

**WEEKLY PROGRESS UPDATE
FOR APRIL 23 – APRIL 27, 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 April 23 to April 27, 2001.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of April 27 is summarized in Table 1.

Table 1. Drilling progress as of April 27, 2001				
Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-166	J-1 Range well (J1P-7)	314	204	
MW-167	Phase IIb well (BA-1)	130	44	
Bgs = below ground surface Bwt = below water table				

Completed drilling of MW-166 (J1P-7) and MW-167 (BA-1). Continued development of newly installed wells. Continued UXO avoidance of the Phase IIb soil grids.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected for MW-166 and MW-167 and for AFCEE well 82MW0001 near the former ASP. Groundwater samples were collected for 2001 Long Term Monitoring, the third round of Central Impact Area Supplemental Response wells and first round of newly installed wells. Water samples were collected from the GAC system. Soil samples were collected at the soil grids on the Former C Range, the GA/GB Range, and the Cleared Area 4. A soil grab sample was collected at a BIP crater on the K Range. There were no samples collected for the HUTA investigation.

The Guard, EPA, and MADEP had a meeting on April 26 to discuss technical issues, including the following:

CS-18 and CS-19 Updates

Dave Del Marco (Jacobs) provided an update on CS-18; Ken Gaynor (Jacobs) provided an update on CS-19. A one-page handout was distributed.

- At CS-18, groundwater screening was completed at both the 16MW0005 and 16MW0006 well locations. There were no detections of explosives. There were detections of TCE and PCE < 2.5 ug/L at 16MW0005. Well screens were set at the water table at both locations. A second well screen was set in 16MW0005 from 164-169 ft bgs to quantify VOC detections.
- Soil sampling for lithologic characterization was completed for 16MW0005; currently advancing borehole for lithologic samples at 16MW0006.
- Three of four existing wells at the CS-18 site were developed.
- Upcoming work at CS-18 includes developing the three new wells and redeveloping the remaining existing well; sampling 7 monitor wells; and completing the particle backtrack from 16MW0005.

- At CS-19, trench sampling is expected to start 5/14. Disposition of trench soil will be discussed at the next IRP tech meeting to be held 5/3. Trench location field survey will be completed today, 4/26. Trenches include one 100 ft-long trench and two 40 ft-long trenches, located in the area of the greatest historical UXO anomaly registration.
- Locations of downgradient monitoring well locations will be proposed at the 5/3 IRP tech meeting and the IAGWSP tech meeting. Mike Jasinski (EPA) requested that he be provided with the particle tracks prior to the meeting.
- A breakout session with Todd Borci (EPA) will be conducted to review trenching IDM waste management plan.
- Mr. Borci requested a schedule for trenching and well installation, and groundwater sampling once the new monitoring wells were installed. Mr. Gaynor to provide.
- Mr. Borci also requested information on the progress of installation and split sampling being conducted at IRP well location 82MW0001, located near the Campbell School and former ASP. Marc Grant (AMEC) to check.

Water Supply Study Update

No update was provided.

Munitions Survey Update

John Consoletti (Tetra Tech) presented the update concerning the HUTA. Doug Lam (Tetra Tech) presented the update concerning the J-Range geophysical investigations and AIRMAG survey. Larry Hudgins (Tetra Tech) presented the update concerning the DU Study. A one-page handout was distributed.

- Since last week, additional work was completed only at HUTA Test Pit #6. Lift 1C was excavated. Geophysics was completed on Lift 1D; hand excavation of anomalies is complete. Two BIPs will be completed tomorrow 4/27.
- An overview of the technical approach and initial statistics for the ground geophysical survey at the J-2 Range has been provided to the ACE. Target picks on grids selected by Jane Dolan (EPA) will be provided within the next two weeks. Data was just received for J-1 Range; J-3 Range data has not been received yet. Data for these two ranges is slated for presentation on 6/15.
- AIRMAG data has been reprocessed to eliminate noise. The technical approach for ground-truthing was submitted to ACE. Black Hawk targets are being ranked. This list will be provided to the ACE next week.
- Data from the Depleted Uranium survey has been validated; there were no detects above background. A Tech Memo summarizing the data will be presented to ACE in late May.

Rapid Response Action Update

Katy Weeks (AMEC) presented an update of the RRA.

- Water management continues pending the completion of a diversionary structure and one more confirmation sample in collected pad runoff.
- RRA Mortar Target 9 and Former H Range draft Soil Contamination Delineation Report was submitted to the agencies on 4/20.
- Grain Size Analysis for the Soil Washing Process Confirmation/Optimization summary is due Monday, 4/30. Completion of Work Report for RRA Group 1 is due to agencies 5/01.
- Upcoming activities include contracting for UXO clearance, soil removal, and site restoration at Mortar Target 9.

Groundwater Study

John Rice (AMEC) presented an update of the groundwater study. A one page summary was distributed.

- Installation of monitor well MW-166 (J1P-7) and MW-167 (BA-1) will be completed this week. Screen selections for MW-166 followed the tech meeting (15-25 ft bwt, 40-50 ft bwt, 108-113 ft bwt). Screen selections for MW-167 will probably be conducted tomorrow, 4/27.
- Next week, may commence drilling K Range well (however, location has not been finalized). Other possible wells left to drill include J1P-6 and SAR well. Todd Borci (EPA) indicated that discussions later in the Tech meeting should finalize K Range and other locations.
- Commenced May LTM groundwater sampling round, third sampling round of supplemental Impact Area Response wells, and sampling of newly installed J Range Wells. Sampling of the LTM round wells and new J-Range wells will continue next week.
- UXO avoidance was continued at the GA/GB, Cleared Area 4, and Former C Range grids this week. Next week, UXO avoidance will be continued at J-3 Range locations.
- No vegetation removal was conducted this week; vegetation removal may be conducted for the K Range well location next week.
- The following data table was distributed: 1) Post Detonation Soil Sample and Stage III Supplemental Grid. Plan view maps showing the BIP grids relative to the BIP crater for last week's results for the J1 Range BIP and this week's P-19 Drill Pad 105mm round BIP. The table showed confirmed detections of TNT, HMX and RDX for the supplemental P-19 BIP grid at 0-3 inches. Because this is the third sampling grid, it may be possible that the detections reflect residual contamination from a source other than the BIP. The need for additional sampling will be discussed with the Guard/ACE.
- Marc Grant (AMEC) indicated that the explosive analysis for trench soil samples and stock pile soil samples at the J1P-6 trench were non-detect. The results for the other analyses are expected Friday or Monday.
- Old Snake Pond Road residence well has not been sampled. Samples will be split with AFCEE for explosive and perchlorate analysis. Sampling schedule is not known, but is being coordinated with AFCEE - may be a permission issue.
- Len Pinaud (MADEP) inquired about sampling of other residential wells in the area. Car Lane well has been sampled and is non-detect. Thompson Lane residential wells were discussed. Ken Gaynor (Jacobs) offered to obtain information from the AFCEE database regarding what wells had been sampled in the past, well screens, etc. Mr. Pinaud to provide plan view and cross sections.
- Mike Jasinski (EPA) explained that the Wampanoag Tribe needed to be kept in the loop regarding drilling locations so that they could approve RECs. Mark Harding (Wampanoag Tribe representative) should be provided a chart of new wells that are going in as part of the REC process. Mr. Harding typically was able to provide feedback fairly quickly on proposed locations.

Priority List of Proposed Central Impact Area Wells

Jay Clausen (AMEC) led discussion of prioritization of drilling additional response wells to delineate the Central Impact Area Groundwater Plume. Todd Borci (EPA) suggested that wells be approved in blocks of four at a time. Mr. Clausen developed a list of 8 proposed wells for the first round, as follows:

1. Downgradient of MW-135 on Monument Rd.
2. Downgradient of MW-108.
3. Downgradient of MW-23.
4. North of MW-50 on Burgoyne near Bailey's Pond.
5. North of MW-96, 300-500 feet.
6. North of MW-113, Four Corners Area.
7. Between MW-22 and MW-135.
8. Between MW-135 and MW-110.

Mr. Borci agreed with four of these locations on this list in the following order: 6 (likely easiest

access) , 5, 2, and 3. Two additional alternative locations Mr. Borci preferred included:
9. Southeast of MW-25, between MW-25 and MW-104 and just downgradient of targets.
10. Between MW-86 and MW-97 on Wood Road.
The Guard agreed to consider these locations.

Proposed Demo 1 Well

Marc Grant (AMEC) distributed a proposed location map for D1P-5.

- Map showed projected RDX plume boundaries up to Frank Perkins Road based on latest data.
- D1P-5 location was proposed to be at the southern edge of RDX plume.
- Perchlorate results are not available for MW-162, yet.
- Todd Borci (EPA) suggested that the REC be prepared for the current proposed D1P-5 location. This location could be adjusted north or south based on the Perchlorate results for MW-162.
- Mr. Borci requested that a proposed location for D1P-6 on Pew Road be presented next week.

Former K Range Well

Ben Gregson (IAGWSPO) led the discussion on the proposed monitor well location at the K Range.

- Preliminary soil sample results show two separate areas of detections. RDX and HMX were detected in one target area; HMX was detected in a separate target area.
- A well location downgradient of these areas of detections instead of at the source is proposed by the Guard.
- Todd Borci (EPA) indicated that Mike Ciaranca (MAARNG) had expressed concern regarding the extensive area of clearance (currently proposed 800 ft access road) for well and soil grids. Mr. Borci had explained that vegetation clearance would not be needed for the soil grids.
- Mr. Borci felt that the K Range well should be in a source area and that more soil quality data needed to be collected to select a well location.
- John Rice (AMEC) pointed out that installation of a well at one of the targets would require greater than 1,000 linear foot of roadway. Access roads to the former K Range had all been overgrown.
- Dave Hill (IAGWSPO) pointed out that regardless of the additional soil data, a well could be installed either at one source or downgradient of the general source areas. A downgradient well had the advantage of monitoring the general area of detections downgradient of the targets to see if there was a larger problem for the former K Range and it could be placed on Wood Road and therefore minimize vegetation removal.
- Mr. Rice indicated that the well was scoped to be a maximum 250 feet bwt - which would probably be to bedrock.
- Mr. Borci agreed with the proposed location, indicating that it had the additional appeal of being adjacent to the target area of another old range on the north side of Wood Road.

Document /Schedule Status Update

Marc Grant (AMEC) provided the update on document and schedule status, distributing a one page table, 3-month Lookahead schedule, and a table outlining the scheduling issues.

Highlights of the document/schedule status were reviewed as follows:

- TM 99-5 Background Groundwater. Guard is waiting for USGS written comments. Todd Borci (EPA) indicated that the finalized document should reflect the USGS comments. Don Walter (USGS) to check with Dennis LeBlanc (USGS) on status of comments.
- TM 01-1 Soil Background Proposal. Letter proposing additional work has been sent to the

agencies. A Workplan for collecting additional soil background data is being submitted to ACE and the Guard today.

- J-2 Additional Delineation Work Plan. Looking for approval of MOR.
- Demo 1 Establish Soil COCs. On hold.
- TM 01-8 J-2 Range Draft Report RCL. Sent out 4/24.
- TM 01-7 UXO Interim Screening Report. Mr. Borci indicated that this report has been received, future deadlines have been erased. EPA will set new deadlines when response to Report is prepared.
- 2001 LTGM Plan Appendix B. Appendix B and MOR will be sent out tomorrow.
- A possible extension request for the HUTA 1 Report was discussed. Later in the meeting it was agreed that this report would be completed in accordance with the approved schedule, using the data available to date. In a follow-up email, Ben Gregson (IAGWSPO) indicated that the Guard intended to send a letter to EPA requesting that the deliverable for 5/18 be considered an Interim Report.
- Extension approvals were received from EPA on yellow highlighted documents; the affected deadlines will change per the letter.
- J1J3L Range Additional Delineation Planning. Will submit letter detailing areas proposed to be included in 5/31 Work Plan.
- Phase IIb Schedule will be impacted by K Range delays unless want to separate that range out. Mr. Borci indicated that he would prefer to keep all Phase IIb sites together.
- Schedule for RRA Group 2 sites was removed. Issues remain unresolved on how Former H Range will be handled. Mr. Borci reaffirmed that delineation sampling should be progressing so that it can be completed by June 1st. Heather Sullivan (ACE) indicated that a Corps contractor can be on board to begin field work in early June. Len Pinaud (MADEP) suggested that following the tech meeting, Todd Borci (EPA), Ben Gregson (IAGWSPO) and Mr. Pinaud should talk to property owner about access feasibility after 6/1. Mr. Borci/Mr. Pinaud also felt that there should be restricted access to the Former H Range area by campers.
- Training Areas Investigation has been tentatively scheduled for a 13 week delay, based on receipt of comments from agencies in the near future.
- Phase IIb Investigations has been tentatively scheduled for a 10 week delay (2 weeks added for Former K Range delays). An official request won't be made until closer to the 6/18 deadline.

PCN Sampling Plan Discussion

Marc Grant (AMEC) led a discussion on the technical approach for PCN sampling.

- Todd Borci (EPA) indicated that the analytical method for PCNs per the Guard's 3/26 letter was acceptable, still waiting on input on the proposed risk-based DQO's.
- Jane Dolan (EPA) indicated that additional grids should be proposed in areas identified by PCN TICS but also in areas where presence of PCNs could be inferred from Pesticide analysis interferences. In addition to its use as an inert filler for mortar and artillery rounds, the data also indicated that Halowax may have been used in 2.36-inch and LAW rockets. There also may be additional comments on the data validation criteria once it is established.
- Two, one-page handouts that presented preliminary PCN Sampling Plans for Demo Areas 1 and 2 and the Central Impact Area were reviewed as examples to get the agencies approval on the technical approach.
- A letter format Work Plan was proposed with a separate attachment for each area targeted for sampling, including background. J-Range sampling would be included with the J Ranges Delineation Work Plans. PCN sampling in BIP areas would be added to the UXO sampling plan.
- The design of the sampling plan for Demo Areas 1 and 2 was based on the assumption that

aerial dispersion of the inert filler out from a detonation crater is the most likely potential release mechanism. The standard 5 point square grids sampled at 0-3 inches would be used to assess PCNs in soil from the Demo Areas.

- The design of the sampling plan for the Central Impact Area was based on the assumption that the highest number of inert rounds would have been targeted in areas where the highest number of all rounds were found. The inert filler could be dispersed if impacted by an HE Round or blown in place. Therefore, as in Demo areas, aerial dispersion is the most likely release mechanism. A composite sample from a standard ring grid sampled at 0-3 inches would be used to access PCNs around Targets in the Central Impact Area.
- Mr. Borci and Ms. Dolan indicated that additional research on the use of inert rounds in the Central Impact should be conducted rather than assuming that the distribution of the inert round use would be the same as the active rounds.
- Ms. Dolan inquired as to why sampling had been limited to the 0-3 inch interval. Jay Clausen (AMEC) pointed out that the solubility of Halowax is extremely low, and that they would not be expected to readily infiltrate with rainwater into the soil. Herb Colby (AMEC) confirmed that some PCNs had been detected below 3 inches in the J-2 Range soil samples. Mr. Grant explained that the proposed sampling protocol primarily addressed the distribution of PCNs expected to result from aerial dispersion rather than leakage from an exposed/cracked round on the ground.
- Comparison would be done between results of proposed PCN analysis and SVOC TIC analysis to see if the SVOC TIC method was reliable for accomplishing preliminary screening of areas for PCNs.

Miscellaneous

- Jane Dolan (EPA) requested that two OB/OD areas identified by ASR Interview Witness #9 be added to the Phase IIb investigation. Witness #9 provided a map showing suspected locations of these areas.
- Ben Gregson (IAGWSPO) indicated that he, Ray Cottengaim, Mike Minior (AFCEE), and Don Mahoney had discussed right of entry issues with the property owner regarding the spit well, this week. Resolution of this issue was anticipated for today. John Rice (AMEC) indicated that the drill rig modified for installing this well was guaranteed to be ready by 5/8.
- Todd Borci (EPA) requested that a particle track be modeled for J1P-5 to see if it tracks near the northern extent of the Central Impact Area plume.
- Chris Johnson's (ACE) responsibilities will be assumed by Eli Kangas (ACE).
- John Conseletti (Tetra Tech) has accepted a position in Santa Barbara.

IART Debrief and Discussions on HUTA 1 followed the Tech meeting.

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:

- The groundwater profile samples from MW-166 had detections of acetone (14 intervals), MEK (2 intervals), chloroform (13 intervals), HMX (2 intervals) and RDX (13 intervals). The RDX and HMX detections were verified by PDA spectra.
- The groundwater profile samples from MW-167 had detections of tetryl (1 interval), trinitrobenzene (1 interval), dinitrobenzene (1 interval), 2,4-DNT (1 interval), 2,6-DNT (1 interval), 2A-DNT (1 interval), 2,4-diamino-6-nitrotoluene (1 interval), nitrobenzene (2 intervals), nitroglycerin (2 intervals), picric acid (4 intervals), 3-nitrotoluene (2 intervals), 4-nitrotoluene (2 intervals), TNT (1 interval) and RDX (2 intervals). The nitrobenzene and RDX detections were verified by PDA spectra.

3. DELIVERABLES SUBMITTED

Draft Rapid Response Action Round 2 Delineation Report	04/20/01
Weekly Progress Update, April 2 – April 6	04/23/01
Weekly Progress Update, April 9 – April 13	04/23/01

4. SCHEDULED ACTIONS

Scheduled actions for the week of April 30 include well installation of MW-166 (J1P-7) and MW-167 (BA-1); commence drilling MW-168 (J1P-6), continue development and sampling of newly installed wells, continue sampling Long Term Groundwater Monitoring 2001 and third round sampling of Central Impact Area Supplemental Response wells, and continue sampling of Phase IIb and J-3 Range soil grids.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

The Draft Soil Report is being prepared. New Demo 1 wells MW-162 and MW-165 were developed and will be sampled next week. An additional downgradient well location, D1P-5, has been proposed; other locations are under consideration. Analysis of second round groundwater samples from newly installed wells is ongoing.

TABLE 2
 SAMPLING PROGRESS
 4/21/2001-4/27/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDA040501AA	A040501	04/27/2001	CRATER GRAB	0.00	0.25		
G166DQE	FIELDQC	04/24/2001	FIELDQC	0.00	0.00		
G166DQT	FIELDQC	04/24/2001	FIELDQC	0.00	0.00		
G167DCE	FIELDQC	04/25/2001	FIELDQC	0.00	0.00		
HD136E1AAE	FIELDQC	04/26/2001	FIELDQC	0.00	0.00		
HD143F1AAE	FIELDQC	04/27/2001	FIELDQC	0.00	0.00		
HD143L1AAE	FIELDQC	04/23/2001	FIELDQC	0.00	0.00		
HD143P1AAE	FIELDQC	04/24/2001	FIELDQC	0.00	0.00		
HD143Y1AAE	FIELDQC	04/25/2001	FIELDQC	0.00	0.00		
HDA040501AE	FIELDQC	04/27/2001	FIELDQC	0.00	0.00		
W10DDT	FIELDQC	04/26/2001	FIELDQC	0.00	0.00		
W154SST	FIELDQC	04/27/2001	FIELDQC	0.00	0.00		
W18M1T	FIELDQC	04/25/2001	FIELDQC	0.00	0.00		
W108M3A	MW-108	04/24/2001	GROUNDWATER	262.00	272.00	95.46	105.46
W108M4A	MW-108	04/24/2001	GROUNDWATER	240.00	250.00	73.46	83.46
W109SSA	MW-109	04/26/2001	GROUNDWATER	89.00	99.00	0.00	10.00
W10DDA	MW-10	04/26/2001	GROUNDWATER	351.00	361.00	198.40	208.40
W110M1A	MW-110	04/24/2001	GROUNDWATER	316.00	326.00	139.00	149.00
W110M2A	MW-110	04/24/2001	GROUNDWATER	248.00	258.00	72.50	82.50
W110M3A	MW-110	04/24/2001	GROUNDWATER	220.00	230.00	44.50	54.50
W110M3D	MW-110	04/24/2001	GROUNDWATER	220.00	230.00	44.50	54.50
W111M1A	MW-111	04/25/2001	GROUNDWATER	224.00	234.00	88.00	98.00
W111M2A	MW-111	04/25/2001	GROUNDWATER	182.00	192.00	46.10	56.10
W111M3A	MW-111	04/25/2001	GROUNDWATER	165.00	175.00	29.10	39.10
W123M1A	MW-123	04/25/2001	GROUNDWATER	291.00	301.00	148.50	158.50
W123M2A	MW-123	04/25/2001	GROUNDWATER	236.00	246.00	93.40	103.40
W124M1A	MW-124	04/25/2001	GROUNDWATER	234.00	244.00	99.20	109.20
W124M2A	MW-124	04/25/2001	GROUNDWATER	219.00	229.00	84.30	94.30
W124M3A	MW-124	04/25/2001	GROUNDWATER	160.00	170.00	25.30	35.30
W124M3D	MW-124	04/25/2001	GROUNDWATER	160.00	170.00	25.30	35.30
W134M1A	MW-134	04/24/2001	GROUNDWATER	250.00	260.00	113.90	123.90
W134M2A	MW-134	04/24/2001	GROUNDWATER	170.00	180.00	24.08	34.08
W135M1A	MW-135	04/26/2001	GROUNDWATER	319.00	329.00	129.40	139.40
W135M2A	MW-135	04/26/2001	GROUNDWATER	280.00	290.00	90.10	100.10
W135M3A	MW-135	04/27/2001	GROUNDWATER	239.00	249.00	49.10	59.10
W138M1A	MW-138	04/26/2001	GROUNDWATER	253.00	263.00	128.50	138.50
W138M2A	MW-138	04/24/2001	GROUNDWATER	151.00	161.00	27.25	37.25
W138M3A	MW-138	04/24/2001	GROUNDWATER	135.00	145.00	11.55	21.55
W138M3D	MW-138	04/24/2001	GROUNDWATER	135.00	145.00	11.55	21.55
W141M1A	MW-141	04/27/2001	GROUNDWATER	190.00	200.00	59.30	69.30
W154M1A	MW-154	04/27/2001	GROUNDWATER	187.00	192.00	88.00	93.00
W154SSA	MW-154	04/26/2001	GROUNDWATER	98.00	108.00	0.00	10.00
W16SSA	MW-16	04/26/2001	GROUNDWATER	125.00	135.00	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
 4/21/2001-4/27/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W18M1A	MW-18	04/25/2001	GROUNDWATER	166.00	176.00	120.40	130.40
W18M2A	MW-18	04/25/2001	GROUNDWATER	102.00	112.00	56.40	66.40
W23DDA	MW-23	04/26/2001	GROUNDWATER	272.00	282.00	141.40	151.40
W23M1A	MW-23	04/27/2001	GROUNDWATER	225.00	235.00	94.50	104.50
W23M2A	MW-23	04/26/2001	GROUNDWATER	189.00	194.00	58.40	63.40
W23M2D	MW-23	04/26/2001	GROUNDWATER	189.00	194.00	58.40	63.40
W35M1A	MW-35	04/27/2001	GROUNDWATER	155.00	165.00	64.30	74.30
W35M2A	MW-35	04/27/2001	GROUNDWATER	100.00	110.00	9.40	19.40
W35SSA	MW-35	04/27/2001	GROUNDWATER	84.00	94.00	0.00	10.00
DW042501	GAC WATER	04/25/2001	IDW				
DW042601	GAC WATER	04/26/2001	IDW				
G166DGA	MW-166	04/25/2001	PROFILE	180.00	180.00	70.00	70.00
G166DHA	MW-166	04/25/2001	PROFILE	190.00	190.00	80.00	80.00
G166DIA	MW-166	04/25/2001	PROFILE	200.00	200.00	90.00	90.00
G166DJA	MW-166	04/25/2001	PROFILE	210.00	210.00	100.00	100.00
G166DKA	MW-166	04/25/2001	PROFILE	220.00	220.00	110.00	110.00
G166DLA	MW-166	04/25/2001	PROFILE	230.00	230.00	120.00	120.00
G166DMA	MW-166	04/25/2001	PROFILE	240.00	240.00	130.00	130.00
G166DNA	MW-166	04/25/2001	PROFILE	250.00	250.00	140.00	140.00
G166DOA	MW-166	04/25/2001	PROFILE	260.00	260.00	150.00	150.00
G166DPA	MW-166	04/25/2001	PROFILE	270.00	270.00	160.00	160.00
G166DQA	MW-166	04/24/2001	PROFILE	280.00	280.00	170.00	170.00
G166DQD	MW-166	04/24/2001	PROFILE	280.00	280.00	170.00	170.00
G166DRA	MW-166	04/24/2001	PROFILE	290.00	290.00	180.00	180.00
G166DSA	MW-166	04/24/2001	PROFILE	300.00	300.00	190.00	190.00
G166DTA	MW-166	04/24/2001	PROFILE	310.00	310.00	200.00	200.00
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80
G167DBA	MW-167	04/24/2001	PROFILE	100.00	100.00	13.80	13.80
G167DCA	MW-167	04/25/2001	PROFILE	110.00	110.00	23.80	23.80
G167DDA	MW-167	04/25/2001	PROFILE	120.00	120.00	33.80	33.80
PA-C003701-702		04/25/2001	PROFILE	90.00	95.00		
PA-C003703-704		04/25/2001	PROFILE	100.00	105.00		
PA-C003801-802		04/25/2001	PROFILE	110.00	115.00		
PA-C003805-806		04/25/2001	PROFILE	120.00	125.00		
PA-C003901-902		04/25/2001	PROFILE	130.00	135.00		
PA-C003903-904		04/25/2001	PROFILE	140.00	145.00		
HC136N1AAA	136N	04/27/2001	SOIL GRID	0.00	0.50		
HC136N1BAA	136N	04/27/2001	SOIL GRID	1.50	2.00		
HC141A1AAA	141A	04/27/2001	SOIL GRID	0.00	0.25		
HC141A1BAA	141A	04/27/2001	SOIL GRID	0.25	0.50		
HC141A1CAA	141A	04/27/2001	SOIL GRID	0.50	1.00		
HC141A1CAD	141A	04/27/2001	SOIL GRID	0.50	1.00		
HC143P1AAA	143P	04/24/2001	SOIL GRID	0.00	0.50		
HC143P1BAA	143P	04/24/2001	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
 4/21/2001-4/27/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC143Q1AAA	143Q	04/27/2001	SOIL GRID	0.00	0.50		
HC143Q1BAA	143Q	04/27/2001	SOIL GRID	1.50	2.00		
HC143Q1BAD	143Q	04/27/2001	SOIL GRID	1.50	2.00		
HC143R1AAA	143R	04/24/2001	SOIL GRID	0.00	0.50		
HC143R1BAA	143R	04/24/2001	SOIL GRID	1.50	2.00		
HC143S1AAA	143S	04/25/2001	SOIL GRID	0.00	0.50		
HC143S1BAA	143S	04/25/2001	SOIL GRID	1.50	2.00		
HC143S1BAD	143S	04/25/2001	SOIL GRID	1.50	2.00		
HC143T1AAA	143T	04/24/2001	SOIL GRID	0.00	0.50		
HC143T1BAA	143T	04/24/2001	SOIL GRID	1.50	2.00		
HC143U1AAA	143U	04/24/2001	SOIL GRID	0.00	0.50		
HC143U1BAA	143U	04/24/2001	SOIL GRID	1.50	2.00		
HC143V1AAA	143V	04/25/2001	SOIL GRID	0.00	0.50		
HC143V1AAD	143V	04/25/2001	SOIL GRID	0.00	0.50		
HC143V1BAA	143V	04/25/2001	SOIL GRID	1.50	2.00		
HC143W1AAA	143W	04/25/2001	SOIL GRID	0.00	0.50		
HC143W1BAA	143W	04/25/2001	SOIL GRID	1.50	2.00		
HC143X1AAA	143X	04/25/2001	SOIL GRID	0.00	0.50		
HC143X1BAA	143X	04/25/2001	SOIL GRID	1.50	2.00		
HC143Y1AAA	143Y	04/25/2001	SOIL GRID	0.00	0.50		
HC143Y1BAA	143Y	04/25/2001	SOIL GRID	1.50	2.00		
HC143Y1BAD	143Y	04/25/2001	SOIL GRID	1.50	2.00		
HD136D1AAA	136D	04/26/2001	SOIL GRID	0.00	0.50		
HD136D1BAA	136D	04/26/2001	SOIL GRID	1.50	2.00		
HD136D1BAD	136D	04/26/2001	SOIL GRID	1.50	2.00		
HD136E1AAA	136E	04/26/2001	SOIL GRID	0.00	0.50		
HD136E1BAA	136E	04/26/2001	SOIL GRID	1.50	2.00		
HD136F1AAA	136F	04/26/2001	SOIL GRID	0.00	0.50		
HD136F1BAA	136F	04/26/2001	SOIL GRID	1.50	2.00		
HD136G1AAA	136G	04/26/2001	SOIL GRID	0.00	0.50		
HD136G1BAA	136G	04/26/2001	SOIL GRID	1.50	2.00		
HD136H1AAA	136H	04/26/2001	SOIL GRID	0.00	0.50		
HD136H1BAA	136H	04/26/2001	SOIL GRID	1.50	2.00		
HD136I1AAA	136I	04/26/2001	SOIL GRID	0.00	0.50		
HD136I1BAA	136I	04/26/2001	SOIL GRID	1.50	2.00		
HD136I1BAD	136I	04/26/2001	SOIL GRID	1.50	2.00		
HD136K1AAA	136K	04/26/2001	SOIL GRID	0.00	0.50		
HD136K1BAA	136K	04/26/2001	SOIL GRID	1.50	2.00		
HD141A1AAA	141A	04/27/2001	SOIL GRID	0.00	0.25		
HD141A1BAA	141A	04/27/2001	SOIL GRID	0.25	0.50		
HD141A1CAA	141A	04/27/2001	SOIL GRID	0.50	1.00		
HD143F1AAA	143F	04/27/2001	SOIL GRID	0.00	0.50		
HD143F1BAA	143F	04/27/2001	SOIL GRID	1.50	2.00		
HD143L1AAA	143L	04/23/2001	SOIL GRID	0.00	0.50		

Profiling methods include: Volatiles and Explosives

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TABLE 2
 SAMPLING PROGRESS
 4/21/2001-4/27/2001

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD143L1BAA	143L	04/23/2001	SOIL GRID	1.50	2.00		
HD143M1AAA	143M	04/23/2001	SOIL GRID	0.00	0.50		
HD143M1BAA	143M	04/23/2001	SOIL GRID	1.50	2.00		
HD143N1AAA	143N	04/23/2001	SOIL GRID	0.00	0.50		
HD143N1BAA	143N	04/23/2001	SOIL GRID	1.50	2.00		
HD143O1AAA	143O	04/23/2001	SOIL GRID	0.00	0.50		
HD143O1BAA	143O	04/23/2001	SOIL GRID	1.50	2.00		
HD143O1BAD	143O	04/23/2001	SOIL GRID	1.50	2.00		
HD143P1AAA	143P	04/24/2001	SOIL GRID	0.00	0.50		
HD143P1BAA	143P	04/24/2001	SOIL GRID	1.50	2.00		
HD143Q1AAA	143Q	04/27/2001	SOIL GRID	0.00	0.50		
HD143Q1BAA	143Q	04/27/2001	SOIL GRID	1.50	2.00		
HD143R1AAA	143R	04/24/2001	SOIL GRID	0.00	0.50		
HD143R1BAA	143R	04/24/2001	SOIL GRID	1.50	2.00		
HD143S1AAA	143S	04/25/2001	SOIL GRID	0.00	0.50		
HD143S1BAA	143S	04/25/2001	SOIL GRID	1.50	2.00		
HD143T1AAA	143T	04/24/2001	SOIL GRID	0.00	0.50		
HD143T1BAA	143T	04/24/2001	SOIL GRID	1.50	2.00		
HD143U1AAA	143U	04/24/2001	SOIL GRID	0.00	0.50		
HD143U1BAA	143U	04/24/2001	SOIL GRID	1.50	2.00		
HD143V1AAA	143V	04/25/2001	SOIL GRID	0.00	0.50		
HD143V1BAA	143V	04/25/2001	SOIL GRID	1.50	2.00		
HD143W1AAA	143W	04/25/2001	SOIL GRID	0.00	0.50		
HD143W1BAA	143W	04/25/2001	SOIL GRID	1.50	2.00		
HD143X1AAA	143X	04/25/2001	SOIL GRID	0.00	0.50		
HD143X1BAA	143X	04/25/2001	SOIL GRID	1.50	2.00		
HD143Y1AAA	143Y	04/25/2001	SOIL GRID	0.00	0.50		
HD143Y1BAA	143Y	04/25/2001	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

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BWTE = Depth below water table, end depth, measured in feet

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/7/01-4/27/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G166DCA	MW-166	04/20/2001	PROFILE	140.00	140.00	30.00	30.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DCA	MW-166	04/20/2001	PROFILE	140.00	140.00	30.00	30.00	8330N	OCTAHYDRO-1,3,5,7-TETRANIT	YES
G166DCD	MW-166	04/20/2001	PROFILE	140.00	140.00	30.00	30.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DCD	MW-166	04/20/2001	PROFILE	140.00	140.00	30.00	30.00	8330N	OCTAHYDRO-1,3,5,7-TETRANIT	YES
G166DDA	MW-166	04/20/2001	PROFILE	150.00	150.00	40.00	40.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DDA	MW-166	04/20/2001	PROFILE	150.00	150.00	40.00	40.00	8330N	OCTAHYDRO-1,3,5,7-TETRANIT	YES
G166DFA	MW-166	04/20/2001	PROFILE	170.00	170.00	60.00	60.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DFD	MW-166	04/20/2001	PROFILE	170.00	170.00	60.00	60.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DGA	MW-166	04/25/2001	PROFILE	180.00	180.00	70.00	70.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DGA	MW-166	04/25/2001	PROFILE	180.00	180.00	70.00	70.00	OC21V	ACETONE	
G166DHA	MW-166	04/25/2001	PROFILE	190.00	190.00	80.00	80.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DHA	MW-166	04/25/2001	PROFILE	190.00	190.00	80.00	80.00	OC21V	ACETONE	
G166DHA	MW-166	04/25/2001	PROFILE	190.00	190.00	80.00	80.00	OC21V	CHLOROFORM	
G166DHA	MW-166	04/25/2001	PROFILE	190.00	190.00	80.00	80.00	OC21V	METHYL ETHYL KETONE (2-BUT	
G166DIA	MW-166	04/25/2001	PROFILE	200.00	200.00	90.00	90.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DIA	MW-166	04/25/2001	PROFILE	200.00	200.00	90.00	90.00	OC21V	ACETONE	
G166DIA	MW-166	04/25/2001	PROFILE	200.00	200.00	90.00	90.00	OC21V	CHLOROFORM	
G166DJA	MW-166	04/25/2001	PROFILE	210.00	210.00	100.00	100.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DJA	MW-166	04/25/2001	PROFILE	210.00	210.00	100.00	100.00	OC21V	ACETONE	
G166DJA	MW-166	04/25/2001	PROFILE	210.00	210.00	100.00	100.00	OC21V	CHLOROFORM	
G166DKA	MW-166	04/25/2001	PROFILE	220.00	220.00	110.00	110.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DKA	MW-166	04/25/2001	PROFILE	220.00	220.00	110.00	110.00	OC21V	ACETONE	
G166DKA	MW-166	04/25/2001	PROFILE	220.00	220.00	110.00	110.00	OC21V	CHLOROFORM	
G166DKA	MW-166	04/25/2001	PROFILE	220.00	220.00	110.00	110.00	OC21V	METHYL ETHYL KETONE (2-BUT	
G166DLA	MW-166	04/25/2001	PROFILE	230.00	230.00	120.00	120.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DLA	MW-166	04/25/2001	PROFILE	230.00	230.00	120.00	120.00	OC21V	ACETONE	
G166DLA	MW-166	04/25/2001	PROFILE	230.00	230.00	120.00	120.00	OC21V	CHLOROFORM	
G166DMA	MW-166	04/25/2001	PROFILE	240.00	240.00	130.00	130.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DMA	MW-166	04/25/2001	PROFILE	240.00	240.00	130.00	130.00	OC21V	ACETONE	
G166DMA	MW-166	04/25/2001	PROFILE	240.00	240.00	130.00	130.00	OC21V	CHLOROFORM	
G166DNA	MW-166	04/25/2001	PROFILE	250.00	250.00	140.00	140.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DNA	MW-166	04/25/2001	PROFILE	250.00	250.00	140.00	140.00	OC21V	ACETONE	
G166DNA	MW-166	04/25/2001	PROFILE	250.00	250.00	140.00	140.00	OC21V	CHLOROFORM	

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

SBD = SAMPLE COLLECTION BEGIN DEPTH IN FEET BGS

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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 4/7/01-4/27/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G166DOA	MW-166	04/25/2001	PROFILE	260.00	260.00	150.00	150.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DOA	MW-166	04/25/2001	PROFILE	260.00	260.00	150.00	150.00	OC21V	ACETONE	
G166DOA	MW-166	04/25/2001	PROFILE	260.00	260.00	150.00	150.00	OC21V	CHLOROFORM	
G166DPA	MW-166	04/25/2001	PROFILE	270.00	270.00	160.00	160.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G166DPA	MW-166	04/25/2001	PROFILE	270.00	270.00	160.00	160.00	OC21V	ACETONE	
G166DPA	MW-166	04/25/2001	PROFILE	270.00	270.00	160.00	160.00	OC21V	CHLOROFORM	
G166DQA	MW-166	04/24/2001	PROFILE	280.00	280.00	170.00	170.00	OC21V	ACETONE	
G166DQA	MW-166	04/24/2001	PROFILE	280.00	280.00	170.00	170.00	OC21V	CHLOROFORM	
G166DQD	MW-166	04/24/2001	PROFILE	280.00	280.00	170.00	170.00	OC21V	ACETONE	
G166DQD	MW-166	04/24/2001	PROFILE	280.00	280.00	170.00	170.00	OC21V	CHLOROFORM	
G166DRA	MW-166	04/24/2001	PROFILE	290.00	290.00	180.00	180.00	OC21V	ACETONE	
G166DRA	MW-166	04/24/2001	PROFILE	290.00	290.00	180.00	180.00	OC21V	CHLOROFORM	
G166DSA	MW-166	04/24/2001	PROFILE	300.00	300.00	190.00	190.00	OC21V	ACETONE	
G166DSA	MW-166	04/24/2001	PROFILE	300.00	300.00	190.00	190.00	OC21V	CHLOROFORM	
G166DTA	MW-166	04/24/2001	PROFILE	310.00	310.00	200.00	200.00	OC21V	ACETONE	
G166DTA	MW-166	04/24/2001	PROFILE	310.00	310.00	200.00	200.00	OC21V	CHLOROFORM	
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	1,3,5-TRINITROBENZENE	NO
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	1,3-DINITROBENZENE	NO
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	2,4-DINITROTOLUENE	NO
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	2,6-DINITROTOLUENE	NO
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	3-NITROTOLUENE	NO
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	4-NITROTOLUENE	NO
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	NITROBENZENE	YES
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	NITROGLYCERIN	NO
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	PICRIC ACID	NO
G167DAA	MW-167	04/24/2001	PROFILE	90.00	90.00	3.80	3.80	8330N	TETRYL	NO
G167DBA	MW-167	04/24/2001	PROFILE	100.00	100.00	13.80	13.80	8330N	2,4,6-TRINITROTOLUENE	NO
G167DBA	MW-167	04/24/2001	PROFILE	100.00	100.00	13.80	13.80	8330N	2,4-DIAMINO-6-NITROTOLUENE	NO
G167DBA	MW-167	04/24/2001	PROFILE	100.00	100.00	13.80	13.80	8330N	3-NITROTOLUENE	NO
G167DBA	MW-167	04/24/2001	PROFILE	100.00	100.00	13.80	13.80	8330N	4-NITROTOLUENE	NO
G167DBA	MW-167	04/24/2001	PROFILE	100.00	100.00	13.80	13.80	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G167DBA	MW-167	04/24/2001	PROFILE	100.00	100.00	13.80	13.80	8330N	NITROBENZENE	YES

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DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/7/01-4/27/01

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G167DBA	MW-167	04/24/2001	PROFILE	100.00	100.00	13.80	13.80	8330N	PICRIC ACID	NO
G167DCA	MW-167	04/25/2001	PROFILE	110.00	110.00	23.80	23.80	8330N	3-NITROTOLUENE	NO
G167DCA	MW-167	04/25/2001	PROFILE	110.00	110.00	23.80	23.80	8330N	4-NITROTOLUENE	NO
G167DCA	MW-167	04/25/2001	PROFILE	110.00	110.00	23.80	23.80	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
G167DCA	MW-167	04/25/2001	PROFILE	110.00	110.00	23.80	23.80	8330N	PICRIC ACID	NO
G167DDA	MW-167	04/25/2001	PROFILE	120.00	120.00	33.80	33.80	8330N	NITROGLYCERIN	NO
G167DDA	MW-167	04/25/2001	PROFILE	120.00	120.00	33.80	33.80	8330N	PICRIC ACID	NO

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

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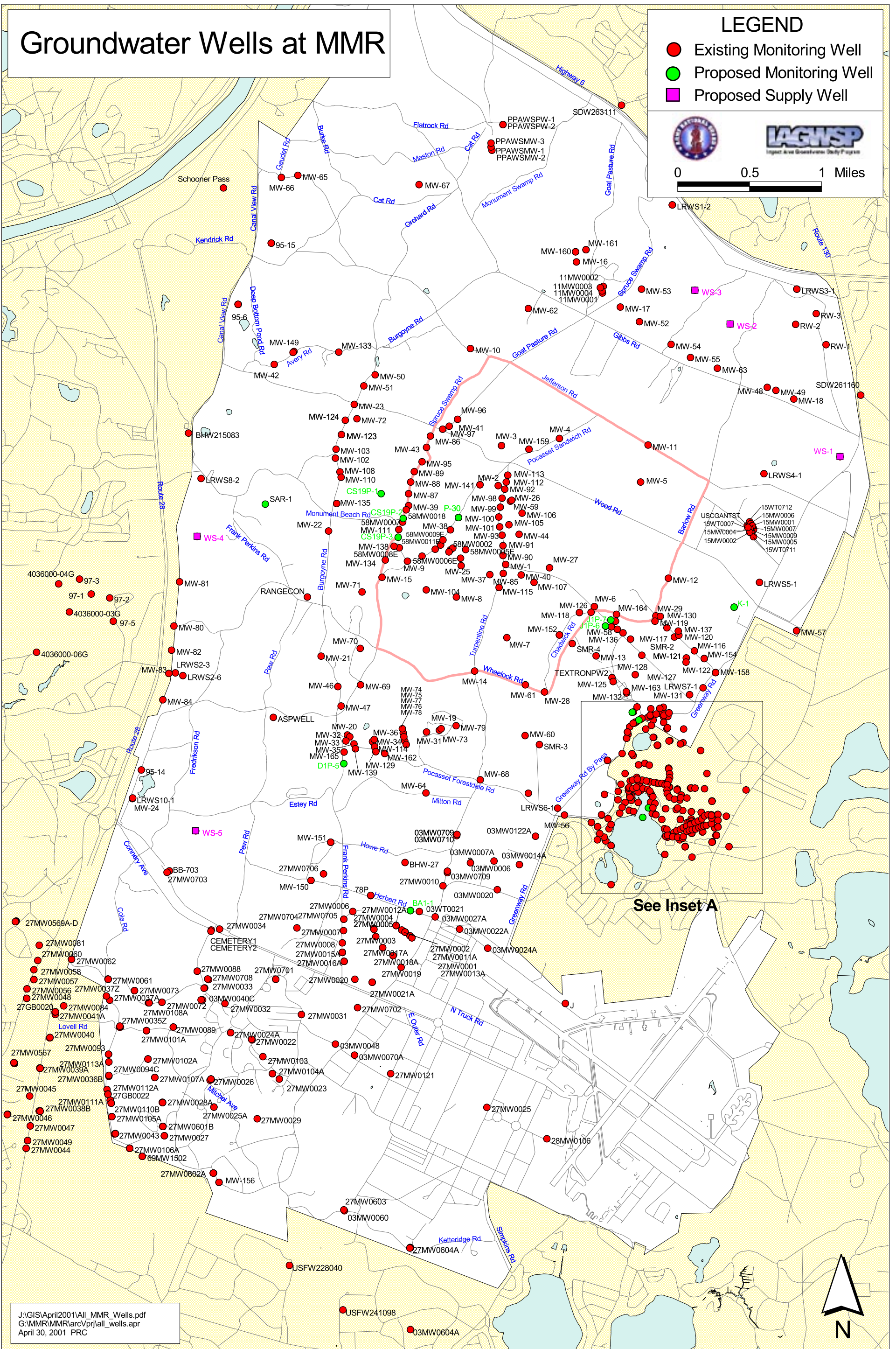
Groundwater Wells at MMR

LEGEND

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



0 0.5 1 Miles



J:\GIS\April2001\All_MMR_Wells.pdf
G:\MMR\MMR\arcvprj\all_wells.apr
April 30, 2001 PRC



