WEEKLY PROGRESS UPDATE
FOR NOVEMBER 17 – NOVEMBER 21, 2003

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 and 1-2000-0014

MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from November 17 through November 21, 2003.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of November 21 is summarized in Table 1.

Table 1. Drilling progress as of November 21, 2003

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
EW-274	Demo Area 1 (EW-D1-1)	203	113	
MW-295	J-3 Range (J3P-33)	296	199	
MW-296	J-2 Range (J2P-30)	346	226	
MW-298	Northwest Corner (NWP-11)	230	145	

bgs = below ground surface
bwt = below water table

Completed drilling of MW-295 (J3P-33) and MW-296 (J2P-30), and commenced drilling of EW-274 (EW-D1-1) and MW-298 (NWP-11). Well development continued for recently installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-295, MW-296 and MW-298. Groundwater samples were collected from Bourne water supply and monitoring wells, and as part of the August round of the Draft 2003 Long-Term Groundwater Monitoring Plan. Samples were collected from well development water from EW-275. An investigation-derived waste (IDW) sample was collected from the Granular Activated Carbon (GAC) treatment system.

The following are the notes from the November 20, 2003 Technical Team meeting of the Impact Area Groundwater Study Program office at Camp Edwards:

Participants

Hap Gosner (IAGWSPO)
Pam Richardson (IAGWSPO)
LTC Will Tyminski (E&RC)
Jane Dolan (EPA)
Len Pinaud (MADEP)
Gina Kaso (ACE)
Katarzyna Chelkowska (ACE)
Marc Grant (AMEC-phone)
Larry Panell (Jacobs-phone)
Ben Gregson (IAGWSPO)
Bill Gallagher (IAGWSPO)
Todd Borci (EPA)
Desiree Moyer (EPA)
Mark Panni (MADEP)
Frank Fedele (ACE)
Dave Margolis (ACE)
Dick Skryness (ECC-phone)
Kevin Hood (Univ. Conn)
Dave Hill (IAGWSPO)
Paul Nixon (IAGWSPO)
Meghan Cassidy (EPA)
Bob Lim (EPA)
Dave Williams (MDPH)
Ed Wise (ACE)
Kim Harriz (AMEC)
Mike Goydas (Jacobs)
Dennis LeBlanc (USGS)

Punchlist Items

#1 Provide update of access letter to Regional Technical School (IAGWSP). Superintendent of school called and spoke with Bill Gallagher (IAGWSPO), denying access to the property for well installation. Mr. Gallagher requested a written response, which has not been received.

#2 Provide update on request to meet with Schooner Pass Condominium Association regarding installing a well on their property (IAGWSPO). EPA/MADEP scheduled a meeting today with the Condo Assoc. at 11:30 am. The IAGWSPO has not received a response to their letter. A third letter is being drafted, but will be held pending the agencies meeting.

#3 Provide update on request to well 4036011 property owner regarding installing a well on their property. The property owner replied by phone that they are entering into a purchase and sale agreement with the Schooner Pass Condo Association and will be decommissioning the well and upgrading the connection with the BWD; they also relayed this information to the EPA. They denied access to their property to install a monitoring well.

Northwest Corner Update

- Bill Gallagher (IAGWSPO) provided an update on the Northwest Corner investigation.
- MW-297 (NWP-10) was installed. Development was being conducted this week. During a site visit, EPA noted that there was soil erosion off the bank toward the canal, possibly due to the discharge of the development water. AMEC was assessing the situation, but was fairly certain that any erosion was attributable to rain water. Mr. Gallagher to provide assessment to Desiree Moyer (EPA) regarding the cause of erosion.
- Continued drilling of NWP-11 (MW-298) from 200 ft. Probable TD by the end of the week.
- The IAGWSPO is waiting on EPA's preference for locations to collect soil samples for analysis of hexachloroethane.
- Currently recalibrating the regional model based on the recent synoptic water level round.
- Draft Northwest Corner Data Summary has been scheduled to be submitted to the agencies on 1/23/04. The report is intended as a preliminary summary for agency comment. These comments would be incorporated into a revised Draft Report that would be more comprehensive and include all information from the wells currently being drilled and scoped.
- Todd Borci (EPA) agreed that this was an acceptable way to proceed with the preliminary report. Mr. Borci asked if additional well locations would be proposed in the report, stating that the IAGWSPO should think about a mechanism for adding additional wells, particularly a well north of MW-287.
- 100% anomaly clearance continues at GP-16. A small (less the 1 square foot) burn area was uncovered at Anomaly M082 on Tuesday, 11/18. Twelve inches of communication wire and tin can parts were excavated from the area. Because of the burned soil, there is a provision in the Workplan to sample the soil, following consultation with the agencies. However, based on the nature of the debris, which appeared to consist of general waste, the IAGWSPO was not recommending sampling. Desiree Moyer (EPA) asked for more information on the location. Mr. Gallagher to provide information and picture of the anomaly.
- Denis LeBlanc (USGS) inquired about the investigation scope, whether any activities were planned to test the hypothesis that the perchlorate found in groundwater was attributable to fireworks or munitions such as signals, flares, etc. Mr. LeBlanc suggested that perchlorate originating from two different sources might have different concentrations of isotopic species (O_{16}/O_{18} ratio), which would help in determining the source. Kevin Hood (UConn) indicated he would investigate this topic further with the UConn laboratory.
- Meghan Cassidy (EPA) indicated that EPA's assumption was that since the perchlorate was detected on the base, the source of the perchlorate was releases from training activities. The investigation approach was focused on plume delineation without regard to origin.

Fieldwork Update

- Frank Fedele (ACE) provided an update on the IAGWSP fieldwork.
- As part of AMEC's investigation, well installation was completed at MW-285 (CBP-7) – one screen; MW-294 (J3P-32) – one screen; MW-297 (NWP-10) – 2 screens; and EW-275 (EW-D1-2). Drilling was completed for IW-272 (IW-D1-2); IW-271 (IW-D1-1); and EW-274 (EW-D1-1). Well screens for these wells are scheduled to be installed in December using a cable tool rig. Drilling continues at MW-295 (J3P-33) and MW-298 (NWP-11).
- Well development was completed at MW-284 (J3P-32), MW-285 (CBP-7), MW-286 (J1P-19), MW-287 (NWP-6) and continues for MW-297 (NWP-10) and EW-275 (EW-D1-2).
- UXO clearance continued at IW-D1-3.
- GP-16 anomaly excavation continues.
- Groundwater sampling at Bourne, LTM and/or new wells continues.
- Soil sampling at 42 grids along the Western Boundary was conducted 11/10-11/12 and was discontinued to resume in early December. The limitation to the sampling schedule is based on the availability of UXO support. Darrin Smith (ACE) indicated AMEC has two crews, which are also being utilized for drill pad construction and the GP-16 Anomaly excavation. Todd Borci expressed concern that the samples be collected before the ground was frozen and requested more information on utilization of the UXO crews so that the agencies could help prioritize activities.
- As part of ECC's investigation, well installation of MW-291 (LP-11) – 2 screens and MW-293 (J2 Wood Rd #1) – 3 screens were completed. Drilling of MW296 (J2P-30) was also completed.
- Well pad construction was completed at J1P-22.
- Recent UXO clearance and road improvements have been completed. Future improvements of Turpentine Road are being considered.
- Soil sampling was conducted at Area 46 and Area 11 near the L Range. The remaining locations were not sampled pending resolution of UXO safety concerns. ECC is developing a plan to clear the area. Further discussion regarding the approved scope of work needs to be coordinated with the agencies.
- J-3 Range supplemental soil sampling was completed at the concrete target walls and the additional Burn Kettle location. Sampling at the Minute Man test pits is being evaluated. Jane Dolan asked when the J-2 Range Target Control Pit investigation was to be conducted since at the previous Tech meeting it was scheduled to commence on 11/10. Darrin Smith (ACE) indicated the current scheduled date is 12/01.
- Anomaly excavation was completed for the J-3 Barrage Rocket Site, detailed recon at 4 transect extensions continues.
- Waste characterization samples were collected from stockpiled soil at J-1, J-2, MT-9, and HUTA. Jane Dolan (EPA) questioned what soil from MT-9 needed to be sampled, assuming that all the soil was treated by soil washing. Mr. Fedele indicated the soil was located in drums in the staging area. Todd Borci expressed concern that the Army Corps was not meeting the requirement of the IDW plan, particularly appropriate labeling and storage of IDW, based on EPA's observations made during a recent visit to the staging area. Gina Kaso (ACE) and Mr. Fedele explained that ECC has compiled an inventory of all piles with location information and what samples have been collected. However, this information has not yet been cross-referenced to the MSP plans, but that information is being worked on. The inventory is the first step in the way forward for executing the IDW Plan. Ms. Dolan indicated this cross referencing of the inventory was important, as she has asked that specific soil piles in the SE Ranges be sampled for specific parameters and wants to make sure the samples are collected before the soil is shipped for disposal. Ben Gregson indicated he would forward the inventory of IDW, to the extent currently complete, to the agencies as soon as he could review the information. Meghan Cassidy (EPA) cautioned the IAGWSPO

that soil they intended to burn in the Thermal Treatment Unit would need to be sampled and analyzed for RCRA hazardous waste characteristics and that a plan for this characterization would need to be submitted for agency review.

- Desiree Moyer requested that Mr. Fedele provide an email indicating whether the 26 drums in the staging area were labeled correctly and, if not, how they should be labeled. Ms. Moyer had noted there were no dates on the labels and the labels stated that analyses were pending.
- The standard work attire for field activities for all parties should be work boots with ankle protection, a short sleeve shirt and long pants. Various other requirements including hard hat, steel-toed shoes, safety glasses and hearing protection were required on a site-specific basis.
- Anomaly removal and clearance continued at Demo 1. The status of anomaly excavation and removal was provided in a figure. Grids completed to date are: A1-A8; B1-B7, B-9, C1-C4, C-9, D1-D6, D9, and E1-E7. Currently working on clearance at grid D7.
- The current plan is to suspend the anomaly removal and use a UXO crew to complete soil excavation at E1 beginning Friday, 11/21 while another crew completes well pad clearance. Meghan Cassidy requested a schedule to see how the Army Corps was expecting to execute the plan for completing anomaly removal and soil excavation. Ms. Cassidy and Mr. Borci expressed general concerns that schedule changes were being made without notification to the agencies.
- Hap Gonser (IAGWSPO) indicated that the agencies would be notified of any changes that would cause schedule delays.
- Mr. Borci requested more information on the 25 lbs of HE that was removed from one of the Demo 1 grids.
- BIPs scheduled for today include 3 items at Demo 1 and 7 items at the Barrage Rocket site. Mr. Borci asked if the agencies had been notified of the additional BIPs to be conducted at the Barrage Rocket site; a prior email had specified only 5 items. Mr. Fedele indicated that additional notification had been provided, Mr. Borci to check his email.

ROA Status and Drilling Schedule

- Dave Margolis (ACE) and Darrin Smith (ACE) reviewed the ROA status and drilling schedule, distributing the drilling schedule.
- Changes to the ROA status table this week included the receipt of several ROA approvals, as well as additional submissions. ROA approvals were received for J2P-21, 22, 23; Target 42; Former A and K geophysical investigations.
- ROAs were submitted for J1P-27, J2P-24, J2P-28, BP-6 and CBP-9. Bill Gallagher indicated the IAGWSPO was still waiting on a response from the agencies regarding the depth of these wells.
- AMEC Rig #2 had completed drilling at EW-D1-1 and would move on to IW-D1-1. Rig #3 was drilling at NWP-11 and would move on to NWP-8ba when completed. Rig #4 was drilling at J3P-33 and would move on to NWP-12 when completed. The Pump Rig was developing at EW-D1-2.
- The ECC Rig was waiting on screen settings at J2P-30 and determination of the next location.
- The Army Corps was considering the mobilization of a Sonic Rig to be used to drill NW Corner and Western Boundary wells, while one of AMEC's Barber Rigs would move to the SE Ranges for utilization by ECC. The Sonic Rig would not be available until mid December and based on the hunting and holiday schedule would not be needed before that time. In addition, the Army Corps was considering utilizing another Cable-Tool rig to be shared by the two contractors to install well screens.

J-2 Range Groundwater Investigation

- Dave Hill (IAGWSPO) led a discussion on the plan to delineate the J-2 Range perchlorate plume.
- The J-2 Range discussion centered on reaching agreement on the next drilling location for the ECC drill rig. Currently ECC was waiting on profile data from J2P-30 (the downgradient Jefferson Rd well) in order to set the well screens and determine the next drilling location.
- Jane Dolan indicated that the agreed upon plan was to select the drilling location based on the following logic: perchlorate >1 ppb at J2P-30, run forward particle tracks from detections, and select a downgradient drilling location accordingly. Perchlorate < 1 ppb at J2P-30, install wing wells lateral to J2P-30 on Jefferson Rd.
- Mike Goydas (Jacobs) recommended that the next well be located 600 ft east of MW-293 on Wood Road. The principal purpose of the well would be to establish the concentration gradient to the east, to reduce uncertainty regarding the centerline of the plume. By reducing the uncertainty at Wood Road, the selection process for downgradient wells on Jefferson Rd and beyond would be more efficient since the wells could be placed with greater certainty that the core of the plume would not be missed.
- Mr. Hill emphasized that logistically this was the best next step since it would not be possible to select a location, obtain ROA approval, and construct a well pad at a drilling location downgradient of Jefferson Road before the 12/01-12/02 hunting season period. On the other hand, a location on Wood Rd already had ROA approval and could be started as soon as the drill rig moved off of the J2P-30 location. Hap Gonser (IAGWSPO) added that the IAGWSPO had negotiated the prohibition of hunting south of Jefferson Rd. Therefore, drilling at the location on Wood Rd would not have to be suspended during the 2-day hunting season.
- Meghan Cassidy and Todd Borci expressed concern that the public and Water Supply purveyors were most interested in finding out how close the perchlorate plume was to the drinking water supply, cautioning the IAGWSPO that although it was important to delineate the plume, an emphasis should be placed on finding the downgradient extent and potential threat to the Water Co-op Supply wells.
- Todd Borci noted that rather than 600 feet east of MW-293; the next well location should be 200 feet east of MW-293, to investigate the plume from the core out. This approach had worked best in delineating the Demo Area 1 plume. Mr. Goydas explained that this plume was not similar to Demo 1 plume; dispersion was a more significant component of contaminant migration near the water table mound. Therefore, there was more uncertainty to delineating the contaminant migration pathway particularly on the east side of the plume. To establish the concentration gradient, a 200 ft initial well spacing would not be efficient. The intent of the 600-foot spacing was to define the shoulders of the plume. Additional wells could be placed to define the interior of the plume once the shoulders were defined.
- The plan forward agreed to by all parties was to mobilize the drill rig to the Wood Road location to be located 400 ft east of the MW-293 location. This distance was changed to 375 ft east of MW-293 based on discussions later in the day.
- Once the data was received from J2P-30 and assuming the perchlorate concentrations were above 1 ppb, particle tracks would be generated and used to select a location downgradient of Jefferson Road, preferably at Gibbs Road. If the perchlorate concentration at J2P-30 were less than 1 ppb, an additional location would be selected on Jefferson Road, based on particle tracks. The ROA process would be initiated immediately and expedited so that the selected well location would be prepared for drilling following the completion of drilling at the Wood Road well.

2. SUMMARY OF DATA RECEIVED

Rush data are summarized in Table 3. These data are for analyses that are performed on a fast turn around time, typically 1-5 days. Perchlorate and explosive analyses for monitoring wells,

and perchlorate, explosive and volatile organic compound (VOC) analyses for groundwater profile samples, are conducted in this timeframe, as well as any analyses pursuant to a special request. The rush data are not validated, but are provided as an indication of the most recent preliminary results. Table 3 summarizes only detects, and does not show samples with non-detects.

The status of the explosive detections with respect to confirmation using Photo Diode Array (PDA) spectra is indicated in Table 3. PDA is a procedure that has been implemented for the explosive analysis, to reduce the likelihood of false positive identifications. Where the PDA status is "YES" in Table 3, the detected compound is verified as properly identified. Where the status is "NO", the identification of an explosive has been determined to be a false positive. Where the status is blank, PDA has not yet been used to evaluate the detection, or PDA is not applicable because the analyte is a VOC or perchlorate. Most explosive detections verified by PDA are confirmed to be present upon completion of validation. Table 3 includes the following detections:

Table 3 includes detections from the following areas:

Western Boundary

- Groundwater samples from 02-13M1 and MW-213M2, M3 and duplicate had detections of perchlorate. The results were similar to the previous sampling rounds.

Demo Area 1

- A sample of well development water from EW-275 (EW-D1-2), collected prior to GAC treatment, had a detection of perchlorate.

Southeast Ranges

- Profile results from MW-295 (J3P-33) had detections of explosives, perchlorate, and various VOCs. None of the explosives detections were confirmed by PDA spectra. Perchlorate was detected in six intervals from 23 to 63 feet below the water table. Well screens will be set at the depth (20 to 30 ft bwt) corresponding to the shallowest perchlorate detection and at the depth (48 to 58 ft bwt) corresponding to the highest concentration of perchlorate detected.

- Profile results from MW-296 (J2P-30) had detections of explosives. None of the explosives compounds were confirmed by PDA spectra. Well screens will not be set until additional upgradient profile data is received.

Northwest Corner

- A groundwater sample from RSNW06 had a detection of RDX that was confirmed by PDA spectra. The result was similar to the previous sampling rounds.

DELIVERABLES SUBMITTED

Draft Former A Range Additional Delineation Work Plan	11/19/2003
Final Revised L Range Supplemental Soil Work Plan	11/19/2003
Weekly Progress Update for November 10 – November 14, 2003	11/21/2003

3. SCHEDULED ACTIONS

Scheduled actions for the week of November 24 include complete well installation of MW-295 (J3P-33), complete drilling of MW-298 (NWP-11), and commence drilling of MW-300 (J2P-Wood Rd.-west) and IW-273 (IW-D1-3). Groundwater sampling of Bourne water supply and monitoring wells, recently installed wells, and as part of the August round of the Draft 2003 Long-Term Groundwater Monitoring Plan will continue. Demo Area 1 UXO anomaly removal and anomaly excavation at Gun Position GP-16 will continue.

4. SUMMARY OF ACTIVITIES FOR DEMO AREA 1

The Response to Comments for the Draft Groundwater Report Addendum for the Demo Area 1 Groundwater Operable Unit will be finalized pending the receipt of DEP comments. A comment resolution meeting for the Groundwater RRA Plan is scheduled for November 24, 2003. Installation of extraction and injection wells for the Groundwater RRA are ongoing. Installation of subsurface piping and well vaults for the Frank Perkins Road Extraction, Treatment and Recharge System will commence November 24, 2003. Modeling activities in support of the Feasibility Study are ongoing.

Geophysical anomaly excavation and removal within the Demo Area 1 depression continues. Soil excavation at Demo Area 1 was initiated on November 21, 2003. Responses to EPA and DEP comments on the Soil Treatment Plan are being prepared.

TABLE 2
SAMPLING PROGRESS
11/16/2003 - 11/22/2003

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
4036000-01G-A	4036000-01G	11/17/2003	GROUNDWATER	38	69.8	6	12
4036000-03G-A	4036000-03G	11/17/2003	GROUNDWATER	50	60	6	12
4036000-04G-A	4036000-04G	11/17/2003	GROUNDWATER	54.6	64.6	6	12
4036000-06G-A	4036000-06G	11/17/2003	GROUNDWATER	108	128	6	12
58MW0001-A	58MW0001	11/18/2003	GROUNDWATER	121.8	126.8	0	5
58MW0009E-A	58MW0009E	11/18/2003	GROUNDWATER	133.4	138.4	6.5	11.5
58MW0011D-A	58MW0011D	11/20/2003	GROUNDWATER	175.4	180.4	49.5	54.5
58MW0011D-A	58MW0011D	11/21/2003	GROUNDWATER	175.4	180.4	49.5	54.5
58MW0018B-A	58MW0018	11/17/2003	GROUNDWATER	175.9	185.6	34.55	44.55
58MW0018B-QA	58MW0018B	11/17/2003	GROUNDWATER	175.9	185.6	34.55	44.55
95-15A-A	95-15A	11/17/2003	GROUNDWATER	186.5	196.5	74.71	84.71
95-15C-A	95-15C	11/17/2003	GROUNDWATER	147	157	78.16	88.16
95-15C-A	95-15	11/17/2003	GROUNDWATER	147	157	78.16	88.16
95-6A-A	95-6A	11/18/2003	GROUNDWATER	167.5	177.5	142.5	152.5
95-6B-A	95-6	11/18/2003	GROUNDWATER	119	129	94	104
95-6ES-A	95-6ES	11/18/2003	GROUNDWATER	34.7	44.7	0	10
ASPWELL-A	ASPWELL	11/20/2003	GROUNDWATER	0	0		
ASPWELL-D	ASPWELL	11/20/2003	GROUNDWATER	0	0		
CEMETERY1-A	CEMETERY1	11/20/2003	GROUNDWATER	90	100		
RANGECON-A	RANGECON	11/20/2003	GROUNDWATER	260	270	30	40
TW1-88A-A	1-88	11/17/2003	GROUNDWATER	102.9	102.9	67.4	67.4
TW1-88B-A	1-88	11/17/2003	GROUNDWATER	105.5	105.5	69.6	69.6
W01M2A	MW-01	11/17/2003	GROUNDWATER	160	165	44	49
W02-12M1A	02-12	11/17/2003	GROUNDWATER	109	119	58.35	68.35
W02-12M2A	02-12	11/17/2003	GROUNDWATER	94	104	43.21	53.21
W02-12M3A	02-12	11/17/2003	GROUNDWATER	79	89	28.22	38.22
W02-13M1A	02-13	11/17/2003	GROUNDWATER	98	108	58.33	68.33
W02-13M2A	02-13	11/17/2003	GROUNDWATER	83	93	44.2	54.2
W02-13M3A	02-13	11/17/2003	GROUNDWATER	68	78	28.3	38.3
W02-13M3D	02-13	11/17/2003	GROUNDWATER	68	78	28.3	38.3
W02-15M1A	02-15	11/20/2003	GROUNDWATER	125	135	75.63	85.63
W02-15M2A	02-15	11/20/2003	GROUNDWATER	101	111	51.5	61.5
W02-15M3A	02-15	11/20/2003	GROUNDWATER	81	91	31.4	41.4
W02-15M3D	02-15	11/20/2003	GROUNDWATER	81	91	31.4	41.4
W02M1A	MW-02	11/20/2003	GROUNDWATER	212	217	75	80
W02M1A	MW-2	11/20/2003	GROUNDWATER	212	217	75	80
W02M2A	MW-02	11/19/2003	GROUNDWATER	170	175	33	38
W02M2A	MW-2	11/19/2003	GROUNDWATER	170	175	33	38
W02SSA	MW-2	11/19/2003	GROUNDWATER	137	147	0	10
W05DDA	MW-5	11/20/2003	GROUNDWATER	335	340	223	228

Profiling methods may include: Volatiles, Explosives, and Perchlorate
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, Perchlorate 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
11/16/2003 - 11/22/2003

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
W05DDA	MW-05	11/20/2003	GROUNDWATER	335	340	223	228
W05M1A	MW-5	11/20/2003	GROUNDWATER	210	215	98	103
W05M1A	MW-05	11/20/2003	GROUNDWATER	210	215	98	103
W05M2A	MW-05	11/20/2003	GROUNDWATER	170	175	58	63
W05SSA	MW-05	11/20/2003	GROUNDWATER	119	129	7	17
W05SSA	MW-5	11/20/2003	GROUNDWATER	119	129	7	17
W104SSA	MW-104	11/18/2003	GROUNDWATER	118	128	0	10
W111M3A	MW-111	11/19/2003	GROUNDWATER	165	175	33	43
W113M2A	MW-113	11/18/2003	GROUNDWATER	190	200	48	58
W167M3A	MW-167	11/17/2003	GROUNDWATER	100	110	21	31
W167M3D	MW-167	11/17/2003	GROUNDWATER	100	110	21	31
W171M1A	MW-171	11/21/2003	GROUNDWATER	141	146	143	148
W171M2A	MW-171	11/21/2003	GROUNDWATER	81	86	83	88
W171M3A	MW-171	11/21/2003	GROUNDWATER	29	34	31	36
W178M1A	MW-178	11/17/2003	GROUNDWATER	257	267	117	127
W178M2A	MW-178	11/17/2003	GROUNDWATER	167	177	27	37
W178M2D	MW-178	11/17/2003	GROUNDWATER	167	177	27	37
W182M2A	MW-182	11/18/2003	GROUNDWATER	273	283	102.89	112.89
W182M2A	MW-182	11/21/2003	GROUNDWATER	273	283	102.89	112.89
W187DDA	MW-187	11/21/2003	GROUNDWATER	306	316	199.5	209.5
W187DDA	MW-187D	11/21/2003	GROUNDWATER	306	316	199.5	209.5
W187DDA-QA	MW-187	11/21/2003	GROUNDWATER	306	316	199.5	209.5
W187M1A	MW-187	11/21/2003	GROUNDWATER	160	170	51.3	61.3
W187SSA	MW-187	11/21/2003	GROUNDWATER	103	113	0	10
W189SSA	MW-189	11/21/2003	GROUNDWATER	94	104	0	7
W280M1A	MW-280	11/21/2003	GROUNDWATER	255	265	93.99	103.99
W280M1D	MW-280	11/21/2003	GROUNDWATER	255	265	93.99	103.99
W280M2A	MW-280	11/21/2003	GROUNDWATER	202	212	41.64	51.64
W280M3A	MW-280	11/21/2003	GROUNDWATER	185	195	24.12	34.12
W32DDA	MW-32	11/18/2003	GROUNDWATER	181.5	186.5	85	90
W32MMA	MW-32	11/18/2003	GROUNDWATER	161.5	171.5	65	75
W32MMD	MW-32	11/18/2003	GROUNDWATER	161.5	171.5	65	75
W32SSA	MW-32	11/18/2003	GROUNDWATER	146.5	151.5	50	55
W38DDA	MW-38	11/19/2003	GROUNDWATER	242	252	124	134
W38M1A	MW-38	11/19/2003	GROUNDWATER	217	227	99	109
W38M2A	MW-38	11/19/2003	GROUNDWATER	187	197	69	79
W38M3A	MW-38	11/19/2003	GROUNDWATER	170	180	52	62
W38M4A	MW-38	11/20/2003	GROUNDWATER	132	142	14	24
W46DDA	MW-46	11/19/2003	GROUNDWATER	295	305	136	146
W46M1A	MW-46	11/19/2003	GROUNDWATER	262	272	103	113

Profiling methods may include: Volatiles, Explosives, and Perchlorate
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TABLE 2
SAMPLING PROGRESS
11/16/2003 - 11/22/2003

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
W46M2A	MW-46	11/19/2003	GROUNDWATER	215	225	56	66
W46M3A	MW-46	11/20/2003	GROUNDWATER	182	192	23	33
W47DDA	MW-47	11/19/2003	GROUNDWATER	194	204	100	110
W47M1A	MW-47	11/19/2003	GROUNDWATER	169	179	75	85
W47M2A	MW-47	11/19/2003	GROUNDWATER	131.5	141.5	38	48
W47M2D	MW-47	11/19/2003	GROUNDWATER	131.5	141.5	38	48
W50DDA	MW-50	11/18/2003	GROUNDWATER	237	247	119	129
W50M1A	MW-50	11/18/2003	GROUNDWATER	207	217	89	99
W50M1A-QA	MW-50	11/18/2003	GROUNDWATER	207	217	89	99
W50M2A	MW-50	11/18/2003	GROUNDWATER	177	187	59	69
W50M2A-QA	MW-50	11/18/2003	GROUNDWATER	177	187	59	69
W54DDA	MW-54	11/21/2003	GROUNDWATER	278	288	127	137
W54M1A	MW-54	11/20/2003	GROUNDWATER	230	240	79	89
W54M2A	MW-54	11/21/2003	GROUNDWATER	210	220	59	69
W54M3A	MW-54	11/20/2003	GROUNDWATER	180	190	29	39
W57SSA	MW-57	11/20/2003	GROUNDWATER	85	95	0	10
W70SSA	MW-70	11/19/2003	GROUNDWATER	132	142	4	14
W71M1A	MW-71	11/18/2003	GROUNDWATER	180	190	22	32
W71SSA	MW-71	11/17/2003	GROUNDWATER	158	168	0	10
W90M1A	MW-90	11/18/2003	GROUNDWATER	145	155	27	37
W90M1A-QA	MW-90	11/18/2003	GROUNDWATER	145	155	27	37
W90SSA	MW-90	11/19/2003	GROUNDWATER	118	128	0	10
W90SSA-QA	MW-90	11/19/2003	GROUNDWATER	118	128	0	10
W97M1A	MW-97	11/19/2003	GROUNDWATER	235	245	112	122
W97M2A	MW-97	11/19/2003	GROUNDWATER	185	195	62	72
W97M3A	MW-97	11/20/2003	GROUNDWATER	140	150	17	27
W97M3D	MW-97	11/20/2003	GROUNDWATER	140	150	17	27
DW111903-NV	GAC WATER	11/19/2003	IDW	0	0		
CEMETERY1-A	CEMETERY1	11/20/2003	OTHER				
EW275EFF0-A	EW-275	11/20/2003	OTHER				
EW275EFF0-D	EW-275	11/20/2003	OTHER				
EW275EFF4-A	EW-275	11/21/2003	OTHER				
EW275INF0-A	EW-275	11/20/2003	OTHER				
EW275INF4-A	EW-275	11/21/2003	OTHER				
EW275MID0-A	EW-275	11/20/2003	OTHER				
EW275MID4-A	EW-275	11/21/2003	OTHER				
G295DJA	MW-295	11/17/2003	PROFILE	190	190	92.9	92.9
G295DKA	MW-295	11/17/2003	PROFILE	200	200	102.9	102.9
G295DNA	MW-295	11/18/2003	PROFILE	230	230	132.9	132.9
G295DOA	MW-295	11/19/2003	PROFILE	240	240	142.9	142.9

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TABLE 2
SAMPLING PROGRESS
11/16/2003 - 11/22/2003

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
G295DPA	MW-295	11/19/2003	PROFILE	250	250	152.9	152.9
G295DPD	MW-295	11/19/2003	PROFILE	250	250	152.9	152.9
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9
G295DRA	MW-295	11/19/2003	PROFILE	270	270	172.9	172.9
G295DSA	MW-295	11/19/2003	PROFILE	280	280	182.9	182.9
G295DUA	MW-295	11/20/2003	PROFILE	296	296	198.9	198.9
G298DAA	MW-298	11/18/2003	PROFILE	96	96	11.1	11.1
G298DBA	MW-298	11/18/2003	PROFILE	110	110	21.1	21.1
G298DCA	MW-298	11/18/2003	PROFILE	120	120	31.1	31.1
G298DCD	MW-298	11/18/2003	PROFILE	120	120	31.1	31.1
G298DDA	MW-298	11/18/2003	PROFILE	130	130	41.1	41.1
G298DEA	MW-298	11/19/2003	PROFILE	140	140	51.1	51.1
G298DFA	MW-298	11/19/2003	PROFILE	150	150	61.1	61.1
G298DGA	MW-298	11/19/2003	PROFILE	160	160	71.1	71.1
G298DHA	MW-298	11/19/2003	PROFILE	170	170	81.1	81.1
G298DHD	MW-298	11/19/2003	PROFILE	170	170	81.1	81.1
G298DIA	MW-298	11/19/2003	PROFILE	180	180	91.1	91.1
G298DJA	MW-298	11/19/2003	PROFILE	190	190	101.1	101.1
G298DKA	MW-298	11/20/2003	PROFILE	200	200	111.1	111.1
G298DMA	MW-298	11/21/2003	PROFILE	220	220	121.1	121.1
MW-296-11	MW-296	11/17/2003	Profile	220	220	100	100
MW-296-11	MW-296	11/17/2003	Profile	220	220	100	100
MW-296-12	MW-296	11/17/2003	Profile	230	230	110	110
MW-296-12	MW-296	11/17/2003	Profile	230	230	110	110
MW-296-13	MW-296	11/17/2003	Profile	240	240	120	120
MW-296-13	MW-296	11/17/2003	Profile	240	240	120	120
MW-296-13FD	MW-296	11/17/2003	Profile	240	240	120	120
MW-296-13FD	MW-296	11/17/2003	Profile	240	240	120	120
MW-296-14	MW-296	11/17/2003	Profile	250	250	130	130
MW-296-14	MW-296	11/17/2003	Profile	250	250	130	130
MW-296-15	MW-296	11/17/2003	Profile	260	260	140	140
MW-296-15	MW-296	11/17/2003	Profile	260	260	140	140
MW-296-16	MW-296	11/17/2003	Profile	270	270	150	150
MW-296-16	MW-296	11/17/2003	Profile	270	270	150	150
MW-296-17	MW-296	11/17/2003	Profile	280	280	160	160
MW-296-17	MW-296	11/17/2003	Profile	280	280	160	160
MW-296-18	MW-296	11/17/2003	Profile	290	290	170	170
MW-296-18	MW-296	11/17/2003	Profile	290	290	170	170
MW-296-19	MW-296	11/17/2003	Profile	300	300	180	180
MW-296-19	MW-296	11/17/2003	Profile	300	300	180	180

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TABLE 2
SAMPLING PROGRESS
11/16/2003 - 11/22/2003

SAMPLE_ID	GIS_LOCID	LOGDATE	SAMP_TYPE	SBD	SED	BWTS	BWTE
MW-296-20	MW-296	11/18/2003	Profile	310	310	190	190
MW-296-20	MW-296	11/18/2003	Profile	310	310	190	190
MW-296-21	MW-296	11/18/2003	Profile	330	330	210	210
MW-296-21	MW-296	11/18/2003	Profile	330	330	210	210
MW-296-22	MW-296	11/18/2003	Profile	340	340	220	220
MW-296-22	MW-296	11/18/2003	Profile	340	340	220	220

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 10/24/03 - 11/22/03

SAMPLE_ID	LOCID OR WEL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	ANALYTE	PDA
RSNW06-A	RSNW06	11/12/2003	GROUNDWATER	0	0			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	YES
W02-13M1A	02-13	11/17/2003	GROUNDWATER	98	108	58.33	68.33	E314.0	PERCHLORATE	
W213M2A	MW-213	11/11/2003	GROUNDWATER	89	99	41.15	51.15	E314.0	PERCHLORATE	
W213M3A	MW-213	11/11/2003	GROUNDWATER	77	82	29.38	34.38	E314.0	PERCHLORATE	
W213M3D	MW-213	11/11/2003	GROUNDWATER	77	82	29.38	34.38	E314.0	PERCHLORATE	
EW275INF0-A	EW-275	11/20/2003	OTHER					E314.0	PERCHLORATE	
G295DAA	MW-295	11/12/2003	PROFILE	100	100	2.9	2.9	OC21V	CHLOROFORM	
G295DAA	MW-295	11/12/2003	PROFILE	100	100	2.9	2.9	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G295DAA	MW-295	11/12/2003	PROFILE	100	100	2.9	2.9	OC21V	ACETONE	
G295DAD	MW-295	11/12/2003	PROFILE	100	100	2.9	2.9	8330N	PICRIC ACID	NO*
G295DAD	MW-295	11/12/2003	PROFILE	100	100	2.9	2.9	OC21V	CHLOROFORM	
G295DBA	MW-295	11/13/2003	PROFILE	110	110	12.9	12.9	8330N	2,4,6-TRINITROTOLUENE	NO*
G295DBA	MW-295	11/13/2003	PROFILE	110	110	12.9	12.9	8330N	PICRIC ACID	NO*
G295DBA	MW-295	11/13/2003	PROFILE	110	110	12.9	12.9	8330N	2,6-DINITROTOLUENE	NO*
G295DBA	MW-295	11/13/2003	PROFILE	110	110	12.9	12.9	OC21V	ACETONE	
G295DBA	MW-295	11/13/2003	PROFILE	110	110	12.9	12.9	OC21V	CHLOROMETHANE	
G295DBA	MW-295	11/13/2003	PROFILE	110	110	12.9	12.9	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G295DBA	MW-295	11/13/2003	PROFILE	110	110	12.9	12.9	OC21V	CHLOROFORM	
G295DCA	MW-295	11/13/2003	PROFILE	120	120	22.9	22.9	E314.0	PERCHLORATE	
G295DCA	MW-295	11/13/2003	PROFILE	120	120	22.9	22.9	OC21V	CHLOROFORM	
G295DCA	MW-295	11/13/2003	PROFILE	120	120	22.9	22.9	OC21V	ACETONE	

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
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SAMPLES COLLECTED 10/24/03 - 11/22/03

SAMPLE_ID	LOCID OR WEL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	ANALYTE	PDA
G295DDA	MW-295	11/13/2003	PROFILE	130	130	32.9	32.9	8330N	2,4,6-TRINITROTOLUENE	NO*
G295DDA	MW-295	11/13/2003	PROFILE	130	130	32.9	32.9	8330N	2,6-DINITROTOLUENE	NO
G295DDA	MW-295	11/13/2003	PROFILE	130	130	32.9	32.9	8330N	PICRIC ACID	NO*
G295DDA	MW-295	11/13/2003	PROFILE	130	130	32.9	32.9	E314.0	PERCHLORATE	
G295DDA	MW-295	11/13/2003	PROFILE	130	130	32.9	32.9	OC21V	CHLOROFORM	
G295DDA	MW-295	11/13/2003	PROFILE	130	130	32.9	32.9	OC21V	ACETONE	
G295DEA	MW-295	11/13/2003	PROFILE	140	140	42.9	42.9	E314.0	PERCHLORATE	
G295DEA	MW-295	11/13/2003	PROFILE	140	140	42.9	42.9	OC21V	CHLOROFORM	
G295DEA	MW-295	11/13/2003	PROFILE	140	140	42.9	42.9	OC21V	ACETONE	
G295DFA	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	8330N	PICRIC ACID	NO*
G295DFA	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	8330N	2,6-DINITROTOLUENE	NO*
G295DFA	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	8330N	2,4,6-TRINITROTOLUENE	NO*
G295DFA	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	E314.0	PERCHLORATE	
G295DFA	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	OC21V	ACETONE	
G295DFA	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	OC21V	CHLOROFORM	
G295DFD	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	8330N	2,4,6-TRINITROTOLUENE	NO*
G295DFD	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	8330N	2,6-DINITROTOLUENE	NO*
G295DFD	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	8330N	PICRIC ACID	NO*
G295DFD	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	E314.0	PERCHLORATE	
G295DFD	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	OC21V	ACETONE	
G295DFD	MW-295	11/13/2003	PROFILE	150	150	52.9	52.9	OC21V	CHLOROFORM	

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SAMPLES COLLECTED 10/24/03 - 11/22/03

SAMPLE_ID	LOCID OR WEL	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	ANALYTE	PDA
G295DGA	MW-295	11/13/2003	PROFILE	160	160	62.9	62.9	E314.0	PERCHLORATE	
G295DHA	MW-295	11/14/2003	PROFILE	170	170	72.9	72.9	OC21V	CHLOROFORM	
G295DHA	MW-295	11/14/2003	PROFILE	170	170	72.9	72.9	OC21V	ACETONE	
G295DIA	MW-295	11/14/2003	PROFILE	180	180	82.9	82.9	OC21V	ACETONE	
G295DJA	MW-295	11/17/2003	PROFILE	190	190	92.9	92.9	OC21V	CHLOROFORM	
G295DJA	MW-295	11/17/2003	PROFILE	190	190	92.9	92.9	OC21V	ACETONE	
G295DNA	MW-295	11/18/2003	PROFILE	230	230	132.9	132.9	8330N	PICRIC ACID	NO*
G295DNA	MW-295	11/18/2003	PROFILE	230	230	132.9	132.9	8330N	2,6-DINITROTOLUENE	NO
G295DNA	MW-295	11/18/2003	PROFILE	230	230	132.9	132.9	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	NO
G295DPA	MW-295	11/19/2003	PROFILE	250	250	152.9	152.9	8330N	2,6-DINITROTOLUENE	no
G295DPA	MW-295	11/19/2003	PROFILE	250	250	152.9	152.9	8330N	2,4,6-TRINITROTOLUENE	no
G295DPA	MW-295	11/19/2003	PROFILE	250	250	152.9	152.9	8330N	NITROGLYCERIN	no
G295DPA	MW-295	11/19/2003	PROFILE	250	250	152.9	152.9	OC21V	ACETONE	
G295DPD	MW-295	11/19/2003	PROFILE	250	250	152.9	152.9	8330N	2,4,6-TRINITROTOLUENE	no
G295DPD	MW-295	11/19/2003	PROFILE	250	250	152.9	152.9	8330N	2,6-DINITROTOLUENE	no
G295DPD	MW-295	11/19/2003	PROFILE	250	250	152.9	152.9	8330N	NITROGLYCERIN	no
G295DPD	MW-295	11/19/2003	PROFILE	250	250	152.9	152.9	OC21V	ACETONE	
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	PICRIC ACID	no
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	2,4,6-TRINITROTOLUENE	no
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	no
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	2,6-DINITROTOLUENE	no

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G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	2,4-DINITROTOLUENE	no
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	4-NITROTOLUENE	no
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	2-AMINO-4,6-DINITROTOLUENE	no
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	NITROGLYCERIN	no
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	TETRYL	no
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	3-NITROTOLUENE	no
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	8330N	2-NITROTOLUENE	no
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	OC21V	ACETONE	
G295DQA	MW-295	11/19/2003	PROFILE	260	260	162.9	162.9	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G295DRA	MW-295	11/19/2003	PROFILE	270	270	172.9	172.9	OC21V	ACETONE	
G295DSA	MW-295	11/19/2003	PROFILE	280	280	182.9	182.9	OC21V	CHLOROFORM	
MW-296-01	MW-296 (J2P-JeffR)	11/10/2003	PROFILE	130	130	10	10	8330N	RDX	NO
MW-296-02	MW-296 (J2P-JeffR)	11/11/2003	PROFILE	140	140	20	20	8330N	RDX	NO
MW-296-05	MW-296 (J2P-JeffR)	11/11/2003	PROFILE	170	170	50	50	8330N	Picric Acid	NO
MW-296-09	MW-296 (J2P-JeffR)	11/11/2003	PROFILE	210	210	90	90	8330N	RDX	NO

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