriz (AMEC)	Larry Hudgins (Tetra Tech)	Dave Williams (MDPH)
Rich Newill (Foothill Engineering)	Adam Balogh (TRC)	LuAnn Schaefer (Army Audit)
Tamonie Deneyall (Army Audit)	Fred R. Adkins (Army Audit)	Melissa Koehler (Army Audit)

Punchlist Item #21

Jane Dolan (EPA) requested that dye analysis be added to the scope of sampling in the following areas:

J-2 Range Melt/Pour – original sampling locations in this area.
J-2 Range Disposal Area 1 – additional delineation grids.
J-2 Range Disposal Area 2 – additional delineation girds.

No written comments would be provided on the proposed dye sampling plan for the J-2 Range.

MSP Status

Ellen Iorio (ACE) provided an overview of the MSP status. Draft maps of the completed geophysical surveys (EM61) were distributed to the agencies.

- Mike Jasinski (EPA) inquired about the due date for the comments on the revised MSP. Comments are due by 10/4 on Chapters 9,10, and 11 of the revised combined MSP. The date that comments are received will set the date for the remaining schedule.
- On the ASP map, a drum of ash was found in the vicinity of Anomaly 1. The Goat Grave is in the vicinity of Anomalies 10/11. This area will be excavated carefully in an attempt to not disturb the grave. 31 anomalies will be excavated in this area.
- Former K Range map. In Area B, all 12 anomalies will be excavated. In Area C, all 4 low-level anomalies will be excavated. In Area E, additional work still needs to be completed with the Schoenstadt. All 9 anomalies will be excavated. In Area F, 8 anomalies were found and will be excavated.
- Succonsette Pond map. The geophysical survey over the pond showed no evidence of anything except single items. All visible surface items were removed prior to the survey. Two items were placed in the pond for QA/QC purposes: a 2" diameter, 18" long pipe seeded 4 feet below the water surface and a 4" diameter pipe, 18" long seeded one foot below the water surface. Intrusive validation had not been proposed in this area due to logistical and environmental concerns. This site will be shelved pending a decision regarding additional work.
- Jane Dolan (EPA) inquired about the report for the geophysical survey at the J-3 Wetland. CPT Meyer (IAGWSPO) indicated that this was addressed in the revised MSP report but he would check.

Snake Pond Diffusion Sampling

- Ben Gregson (IAGWSPO) stated that the update provided at the IART on Tuesday 9/25 provided the current information. The USGS installed 100+ diffusion samplers in Snake Pond last week. These would be removed in mid-October, approximately 4 weeks after installation.
- Jane Dolan (EPA) requested a data table summarizing the results from the first (test) transect. Dave Hill (IAGWSPO) to provide.

Southeast Corner Plume Map

EPA provided comment on plume maps distributed by AMEC at the 9/20 Tech meeting. Discussion on the Plume maps among EPA, MADEP, JPO and AMEC centered on 3 main topics: 1) whether the plume boundaries as presented by AMEC should be narrowed to more closely tie the plumes to explosive detections in wells. 2) whether the Guard would be prepared to present plume maps at the IART meeting. 3) whether separate plume maps should be drafted for the IART presentation. As part of this discussion, the following suggestions were made.

- Len Pinaud (MADEP) suggested that if the maps are intended for technical discussion and not for public distribution, they should state "FOR INTERNAL DISCUSSION PURPOSES ONLY". MADEP to provide additional comments on the maps via email.
- COL Bleakley (JPO) stressed that he was concerned about the differences between the Guard map (shows plume boundaries to non detect) and the consolidated plume map that would be published by JPO (shows only detections above risk-based criteria).
- Jane Dolan (EPA) made the following suggestions on the RDX map.
    - central RDX plume needs to back track further into L Range based on backtracks from MW-153 and MW-147.
    - TNT degradation products need to be depicted in eastern-most plume.
    - Detection at MW-130 should be a dot.
- Mark Panni (MADEP) wondered why all the non detect wells were located in the middle of the plumes. Marc Grant (AMEC) pointed out that many were water table wells. Herb Colby (AMEC) indicated that plume maps were still being developed in cross section depictions, but the cross sections with data (no plumes) were included in the J-1, J-3, L Range Report.
- Todd Borci (EPA) favored leaving the plumes as conservatively drawn for discussion purposes, reviewing the analytical data currently coming in as part of the ongoing trimester long-term monitoring effort, comparing this data to the maps as currently drawn, and determining whether modifications are warranted prior to presentation to the IART. In his opinion, the Guard needed to decide if sufficient data was available to present the plume maps at the October IART meeting or if the current sampling data would not be received in time and the maps should be presented at the December IART.
- There was an extended discussion about the plume in the interberm area at J-1 Range. Primarily the discussion considered whether separate detections in wells in this area were really connected to form a plume or whether potential source areas such as the steel-lined pit, popper kettle area, and potentially other areas, although close together, represented distinct source areas and suggested separate plumes. In addition, Ms. Dolan questioned why the plume wasn't more aligned with particle tracks in the Interberm Area. Herb Colby (AMEC) pointed out that the reason the plume in this area wasn't separated and might not be as tightly aligned with the particle tracks was attributable to the fact that the groundwater mound historically has shifted. Spreading of contaminants likely occurred near the top of the mound, so less weight can be placed on the particle tracks. More defined plumes are expected further away from the mound. Ben Gregson (IAGWSPO) emphasized that this was an important point whether the plume(s) tracked north or more northwest. Mr. Colby indicated that the proposed well locations addressed both scenarios, although there were no wells located directly north of MW-164.
- Marc Grant (AMEC) suggested that the map could be split into a north and south depiction so that all proposed well locations on the north would be shown as wells and more of the Central Impact Area would be captured including MW-18 and MW-170, as requested by Mr. Borci. Ms. Dolan suggested that another map of only the northern portion could be developed considering plume origins at the former steel-lined pit and popper kettle (review ash results). But the map as presented should also be retained.
- Len Pinaud (MADEP) suggested that the proposed well fence in the northern portion of the

ranges be shifted west. Ms. Dolan and Mr. Colby pointed out that these wells were already against a tree line.

- The HMX plume was discussed. Ms. Dolan suggested that the Melt/Pour Building well detection should be separate plume, since it is not known where it joins the detonation pit plume.
- Ms. Dolan suggested that the plume in vicinity of MW-147 detections be left as open ended. Mr. Colby indicated that a backward particle track could bound the detection at MW-147. Mike Jasinski (EPA), Mark Panni (MADEP), and Mr. Pinaud pointed out that one detection should represent a dot - not a plume. Ms. Dolan pointed out that in this case the HMX was probably associated with the RDX plume in the central area. And that to be conservative, the plume should be left as is. Groundwater sampling of downgradient wells 90MW0031 and 90MW0019 (that haven't been sampled in awhile) should help determine the downgradient extent of the plume.
- Regarding the perchlorate plume, Ms. Dolan doubted that the detections formed a single plume as shown in the depiction, particularly 90MW0054. However, to be conservative, the plume map could be kept as is. But perhaps different for the public presentation. Mr. Gregson inquired if the well screens where perchlorate was detected were at depths consistent with a single plume. Mr. Colby indicated that they were.
- Ms. Dolan suggested that Greenway Road and the Impact Area boundary be labeled.
- Herb Colby (AMEC) to incorporate comments in revised plume maps ASAP, so that agencies can prepare comments on the J-1, J-3, L Report recommendations with the assistance of these maps.

HUTA2 Scope

Ellen Iorio (ACE) solicited comments on the Guard's recent Response to Comment letter on the HUTA2 scope. Todd Borci (EPA) suggested that discussion of the scoping for the CIA Soil FS Screening Report should be combined with the discussion of the HUTA2 scope. Ms. Iorio agreed that these could be discussed together at the 10/04 Tech meeting.

Perchlorate Detections at GP-16

The plan of action was discussed regarding the recent detection of Perchlorate at GP-16. Todd Borci (EPA) had requested that the Guard investigate sampling of the Schooner Pass well and Comfort Station well at the 9/20 Tech meeting.

- Marc Grant (AMEC) indicated that the Schooner Pass well had been sampled 3 times between 1997 and 1999 for Phase I analytes, but not perchlorate. Due to a lack of detections, the well was dropped as part of the LTM program in 2000. This well does not appear to be downgradient of MW-66 at GP-16 but may be downgradient of another position (GP-19). It was not known if this well was still used as a water supply well or the specific well construction details. Mr. Grant to check on construction details. Following the meeting, AMEC confirmed that this well is currently in use and an appointment had been set up to sample the well on Tuesday 10/02.
- Mr. Borci and Mike Jasinski (EPA) recommended that depending on whether or not there was a pump present in the well, the well should be sampled at 10 feet along the length of the screen. They noted that the well was cross gradient of MW-66S. Mr. Borci to review soil data from GP-19 to see if additional constituents were of concern. But most likely analysis of explosives would be requested in addition to Perchlorate.
- Heather Sullivan (ACE) reported that the Comfort Station well had been abandoned in April 2000. During its use, it was sampled for the standard drinking water parameters.

- Mr. Borci asked about a new housing development across from GP-16, was there any information on whether private wells or a community water well was associated with this development? COL Bleakley (JPO) indicated that the Bourne water district will know if the town distributes water to this development. Ms. Sullivan to investigate.

IART Maps

- Todd Borci (EPA) requested that only 2 IART maps showing all the wells of interest be provided if possible, 1 overview and 1 inset. Mr. Borci indicated that it would be best to separate the maps based on the groundwater mound at J-1 Range, but at least in accordance with the view that he had suggested at the 9/20 meeting.
- Marc Grant (AMEC) asked if the agencies were receptive to larger-sized maps. Mr. Borci indicated that this was up to the Guard to decide. A couple of alternatives could be presented for the EPA's consideration.
- Mr. Borci further requested that in accordance with Ben Gregson's (IAGWSPO) earlier approval, the CAL Limit of 18 ppb for Perchlorate should be replaced with the Camp Edwards limit of 1.5 ppb. Mr. Gregson requested that it be called the EPA Limit; Mr. Borci concurred.
- Mr. Borci also requested that the VOC IART map be prepared without the chloroform and bis (2-ethylhexyl) phthalate (BEHP) detections since they are obscured the other VOC detections. Mr. Borci further requested that the chloroform and BEHP detections be placed on two separate maps, the overview only would be acceptable. A draft should be prepared before the IART meeting for the agencies review. Mr. Borci further requested that the BEHP map should be similar to the Monthly maps and show detections above MCLs versus detections below MCLs. Mr. Gregson inquired if the chloroform and BEHP maps were really needed. Len Pinaud (MADEP) pointed out that DEP wasn't interested in the chloroform and BEHP maps. Mr. Borci responded that he was interested in this information and a decision could be made later whether to present these maps at the IART on a one-time occasion.

Miscellaneous

- Jane Dolan (EPA) asked why the Fate and Transport study was delayed. Jay Clausen (AMEC) responded that the University of Texas (UT) had had contract delays, equipment procurement delays, and delays in receiving standards. Approximately 1/3 of the data was outstanding; this data was anticipated by the end of October. UT was planning on doing an Interim Report to present the portion of the study that was completed. The degradation study was the portion that had been delayed.
- Ms. Dolan asked when the J Range well drilling would commence. Bill Gallagher (IAGWSPO) indicated that this drilling would likely begin in about 2 weeks.
- Ms. Dolan requested an explanation on why in the J-1, J-3, L Ranges Report a note associated with wells (example 90MW0054) indicated that results for samples collected after 1/01/01 were not available.
- Ms. Dolan requested information on what wells in addition to the J-1 Range wells had explosive detections in profile samples that had been PDA confirmed and then were reversed in the validation process. Todd Borci (EPA) pointed out that historically this occurrence has been rare. Recent events seem to be associated with petroleum interferences.
- Ms. Dolan inquired as to what the CHEMS geophysical method incorporated. This had been listed on one of the slides CPT Meyer (IAGWSPO) used in the IART presentation. CPT Meyer to check, but expressed only knowledge/memory regarding the KIMS system.
- Ms. Dolan requested that as part of the AirMag proposal for additional validation of targets, the probability of detection and probability of false positives be calculated.

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 58MW0002 (CS-19) had detections of 4A-DNT, RDX and HMX that were confirmed by PDA spectra. The previous round of sampling had similar detections.

- Groundwater profile samples from MW-177 (Central Impact Area well) had detections of 1,3-dinitrobenzene (4 intervals), 2,4-DANT (6 intervals), 2,6-DANT (1 interval), 2A-DNT (1 interval), 4A-DNT (4 intervals), 1,3,5-trinitrobenzene (2 intervals), nitroglycerin (9 intervals), picric acid (7 intervals), and PETN (2 intervals). The 2,4-DANT and 2,6-DANT detections were verified by PDA spectra.

- Groundwater profile samples from MW-182 (Central Impact Area well) had detections of 3-nitrotoluene (4 intervals), 4-nitrotoluene (4 intervals), RDX (5 intervals), nitroglycerin (12 intervals), 2,4-DNT (16 intervals), 2,4-DANT (14 intervals), picric acid (13 intervals), 1,3-dinitrobenzene (4 intervals), PETN (4 intervals), TNT (1 interval) and 1,3,5-trinitrobenzene (3 intervals). One 3-nitrotoluene detection, one 4-nitrotoluene detection, and all of the 2,4-DANT detections were confirmed by PDA spectra.

- Groundwater profile samples from MW-184 (Central Impact Area well) had detections of RDX (5 intervals), HMX (2 intervals), and nitroglycerin (6 intervals). The RDX and HMX detections were confirmed by PDA spectra.

3. DELIVERABLES SUBMITTED

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4. SCHEDULED ACTIONS

Scheduled actions for the week of October 1 include well installations of MW-177 (CIAP-7), MW-182 (CIAP-9), and MW-184 (P-30); continued drilling of MW-183 (CIAP-4), and commence drilling observation wells OW-2 and OW-3 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 commence next week.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

An additional downgradient well location (D1P-8) on Pew Road will be drilled in the coming weeks. Analysis of second, third, and fourth round groundwater samples from newly installed wells is ongoing. The groundwater Feasibility Study is being prepared and will be submitted next week.

TABLE 2
SAMPLING PROGRESS
9/22/2001-9/28/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDJ1300038SS1	J1300038S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ1300038SS2	J1300038S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ1300038SS3	J1300038S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ1300038SS4	J1300038S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ1300038SS4D	J1300038S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ1300038SS5	J1300038S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ1300038SS6	J1300038S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ1300038SS7	J1300038S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ1300038SS8	J1300038S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ1300042SS1	J1300042S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300042SS2	J1300042S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300042SS3	J1300042S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300042SS4	J1300042S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300042SS4D	J1300042S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300042SS5	J1300042S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300042SS6	J1300042S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300042SS7	J1300042S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300042SS8	J1300042S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300071SS1	J1300071S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300071SS2	J1300071S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300071SS3	J1300071S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300071SS4	J1300071S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300071SS4D	J1300071S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300071SS5	J1300071S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300071SS6	J1300071S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300071SS7	J1300071S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ1300071SS8	J1300071S	09/24/2001	CRATER GRID	0.00	0.25		
HDJ3200001SS1	J3200001S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200001SS2	J3200001S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200001SS3	J3200001S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200001SS4	J3200001S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200001SS5	J3200001S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200001SS6	J3200001S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200001SS7	J3200001S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200001SS8	J3200001S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200003SS1	J3200003S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200003SS2	J3200003S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200003SS3	J3200003S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200003SS4	J3200003S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200003SS4D	J3200003S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200003SS5	J3200003S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200003SS6	J3200003S	09/26/2001	CRATER GRID	0.00	0.25		
HDJ3200003SS7	J3200003S	09/26/2001	CRATER GRID	0.00	0.25		

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
9/22/2001-9/28/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDJ3200003SS8	J3200003S	09/26/2001	CRATER GRID	0.00	0.25		
58MW001D-E	FIELDQC	09/26/2001	FIELDQC	0.00	0.00		
90MW0063E	FIELDQC	09/24/2001	FIELDQC	0.00	0.00		
90WT0013E	FIELDQC	09/25/2001	FIELDQC	0.00	0.00		
G177DKE	FIELDQC	09/28/2001	FIELDQC	0.00	0.00		
G182DOE	FIELDQC	09/24/2001	FIELDQC	0.00	0.00		
G182DPE	FIELDQC	09/25/2001	FIELDQC	0.00	0.00		
G183DBE	FIELDQC	09/24/2001	FIELDQC	0.00	0.00		
G183DCE	FIELDQC	09/25/2001	FIELDQC	0.00	0.00		
G183DHE	FIELDQC	09/26/2001	FIELDQC	0.00	0.00		
G183DJE	FIELDQC	09/27/2001	FIELDQC	0.00	0.00		
G183DME	FIELDQC	09/28/2001	FIELDQC	0.00	0.00		
G184DAE	FIELDQC	09/26/2001	FIELDQC	0.00	0.00		
G184DLE	FIELDQC	09/27/2001	FIELDQC	0.00	0.00		
HDA09210101AE	FEILDQC	09/28/2001	FIELDQC	0.00	0.00		
HDA09210101AT	FEILDQC	09/28/2001	FIELDQC	0.00	0.00		
HDJ1300071SS1E	FIELDQC	09/24/2001	FIELDQC	0.00	0.00		
J3200003SS5E	FIELDQC	09/26/2001	FIELDQC	0.00	0.00		
W66SSF	FIELDQC	09/24/2001	FIELDQC	0.00	0.00		
W66SST	FIELDQC	09/24/2001	FIELDQC	0.00	0.00		
58MW0011D	58MW0011	09/26/2001	GROUNDWATER	175.40	180.40	49.50	54.50
58MW0015A	58MW0015	09/26/2001	GROUNDWATER		172.20		51.20
90MW0003	90MW0003	09/25/2001	GROUNDWATER	144.00	149.00	51.80	56.80
90MW0054	90MW0054	09/25/2001	GROUNDWATER	107.00	112.00	91.10	96.10
90MW0063	90MW0063	09/24/2001	GROUNDWATER	50.00	55.00	32.00	37.00
90MW0070	90MW0070	09/25/2001	GROUNDWATER	132.50	137.50	75.60	80.60
90MW0071	90MW0071	09/24/2001	GROUNDWATER	150.00	155.00	79.00	84.00
90MW0080	90MW0080	09/26/2001	GROUNDWATER	139.00	144.00	87.20	92.20
90WT0013	90WT0013	09/25/2001	GROUNDWATER	92.00	102.00	0.00	10.00
90WT0019	90WT0019	09/26/2001	GROUNDWATER	96.00	106.00	0.00	10.00
90WT006	90WT006	09/25/2001	GROUNDWATER	95.00	105.00	0.00	10.00
CEMETERY1	CEMETERY1	09/26/2001	GROUNDWATER				
CEMETERY1	CEMETERY1	09/28/2001	GROUNDWATER				
CEMETERY1D	CEMETERY1D	09/26/2001	GROUNDWATER				
CEMETERY2	CEMETERY2	09/26/2001	GROUNDWATER				
CEMETERY2	CEMETERY2	09/28/2001	GROUNDWATER				
CEMETERYID	CEMETERY1	09/28/2001	GROUNDWATER				
ECMWSNP02D	ECMWSNP02D	09/28/2001	GROUNDWATER			79.90	84.90
ECMWSNP02S	ECMWSNP02S	09/28/2001	GROUNDWATER			40.00	45.00
ECMWSNP02S-D	ECMWSNP02S	09/28/2001	GROUNDWATER			40.00	45.00
ECMWSNP03D	ECMWSNP03	09/27/2001	GROUNDWATER			79.90	84.90
ECMWSNP03S	ECMWSNP03	09/27/2001	GROUNDWATER			40.00	45.00
RANGECON	RANGECON	09/26/2001	GROUNDWATER				
RANGECON	RANGECON	09/28/2001	GROUNDWATER				

Profiling methods include: Volatiles and Explosives
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BWTS = Depth below water table, start depth, measured in feet
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TABLE 2
SAMPLING PROGRESS
9/22/2001-9/28/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
SDW261160	SDW261160	09/24/2001	GROUNDWATER	152.00	162.00	10.20	20.20
W172M3A	MW-172	09/24/2001	GROUNDWATER	109.00	119.00	44.00	54.00
W85M1A	MW-85	09/26/2001	GROUNDWATER	137.50	147.50	19.00	29.00
W85SSA	MW-85	09/27/2001	GROUNDWATER	116.00	126.00	0.00	10.00
W86M1A	MW-86	09/27/2001	GROUNDWATER	208.00	218.00	62.20	72.20
W86M2A	MW-86	09/27/2001	GROUNDWATER	158.00	168.00	12.20	22.20
W86SSA	MW-86	09/27/2001	GROUNDWATER	143.00	153.00	0.00	10.00
W87M1A	MW-87	09/27/2001	GROUNDWATER	194.00	204.00	119.60	129.60
W87M2A	MW-87	09/27/2001	GROUNDWATER	169.00	179.00	34.40	44.40
W87M3A	MW-87	09/28/2001	GROUNDWATER	140.00	150.00	8.00	18.00
W87M3D	MW-87	09/28/2001	GROUNDWATER	140.00	150.00	8.00	18.00
W88M1A	MW-88	09/27/2001	GROUNDWATER	233.00	243.00		
W88M2A	MW-88	09/28/2001	GROUNDWATER	213.00	223.00	72.00	82.00
W88M3A	MW-88	09/28/2001	GROUNDWATER	173.00	183.00	32.00	42.00
W89M1A	MW-88	09/28/2001	GROUNDWATER	234.00	244.00	92.00	102.00
DW092401	GAC WATER	09/24/2001	IDW				
FS12TSEF	FS12TSEF	09/26/2001	PROCESS WATEF				
FS12TSIN	FS12TSIN	09/26/2001	PROCESS WATEF				
G177DAA	MW-177	09/26/2001	PROFILE	197.00	197.00	9.00	9.00
G177DBA	MW-177	09/26/2001	PROFILE	210.00	210.00	22.00	22.00
G177DCA	MW-177	09/26/2001	PROFILE	220.00	220.00	32.00	32.00
G177DCD	MW-177	09/26/2001	PROFILE	220.00	220.00	32.00	32.00
G177DDA	MW-177	09/26/2001	PROFILE	230.00	230.00	42.00	42.00
G177DEA	MW-177	09/26/2001	PROFILE	240.00	240.00	52.00	52.00
G177DFA	MW-177	09/26/2001	PROFILE	250.00	250.00	62.00	62.00
G177DGA	MW-177	09/27/2001	PROFILE	260.00	260.00	72.00	72.00
G177DHA	MW-177	09/27/2001	PROFILE	270.00	270.00	82.00	82.00
G177DIA	MW-177	09/27/2001	PROFILE	280.00	280.00	92.00	92.00
G177DJA	MW-177	09/27/2001	PROFILE	290.00	290.00	102.00	102.00
G177DKA	MW-177	09/28/2001	PROFILE	300.00	300.00	112.00	112.00
G182DMA	MW-182	09/24/2001	PROFILE	310.00	310.00	140.40	140.40
G182DOA	MW-182	09/24/2001	PROFILE	330.00	330.00	160.40	160.40
G182DPA	MW-182	09/25/2001	PROFILE	340.00	340.00	170.40	170.40
G182DQA	MW-182	09/25/2001	PROFILE	350.00	350.00	180.40	180.40
G182DQD	MW-182	09/25/2001	PROFILE	350.00	350.00	180.40	180.40
G182DRA	MW-182	09/25/2001	PROFILE	360.00	360.00	190.40	190.40
G182DSA	MW-182	09/25/2001	PROFILE	370.00	370.00	100.40	100.40
G183DAA	MW-183	09/24/2001	PROFILE	205.00	205.00	23.90	23.90
G183DBA	MW-183	09/24/2001	PROFILE	215.00	215.00	33.90	33.90
G183DCA	MW-183	09/25/2001	PROFILE	225.00	225.00	43.90	43.90
G183DDA	MW-183	09/25/2001	PROFILE	235.00	235.00	53.90	53.90
G183DEA	MW-183	09/25/2001	PROFILE	245.00	245.00	63.90	63.90
G183DFA	MW-183	09/25/2001	PROFILE	255.00	255.00	73.90	73.90
G183DFD	MW-183	09/25/2001	PROFILE	255.00	255.00	73.90	73.90

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
9/22/2001-9/28/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G183DGA	MW-183	09/26/2001	PROFILE	265.00	265.00	83.90	83.90
G183DHA	MW-183	09/26/2001	PROFILE	275.00	275.00	93.90	93.90
G183DIA	MW-183	09/26/2001	PROFILE	285.00	285.00	103.90	103.90
G183DJA	MW-183	09/27/2001	PROFILE	295.00	295.00	113.90	113.90
G183DKA	MW-183	09/27/2001	PROFILE	305.00	305.00	123.90	123.90
G183DLA	MW-183	09/27/2001	PROFILE	315.00	315.00	133.90	133.90
G183DMA	MW-183	09/28/2001	PROFILE	325.00	325.00	143.90	143.90
G184DAA	MW-184	09/26/2001	PROFILE	150.00	150.00	24.50	24.50
G184DBA	MW-184	09/26/2001	PROFILE	160.00	160.00	34.50	34.50
G184DCA	MW-184	09/26/2001	PROFILE	170.00	170.00	44.50	44.50
G184DDA	MW-184	09/26/2001	PROFILE	180.00	180.00	54.50	54.50
G184DDD	MW-184	09/26/2001	PROFILE	180.00	180.00	54.50	54.50
G184DEA	MW-184	09/26/2001	PROFILE	190.00	190.00	64.50	64.50
G184DFA	MW-184	09/26/2001	PROFILE	200.00	200.00	74.50	74.50
G184DGA	MW-184	09/26/2001	PROFILE	210.00	220.00	84.50	84.50
G184DHA	MW-184	09/26/2001	PROFILE	220.00	220.00	94.50	94.50
G184DIA	MW-184	09/26/2001	PROFILE	230.00	230.00	104.50	104.50
G184DJA	MW-184	09/26/2001	PROFILE	240.00	240.00	114.50	114.50
G184DKA	MW-184	09/26/2001	PROFILE	250.00	250.00	124.50	124.50
G184DLA	MW-184	09/27/2001	PROFILE	260.00	260.00	134.50	134.50
G184DMA	MW-184	09/27/2001	PROFILE	270.00	270.00	144.50	144.50
G184DNA	MW-184	09/27/2001	PROFILE	280.00	280.00	154.50	154.50
G184DOA	MW-184	09/27/2001	PROFILE	290.00	290.00	164.50	164.50
G184DPA	MW-184	09/27/2001	PROFILE	300.00	300.00	174.50	174.50
G184DQA	MW-184	09/27/2001	PROFILE	310.00	310.00	184.50	184.50
G184DQD	MW-184	09/27/2001	PROFILE	310.00	310.00	184.50	184.50
G184DRA	MW-184	09/27/2001	PROFILE	320.00	320.00	194.50	194.50
G184DSA	MW-184	09/27/2001	PROFILE	330.00	330.00	204.50	204.50
G184DTA	MW-184	09/27/2001	PROFILE	340.00	340.00	214.50	214.50
G184DUA	MW-184	09/28/2001	PROFILE	350.00	350.00	224.50	224.50
HDA09210101AA	A09210101	09/28/2001	SOIL GRID	0.00	0.25		

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
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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 9/8/01-9/28/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
58MW0002	58MW0002	09/19/2001	GROUNDWATER	122.00	127.00	4.60	9.60	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
58MW0002	58MW0002	09/19/2001	GROUNDWATER	122.00	127.00	4.60	9.60	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
58MW0002	58MW0002	09/19/2001	GROUNDWATER	122.00	127.00	4.60	9.60	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G177DAA	MW-177	09/26/2001	PROFILE	197.00	197.00	9.00	9.00	8330N	NITROGLYCERIN	NO
G177DAA	MW-177	09/26/2001	PROFILE	197.00	197.00	9.00	9.00	8330N	PICRIC ACID	NO
G177DBA	MW-177	09/26/2001	PROFILE	210.00	210.00	22.00	22.00	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G177DBA	MW-177	09/26/2001	PROFILE	210.00	210.00	22.00	22.00	8330N	NITROGLYCERIN	NO
G177DBA	MW-177	09/26/2001	PROFILE	210.00	210.00	22.00	22.00	8330N	PICRIC ACID	NO
G177DCA	MW-177	09/26/2001	PROFILE	220.00	220.00	32.00	32.00	8330N	1,3-DINITROBENZENE	NO
G177DCA	MW-177	09/26/2001	PROFILE	220.00	220.00	32.00	32.00	8330N	NITROGLYCERIN	NO
G177DCD	MW-177	09/26/2001	PROFILE	220.00	220.00	32.00	32.00	8330N	1,3-DINITROBENZENE	NO
G177DCD	MW-177	09/26/2001	PROFILE	220.00	220.00	32.00	32.00	8330N	NITROGLYCERIN	NO
G177DCD	MW-177	09/26/2001	PROFILE	220.00	220.00	32.00	32.00	8330N	PICRIC ACID	NO
G177DDA	MW-177	09/26/2001	PROFILE	230.00	230.00	42.00	42.00	8330N	1,3,5-TRINITROBENZENE	NO
G177DDA	MW-177	09/26/2001	PROFILE	230.00	230.00	42.00	42.00	8330N	1,3-DINITROBENZENE	NO
G177DDA	MW-177	09/26/2001	PROFILE	230.00	230.00	42.00	42.00	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G177DDA	MW-177	09/26/2001	PROFILE	230.00	230.00	42.00	42.00	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G177DDA	MW-177	09/26/2001	PROFILE	230.00	230.00	42.00	42.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G177DDA	MW-177	09/26/2001	PROFILE	230.00	230.00	42.00	42.00	8330N	NITROGLYCERIN	NO
G177DDA	MW-177	09/26/2001	PROFILE	230.00	230.00	42.00	42.00	8330N	PICRIC ACID	NO
G177DEA	MW-177	09/26/2001	PROFILE	240.00	240.00	52.00	52.00	8330N	1,3-DINITROBENZENE	NO
G177DEA	MW-177	09/26/2001	PROFILE	240.00	240.00	52.00	52.00	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G177DEA	MW-177	09/26/2001	PROFILE	240.00	240.00	52.00	52.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G177DEA	MW-177	09/26/2001	PROFILE	240.00	240.00	52.00	52.00	8330N	NITROGLYCERIN	NO
G177DEA	MW-177	09/26/2001	PROFILE	240.00	240.00	52.00	52.00	8330N	PICRIC ACID	NO
G177DFA	MW-177	09/26/2001	PROFILE	250.00	250.00	62.00	62.00	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G177DFA	MW-177	09/26/2001	PROFILE	250.00	250.00	62.00	62.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G177DFA	MW-177	09/26/2001	PROFILE	250.00	250.00	62.00	62.00	8330N	NITROGLYCERIN	NO
G177DFA	MW-177	09/26/2001	PROFILE	250.00	250.00	62.00	62.00	8330N	PICRIC ACID	NO
G177DHA	MW-177	09/27/2001	PROFILE	270.00	270.00	82.00	82.00	8330N	2,6-DIAMINO-4-NITROTOLUENE	YES
G177DHA	MW-177	09/27/2001	PROFILE	270.00	270.00	82.00	82.00	8330N	NITROGLYCERIN	NO
G177DHA	MW-177	09/27/2001	PROFILE	270.00	270.00	82.00	82.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G177DIA	MW-177	09/27/2001	PROFILE	280.00	280.00	92.00	92.00	8330N	2,4-DIAMINO-6-NITROTOLUENE	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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 9/8/01-9/28/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G177DJA	MW-177	09/27/2001	PROFILE	290.00	290.00	102.00	102.00	8330N	1,3,5-TRINITROBENZENE	NO
G177DJA	MW-177	09/27/2001	PROFILE	290.00	290.00	102.00	102.00	8330N	1,3-DINITROBENZENE	NO
G177DJA	MW-177	09/27/2001	PROFILE	290.00	290.00	102.00	102.00	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G177DJA	MW-177	09/27/2001	PROFILE	290.00	290.00	102.00	102.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G177DJA	MW-177	09/27/2001	PROFILE	290.00	290.00	102.00	102.00	8330N	NITROGLYCERIN	NO
G177DJA	MW-177	09/27/2001	PROFILE	290.00	290.00	102.00	102.00	8330N	PENTAERYTHRITOL TETRANITF	NO
G177DJA	MW-177	09/27/2001	PROFILE	290.00	290.00	102.00	102.00	8330N	PICRIC ACID	NO
G177DKA	MW-177	09/28/2001	PROFILE	300.00	300.00	112.00	112.00	8330N	NITROGLYCERIN	NO
G182DAA	MW-182	09/19/2001	PROFILE	190.00	190.00	20.40	20.40	8330N	2,4-DINITROTOLUENE	NO*
G182DAA	MW-182	09/19/2001	PROFILE	190.00	190.00	20.40	20.40	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G182DAA	MW-182	09/19/2001	PROFILE	190.00	190.00	20.40	20.40	8330N	3-NITROTOLUENE	YES
G182DAA	MW-182	09/19/2001	PROFILE	190.00	190.00	20.40	20.40	8330N	4-NITROTOLUENE	NO
G182DAA	MW-182	09/19/2001	PROFILE	190.00	190.00	20.40	20.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G182DAA	MW-182	09/19/2001	PROFILE	190.00	190.00	20.40	20.40	8330N	NITROGLYCERIN	NO
G182DBA	MW-182	09/19/2001	PROFILE	200.00	200.00	30.40	30.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DBA	MW-182	09/19/2001	PROFILE	200.00	200.00	30.40	30.40	8330N	2,4-DINITROTOLUENE	NO*
G182DBA	MW-182	09/19/2001	PROFILE	200.00	200.00	30.40	30.40	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G182DBA	MW-182	09/19/2001	PROFILE	200.00	200.00	30.40	30.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G182DBA	MW-182	09/19/2001	PROFILE	200.00	200.00	30.40	30.40	8330N	NITROGLYCERIN	NO
G182DCA	MW-182	09/20/2001	PROFILE	210.00	210.00	40.40	40.40	8330N	2,4-DINITROTOLUENE	NO*
G182DDA	MW-182	09/20/2001	PROFILE	220.00	220.00	50.40	50.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DDA	MW-182	09/20/2001	PROFILE	220.00	220.00	50.40	50.40	8330N	2,4-DINITROTOLUENE	NO*
G182DDA	MW-182	09/20/2001	PROFILE	220.00	220.00	50.40	50.40	8330N	NITROGLYCERIN	NO*
G182DDD	MW-182	09/20/2001	PROFILE	220.00	220.00	50.40	50.40	8330N	2,4-DINITROTOLUENE	NO*
G182DDD	MW-182	09/20/2001	PROFILE	220.00	220.00	50.40	50.40	8330N	NITROGLYCERIN	NO*
G182DEA	MW-182	09/20/2001	PROFILE	230.00	230.00	60.40	60.40	8330N	1,3-DINITROBENZENE	NO
G182DEA	MW-182	09/20/2001	PROFILE	230.00	230.00	60.40	60.40	8330N	2,4,6-TRINITROTOLUENE	NO
G182DEA	MW-182	09/20/2001	PROFILE	230.00	230.00	60.40	60.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DEA	MW-182	09/20/2001	PROFILE	230.00	230.00	60.40	60.40	8330N	2,4-DINITROTOLUENE	NO*
G182DEA	MW-182	09/20/2001	PROFILE	230.00	230.00	60.40	60.40	8330N	NITROGLYCERIN	NO
G182DEA	MW-182	09/20/2001	PROFILE	230.00	230.00	60.40	60.40	8330N	PICRIC ACID	NO
G182DFA	MW-182	09/20/2001	PROFILE	240.00	240.00	70.40	70.40	8330N	1,3,5-TRINITROBENZENE	NO*
G182DFA	MW-182	09/20/2001	PROFILE	240.00	240.00	70.40	70.40	8330N	1,3-DINITROBENZENE	NO

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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 9/8/01-9/28/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G182DFA	MW-182	09/20/2001	PROFILE	240.00	240.00	70.40	70.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DFA	MW-182	09/20/2001	PROFILE	240.00	240.00	70.40	70.40	8330N	2,4-DINITROTOLUENE	NO*
G182DFA	MW-182	09/20/2001	PROFILE	240.00	240.00	70.40	70.40	8330N	NITROGLYCERIN	NO
G182DFA	MW-182	09/20/2001	PROFILE	240.00	240.00	70.40	70.40	8330N	PICRIC ACID	NO
G182DGA	MW-182	09/20/2001	PROFILE	250.00	250.00	80.40	80.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DGA	MW-182	09/20/2001	PROFILE	250.00	250.00	80.40	80.40	8330N	2,4-DINITROTOLUENE	NO*
G182DGA	MW-182	09/20/2001	PROFILE	250.00	250.00	80.40	80.40	8330N	NITROGLYCERIN	NO
G182DGA	MW-182	09/20/2001	PROFILE	250.00	250.00	80.40	80.40	8330N	PICRIC ACID	NO
G182DHA	MW-182	09/20/2001	PROFILE	260.00	260.00	90.40	90.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DHA	MW-182	09/20/2001	PROFILE	260.00	260.00	90.40	90.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G182DHA	MW-182	09/20/2001	PROFILE	260.00	260.00	90.40	90.40	8330N	PICRIC ACID	NO
G182DIA	MW-182	09/20/2001	PROFILE	270.00	270.00	100.40	100.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DIA	MW-182	09/20/2001	PROFILE	270.00	270.00	100.40	100.40	8330N	2,4-DINITROTOLUENE	NO*
G182DIA	MW-182	09/20/2001	PROFILE	270.00	270.00	100.40	100.40	8330N	NITROGLYCERIN	NO
G182DIA	MW-182	09/20/2001	PROFILE	270.00	270.00	100.40	100.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G182DIA	MW-182	09/20/2001	PROFILE	270.00	270.00	100.40	100.40	8330N	PICRIC ACID	NO
G182DJA	MW-182	09/21/2001	PROFILE	280.00	280.00	110.40	110.40	8330N	1,3,5-TRINITROBENZENE	NO*
G182DJA	MW-182	09/21/2001	PROFILE	280.00	280.00	110.40	110.40	8330N	1,3-DINITROBENZENE	NO
G182DJA	MW-182	09/21/2001	PROFILE	280.00	280.00	110.40	110.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DJA	MW-182	09/21/2001	PROFILE	280.00	280.00	110.40	110.40	8330N	2,4-DINITROTOLUENE	NO*
G182DJA	MW-182	09/21/2001	PROFILE	280.00	280.00	110.40	110.40	8330N	3-NITROTOLUENE	NO
G182DJA	MW-182	09/21/2001	PROFILE	280.00	280.00	110.40	110.40	8330N	4-NITROTOLUENE	YES*
G182DJA	MW-182	09/21/2001	PROFILE	280.00	280.00	110.40	110.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G182DJA	MW-182	09/21/2001	PROFILE	280.00	280.00	110.40	110.40	8330N	PICRIC ACID	NO
G182DKA	MW-182	09/21/2001	PROFILE	290.00	290.00	120.40	120.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DKA	MW-182	09/21/2001	PROFILE	290.00	290.00	120.40	120.40	8330N	2,4-DINITROTOLUENE	NO*
G182DKA	MW-182	09/21/2001	PROFILE	290.00	290.00	120.40	120.40	8330N	2-AMINO-4,6-DINITROTOLUENE	NO*
G182DKA	MW-182	09/21/2001	PROFILE	290.00	290.00	120.40	120.40	8330N	3-NITROTOLUENE	NO
G182DKA	MW-182	09/21/2001	PROFILE	290.00	290.00	120.40	120.40	8330N	4-NITROTOLUENE	NO
G182DKA	MW-182	09/21/2001	PROFILE	290.00	290.00	120.40	120.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G182DKA	MW-182	09/21/2001	PROFILE	290.00	290.00	120.40	120.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G182DKA	MW-182	09/21/2001	PROFILE	290.00	290.00	120.40	120.40	8330N	PICRIC ACID	NO
G182DLA	MW-182	09/21/2001	PROFILE	300.00	300.00	130.40	130.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 9/8/01-9/28/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G182DLA	MW-182	09/21/2001	PROFILE	300.00	300.00	130.40	130.40	8330N	2,4-DINITROTOLUENE	NO*
G182DLA	MW-182	09/21/2001	PROFILE	300.00	300.00	130.40	130.40	8330N	2-AMINO-4,6-DINITROTOLUENE	NO*
G182DLA	MW-182	09/21/2001	PROFILE	300.00	300.00	130.40	130.40	8330N	3-NITROTOLUENE	NO*
G182DLA	MW-182	09/21/2001	PROFILE	300.00	300.00	130.40	130.40	8330N	4-NITROTOLUENE	NO*
G182DLA	MW-182	09/21/2001	PROFILE	300.00	300.00	130.40	130.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G182DLA	MW-182	09/21/2001	PROFILE	300.00	300.00	130.40	130.40	8330N	PENTAERYTHRITOL TETRANITR	NO
G182DLA	MW-182	09/21/2001	PROFILE	300.00	300.00	130.40	130.40	8330N	PICRIC ACID	NO
G182DMA	MW-182	09/24/2001	PROFILE	310.00	310.00	140.40	140.40	8330N	2,4-DINITROTOLUENE	NO
G182DMA	MW-182	09/24/2001	PROFILE	310.00	310.00	140.40	140.40	8330N	PICRIC ACID	NO
G182DOA	MW-182	09/24/2001	PROFILE	330.00	330.00	160.40	160.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DOA	MW-182	09/24/2001	PROFILE	330.00	330.00	160.40	160.40	8330N	NITROGLYCERIN	NO
G182DOA	MW-182	09/24/2001	PROFILE	330.00	330.00	160.40	160.40	8330N	PICRIC ACID	NO
G182DPA	MW-182	09/25/2001	PROFILE	340.00	340.00	170.40	170.40	8330N	2,4-DINITROTOLUENE	NO
G182DPA	MW-182	09/25/2001	PROFILE	340.00	340.00	170.40	170.40	8330N	NITROGLYCERIN	NO
G182DQA	MW-182	09/25/2001	PROFILE	350.00	350.00	180.40	180.40	8330N	1,3,5-TRINITROBENZENE	NO
G182DQA	MW-182	09/25/2001	PROFILE	350.00	350.00	180.40	180.40	8330N	1,3-DINITROBENZENE	NO
G182DQA	MW-182	09/25/2001	PROFILE	350.00	350.00	180.40	180.40	8330N	NITROGLYCERIN	NO
G182DQD	MW-182	09/25/2001	PROFILE	350.00	350.00	180.40	180.40	8330N	1,3,5-TRINITROBENZENE	NO
G182DQD	MW-182	09/25/2001	PROFILE	350.00	350.00	180.40	180.40	8330N	1,3-DINITROBENZENE	NO
G182DQD	MW-182	09/25/2001	PROFILE	350.00	350.00	180.40	180.40	8330N	2,4-DINITROTOLUENE	NO
G182DQD	MW-182	09/25/2001	PROFILE	350.00	350.00	180.40	180.40	8330N	NITROGLYCERIN	NO
G182DQD	MW-182	09/25/2001	PROFILE	350.00	350.00	180.40	180.40	8330N	PICRIC ACID	NO
G182DRA	MW-182	09/25/2001	PROFILE	360.00	360.00	190.40	190.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DRA	MW-182	09/25/2001	PROFILE	360.00	360.00	190.40	190.40	8330N	2,4-DINITROTOLUENE	NO
G182DRA	MW-182	09/25/2001	PROFILE	360.00	360.00	190.40	190.40	8330N	NITROGLYCERIN	NO
G182DRA	MW-182	09/25/2001	PROFILE	360.00	360.00	190.40	190.40	8330N	PICRIC ACID	NO
G182DSA	MW-182	09/25/2001	PROFILE	370.00	370.00	100.40	100.40	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
G182DSA	MW-182	09/25/2001	PROFILE	370.00	370.00	100.40	100.40	8330N	2,4-DINITROTOLUENE	NO
G182DSA	MW-182	09/25/2001	PROFILE	370.00	370.00	100.40	100.40	8330N	NITROGLYCERIN	NO
G182DSA	MW-182	09/25/2001	PROFILE	370.00	370.00	100.40	100.40	8330N	PICRIC ACID	NO
G184DAA	MW-184	09/26/2001	PROFILE	150.00	150.00	24.50	24.50	8330N	NITROGLYCERIN	NO
G184DBA	MW-184	09/26/2001	PROFILE	160.00	160.00	34.50	34.50	8330N	NITROGLYCERIN	NO
G184DCA	MW-184	09/26/2001	PROFILE	170.00	170.00	44.50	44.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES

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DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 9/8/01-9/28/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G184DCA	MW-184	09/26/2001	PROFILE	170.00	170.00	44.50	44.50	8330N	NITROGLYCERIN	NO
G184DDA	MW-184	09/26/2001	PROFILE	180.00	180.00	54.50	54.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G184DDD	MW-184	09/26/2001	PROFILE	180.00	180.00	54.50	54.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G184DEA	MW-184	09/26/2001	PROFILE	190.00	190.00	64.50	64.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G184DEA	MW-184	09/26/2001	PROFILE	190.00	190.00	64.50	64.50	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G184DFA	MW-184	09/26/2001	PROFILE	200.00	200.00	74.50	74.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G184DFA	MW-184	09/26/2001	PROFILE	200.00	200.00	74.50	74.50	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G184DGA	MW-184	09/26/2001	PROFILE	210.00	220.00	84.50	84.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G184DGA	MW-184	09/26/2001	PROFILE	210.00	220.00	84.50	84.50	8330N	NITROGLYCERIN	NO
G184DHA	MW-184	09/26/2001	PROFILE	220.00	220.00	94.50	94.50	8330N	NITROGLYCERIN	NO
G184DJA	MW-184	09/26/2001	PROFILE	240.00	240.00	114.50	114.50	8330N	NITROGLYCERIN	NO

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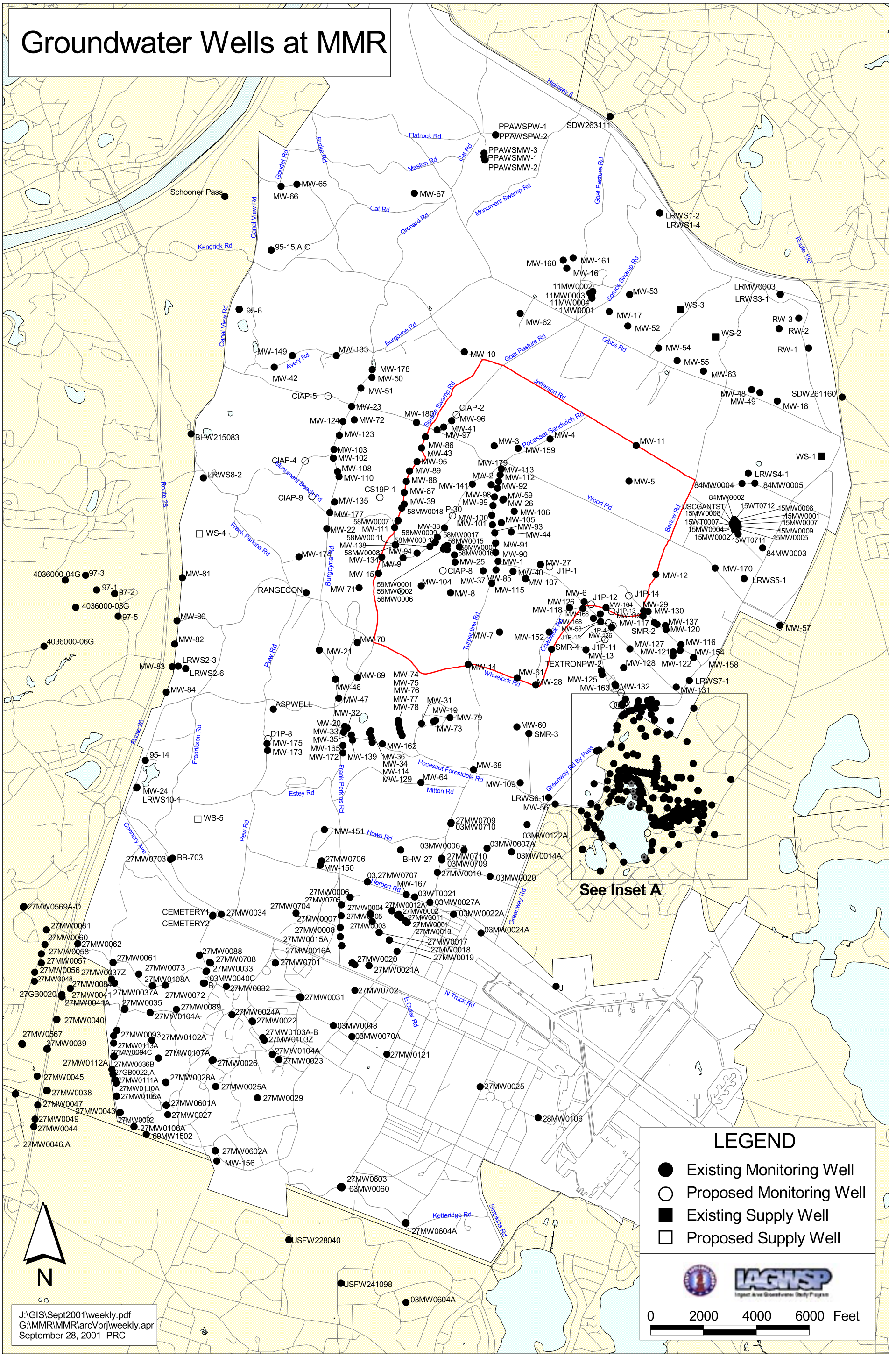
Groundwater Wells at MMR



LEGEND

- ● Existing Monitoring Well
- ○ Proposed Monitoring Well
- ■ Existing Supply Well
- ☐ Proposed Supply Well

IAGWSP
Impact Area Groundwater Study Program

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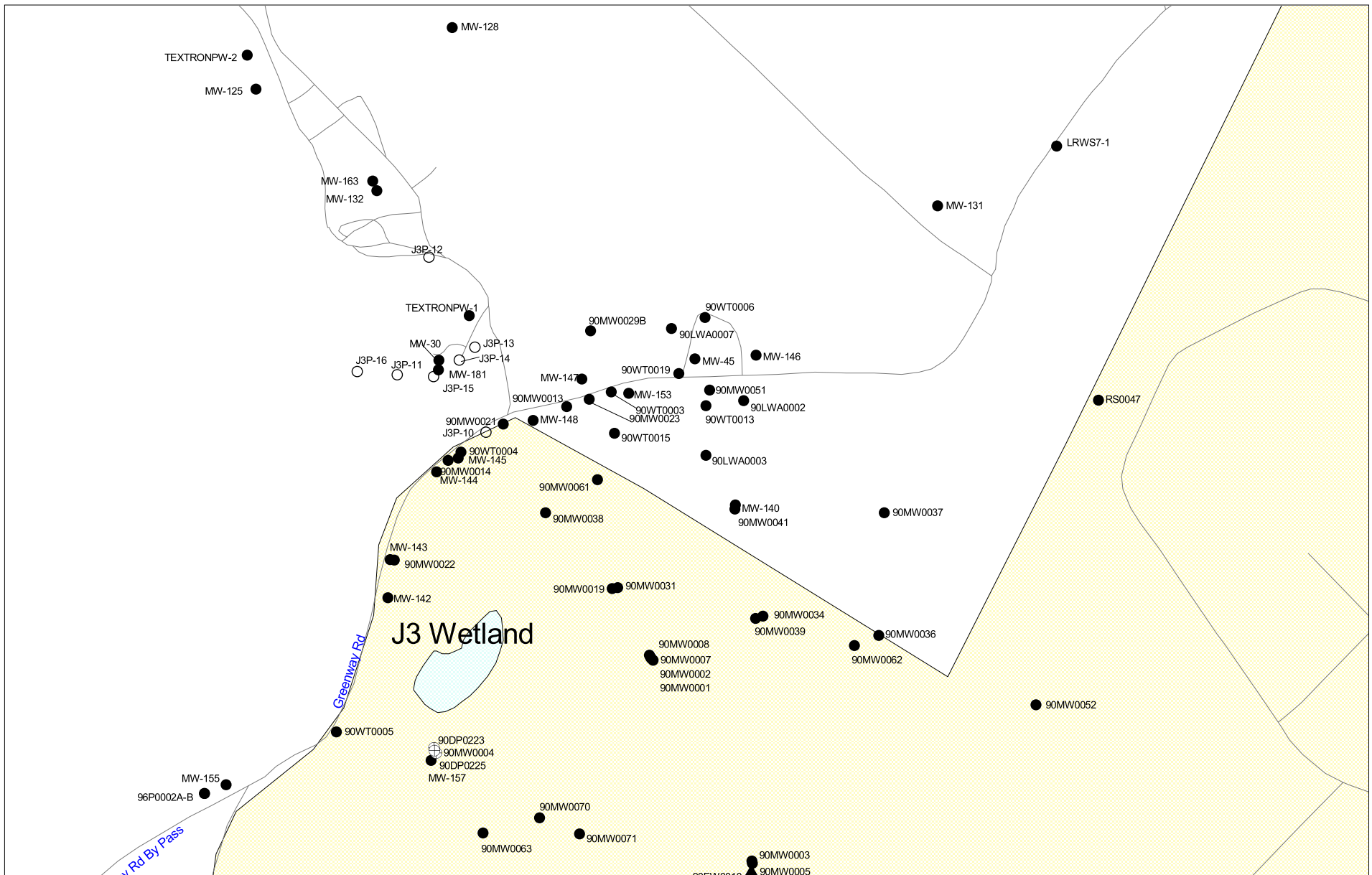
September 28, 2001 PRC



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Inset A

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September 28, 2001 PRC