WEEKLY PROGRESS UPDATE
FOR NOVEMBER 11 – NOVEMBER 15, 2002

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 & 1-2000-0014
MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from November 11 through November 15, 2002.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of November 15 is summarized in Table 1.

Table 1. Drilling progress as of November 15, 2002

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-247	J-3 Range (J3P-22)	224	200	180-190; 125-135; 95-105
MW-248	Demo Area 1 (D1P-16)	250	137	
MW-249	Impact Area (CIAP-14)	90		

bgs = below ground surface
bwt = below water table

Completed well installation of MW-247 (J3P-22), continued drilling of MW-248 (D1P-16), and commenced drilling of MW-249 (CIAP-14). Well development continued for newly installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from MW-248. Groundwater samples were collected from Bourne water supply and monitoring wells, from recently installed wells and as part of the December Long Term Groundwater monitoring round. Water samples were collected from the GAC treatment system. A pre-detonation soil sample was collected from the J-1 Range.

As part of the Munitions Survey Project, pre-detonation and post-detonation soil samples were collected from the J-2 Range and Succonnsett Pond.

The following are the notes from the November 14, 2002 Technical Team meeting at the IAGWSPO:

Participants

Bill Gallagher (IAGWSPO)	Karen Wilson (IAGWSPO)	LTC Bill FitzPatrick (E&RC)
Todd Borci (EPA)	Desiree Moyer (EPA)	Meghan Cassidy (EPA-phone)
Jane Dolan (EPA)	Len Pinaud (MADEP)	Mark Panni (MADEP)
Dave Williams (MDPH)	Carol Ann Charette (ACE)	Ed Wise (ACE)
Gina Kaso (ACE)	Rob Foti (ACE)	Heather Sullivan (ACE)
Don Wood (ACE)	Ian Osgenhz (ACE)	Cliff Opdyke (ACE)
Mark Koenig (ACE)	Yuri Yatseritch (ACE)	Philip Durgin (ACE)
Marc Grant (AMEC)	Kim Harriz (AMEC)	John Rice (AMEC-phone)
Dick Skryness (ECC)	Kris Curly (Guild Communications)	Mike Goydas (Jacobs)
Larry Hudgins (Tetra Tech)	Leroy Montroy (TT-phone)	Susan Stewart (TT-phone)
Larry Pannell (Jacobs)		

Punchlist Items

#3 Determine status of sampling the Gallo Skating Rink well (Guard). D.L. Maher indicates it will cost $1755 to obtain a sample from the skating rink well. The Guard is considering their proposal.

#12 Determine if WS4P-6 is a contingency well (Corps). AFCEE funding was provided for two monitoring wells. Gina Kaso (ACE) reported Mike Minior (AFCEE) requested a map of the proposed locations to determine if this was one of the two wells that AFCEE agreed to fund.

#14 Provide a map of proposed wells upgradient of WS-4 (Corps). A map of proposed locations (P-3 through P-7) was distributed. There is still discussion related to WS4P-7, regarding the Guard's responsibility to install this well. The Guard is assuming responsibility for P-3, P-4. AFCEE is assuming responsibility for P-5, P-6. Leo Yuskus (Haley and Ward) had claimed P-7 was a location requested by DEP Water Supply.

#15 Consider if GAC-treated surface water run-off from the Scrap Yard can be discharged to the ground surface (EPA). EPA is still considering.

#17 Provide expedited data of Snake Pond samples (Corps). Validated results are expected early next week.

ASR Monthly Update

Carla Buriks provided a summary of ASR activities completed In October, except for the witness interviews, which were discussed in an after meeting. A one-page summary update was distributed.

- The Draft ASR GIS Data Archive and a response to comments letter was submitted to the Guard and Corps on 11/01 for internal review.
- Additional information including a supplemental 104(e) response from Atlantic Research Corporation and additional historical and aerial photographs are being added to the archive.
- The Draft ASR GIS Data Archive will be submitted to the agencies on 12/16.
- A table to track information requests versus responses, as requested by EPA, will be completed shortly.

MSP3 and Southeast Ranges Update

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

J-2 Range Polygons. Crews continue to work on Polygon 2R. An update of findings is being provided daily. An updated list of findings was distributed at the meeting.

Ponds. Excavation of anomalies at Deep Bottom Pond were completed on Tuesday 11/12. Karen Wilson (IAGWSPO) and Dr. Sue Goodfellow (E&RC) approved the restoration activities. A table of findings and a map were distributed. The depth to water is up to 6 or 8 feet deep in some portions of the pond.

- Succonsett Pond anomaly excavations were completed. Ms. Wilson will revisit the site to review restoration activities. A table of findings and a map was distributed. The depth to water in the pond is approximately 6 inches.
- The excavation of a single anomaly in Grassy Pond is pending the submission of a write-up to the Sandwich Conservation Commission, one of the commission's three requirements. This write-up has been provided to Ms. Wilson for review and will be sent to the commission by next week. A map of the pond with anomaly notated was distributed.
- Don Wood (ACE) indicated the Pond investigations and findings would be documented in a letter report. Len Pinaud (MADEP) requested the Guard consider investigation of the anomalies in Succonsett Pond. Todd Borci suggested the Guard recommend in the letter report that the remaining anomalies in Succonsett Pond be excavated based on the three items found on the shoreline which were BIPed.

U Range. The geophysical survey is continuing. Investigation of the four grids for documenting the orientation and declination of rockets was completed. The results of this exercise were disturbed and showed no discernible pattern to the rocket orientation.

BIPs. Blow-in-place was completed for five items found at Succonsett Pond (3 items), J-2 Range (1 item) and the J1P-18 Pad (1 item) as follows:

2 – 2.36-inch HEAT Rocket, M6 Series with M400 BD Fuze
1 – 37MM TP Projectile, MKII with M38 Series BD Fuze.
1 – 105MM HE Projectile, M107 with M51 Series PD Fuze.
1 – 105MM HE Projectile, M1 with unknown fuze.

Drilling/Sampling. – Well screens are being set at J3P-22 (MW-247). This rig to move to J3P-19 at Camp GoodNews next. MW-246 (J3P-20) is being developed. UXO clearance at the J1P-18 pad and the access road is going slowly due to frag. A walk-thru of J2P-17 is scheduled for noon. Drilling at the J3P-26, Snake Pond spit location has been rescheduled to begin 12/02 in consideration of the property owners and to avoid security issues that would result from leaving the drill rig unattended over the long Thanksgiving holiday.

Bourne Update

Bill Gallagher (IAGWSPO) summarized recent Bourne-related activities.

- Weekly and monthly sampling of Bourne monitoring and supply wells continues with no new significant results.
- Regarding the status of the MW-219M1 resampling, the S interval (183 ft bwt) profile validated result was reviewed and revalidated as non detect. A Corrective Action Report has been prepared to support this decision. At the BWD's request, the pump in this well (screened from 170-180 feet bwt) was lowered to the bottom of the screen (to be closer to the profile detect at 183 ft bwt) and another groundwater sample collected. Results for this sample were non detect for perchlorate.

- The Guard has agreed to proceed with the installation of WS4P-4, upgradient of WS-4. WS4P-3 is a contingency well. As part of the ROA process, an archeological survey was originally requested for this area. The Corps has devised a method to build the well access road with wood chips, sand, fabric, and other construction materials that Dr. Goodfellow has indicated will alleviate the requirement for a survey. Therefore, the ROAs for both WS4P-4 and WSP4P-3 will be redone specifying this requirement. Of any of the proposed locations, access to WS4P-4 appears to be the most difficult; therefore if the road can be completed as designed for this location, a similar road should be able to be constructed for the other proposed locations. To date this approach has only been approved for the WS4P-4 and P-3 locations.
- The Bourne Water District and Haley and Ward would like to have the upgradient groundwater quality information for WS-4 by March '03, so that WS-4 can be placed on line by Spring '03. The Guard should be able to meet that schedule for the P-4 and P-3 wells. These wells are scoped to be completed with 10-foot screens at the intervals of profile detections. If there are no detections, the Guard will consult with the BWD on the depth of screens, but the screen length will be 10 feet.
- Although the process of well installation will be the same for AFCEE-funded P-5 and P-6 wells, Haley and Ward have indicated they are considering the installation of 20 to 40 ft screens. The Guard has indicated their preference for 10-foot screens to the BWD.
- The Bourne Perchlorate Response Plan is being revised for submittal to the agencies on 11/18.
- Regarding source evaluation, sampling at gun and mortar firing positions is being proposed in the Response Plan. ECC is also putting together a separate, phased scope of work under the MSP program to look for sources in an area west of Range Control. This workplan to be submitted in 2003.

Scrap Update

Gina Kaso (ACE) provided an update on issues regarding the Scrap Yard.

- Information that EPA/MADEP requested at the 11/7 Tech meeting was forwarded via email. The agency chemists are reviewing the data.
- The Corps is evaluating the cost for two options to address the water collected from the Scrap Yard pad before the last steam cleaning. One option is treatment with GAC and disposal at the MMR WWTP. The second option is disposing of the wastewater at an off-site facility. The Corps intends to provide for the agencies review the overall costs of both options and notification of which option was selected for disposal of the wastewater.
- Todd Borci indicated Ben Gregson (IAGWPSO) had agreed to provide the EPA with the complete cost information and option selected by the Corps, followed by additional discussion of the preferred option, if needed.

Miscellaneous

- LTC FitzPatrick (E&RC) summarized the status of the programmatic agreement for ROA review and approval being pursued by Dr. Sue Goodfellow. A written update composed by Dr. Goodfellow was also distributed. The programmatic agreement to address all Guard sites in Massachusetts has been drafted and is undergoing legal review at the National Guard Bureau. An informal copy was provided to SHPO and the tribe. The SHPO office indicated they did not have the time to preview the document prior to the formal submittal because of staff limitations. Todd Borci expressed concern about possible issues with the agreement because of its statewide implications. Mr. Borci requested the Guard consider an MMR-specific agreement if issues not applicable to MMR delayed approval of the agreement.

- Len Pinaud (MADEP) requested further discussion after the Tech meeting on an IART Action Item and the Army Audit information as emailed by Joel Feigenbaum.
- Mr. Pinaud also inquired if the Corps/Guard was aware of the synoptic water level round that was to be conducted at AFCEE's FS-12 site. Heather Sullivan (ACE) responded that the Corps was aware of this activity and was planning to complete a concurrent water level survey of select Southeast Ranges wells.
- Rob Foti (ACE) indicated drilling of D1P-16 in the Demo 1 Area is progressing slowly due to silt layers.

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 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:

<u>Bourne Wellfield</u>

- Groundwater samples from 97-5, 02-09M1, M2, 02-13M2, M3, and MW-233M3 had detections of perchlorate. The results were similar to the previous sampling rounds.

- Groundwater samples from 02-12M1 had a detection of chloroform.

<u>Downgradient of the Central Impact Area</u>

- Groundwater samples from MW-201M1, M2 and MW-223M2 had detections of RDX that were confirmed by PDA spectra. The results were similar to the previous sampling rounds.

<u>Southeast Ranges</u>

- Groundwater samples from MW-198M3, M4 and MW-227M1 had detections of explosives that were confirmed by PDA spectra. The results were similar to the previous sampling rounds.

- Groundwater samples from MW-241M1 had detections of 1,3,5-trinitobenzene, 1,3-dinitrobenzene, 2,4-DANT, 2,6-DNT, 2A-DNT, 4A-DNT, RDX, nitrobenzene, nitroglycerin, and picric acid. The detections were not confirmed by PDA spectra. This is the first sampling event and the results were consistent with the profile results.

- Groundwater samples from MW-242M1 had detections RDX, TNT, 2,6-DNT, 2-nitrotoluene, 4A-DNT, 4-nitrotoluene, and picric acid. The detection of RDX was confirmed by PDA spectra, but with interference. This is the first sampling event and the results were consistent with the profile results, except that RDX was not detected in profile samples.

DELIVERABLES SUBMITTED

Weekly Progress Update for October 28 – November 1, 2002	11/11/2002
Draft Bourne Perchlorate Response Plan	11/15/2002

3. SCHEDULED ACTIONS

Scheduled actions for the week of November 18 include complete drilling of MW-248 (D1P-16), continue drilling of MW-249 (CIAP-14), and commence drilling of MW-250 (J3P-19).

4. SUMMARY OF ACTIVITIES FOR DEMO 1

Additional delineation of the downgradient portion of the groundwater plume is being conducted prior to finalizing the Feasibility Study for the Groundwater Operable Unit and as the Interim Action for groundwater remediation is being designed. Pumping and treating groundwater at the toe of the Demo 1 plume and at Frank Perkins Road has been selected as an Interim Action to address the Demo 1 Area Groundwater Operable Unit. A Rapid Response Action/Release Abatement Measure (RRA/RAM) is also being planned to address soil contamination at Demo 1. UXO clearance at proposed monitoring well location D1P-18 will be initiated next week. Drilling of MW-248 (D1P-16) continued for plume delineation.

TABLE 2
SAMPLING PROGRESS
11/10/2002 - 11/16/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
J2.A.T2K.021.3.0	J2.T2K.021.R	11/14/2002	CRATER GRAB	0.00	0.17		
SP.A.001.3.0	SP.001.R	11/14/2002	CRATER GRAB	0.00	0.17		
SP.A.001.3.D	SP.001.R	11/14/2002	CRATER GRAB	0.00	0.17		
SP.A.002.3.0	SP.002.R	11/14/2002	CRATER GRAB	0.00	0.17		
SP.A.003.3.0	SP.003R	11/14/2002	CRATER GRAB	0.00	0.17		
J2.A.T2K.021.1.0	J2.T2K.021.R	11/13/2002	CRATER GRID	0.00	0.17		
J2.A.T2K.021.1.D	J2.T2K.021.R	11/13/2002	CRATER GRID	0.00	0.17		
J2.A.T2K.021.2.0	J2.T2K.021.R	11/14/2002	CRATER GRID	0.00	0.17		
SP.A.001.1.0	SP.001.R	11/13/2002	CRATER GRID	0.00	0.17		
SP.A.001.2.0	SP.001.R	11/14/2002	CRATER GRID	0.00	0.17		
SP.A.002.1.0	SP.002.R	11/13/2002	CRATER GRID	0.00	0.17		
SP.A.002.2.0	SP.002.R	11/14/2002	CRATER GRID	0.00	0.17		
SP.A.003.1.0	SP.003.R	11/13/2002	CRATER GRID	0.00	0.17		
SP.A.003.2.0	SP.003R	11/14/2002	CRATER GRID	0.00	0.17		
0.G.0.0UR08.0.E	FIELDQC	11/13/2002	FIELDQC	0.00	0.00		
0.G.0.0UR09.0.E	FIELDQC	11/14/2002	FIELDQC	0.00	0.00		
97-1E	FIELDQC	11/14/2002	FIELDQC	0.00	0.00		
G248DHE	FIELDQC	11/12/2002	FIELDQC	0.00	0.00		
G248DIE	FIELDQC	11/13/2002	FIELDQC	0.00	0.00		
G248DLE	FIELDQC	11/14/2002	FIELDQC	0.00	0.00		
G248DME	FIELDQC	11/15/2002	FIELDQC	0.00	0.00		
HCA11120201BGE	FIELDQC	11/14/2002	FIELDQC	0.00	0.00		
HDA11120201AE	FIELDQC	11/15/2002	FIELDQC	0.00	0.00		
W02-12M1T	FIELDQC	11/11/2002	FIELDQC	0.00	0.00		
W200M1F	FIELDQC	11/11/2002	FIELDQC	0.00	0.00		
W225M2T	FIELDQC	11/14/2002	FIELDQC	0.00	0.00		
4036000-01G	4036000-01G	11/12/2002	GROUNDWATER			6.00	12.00
4036000-03G	4036000-03G	11/12/2002	GROUNDWATER	50.00	60.00	6.00	12.00
4036000-04G	4036000-04G	11/12/2002	GROUNDWATER			6.00	12.00
4036000-06G	4036000-06G	11/12/2002	GROUNDWATER			6.00	12.00
TW1-88A-A	1-88	11/11/2002	GROUNDWATER		102.90	0.00	67.40
W02-12M1A	02-12	11/11/2002	GROUNDWATER	109.00	119.00	58.35	68.35
W02-12M2A	02-12	11/11/2002	GROUNDWATER	94.00	104.00	43.21	53.21
W02-12M3A	02-12	11/11/2002	GROUNDWATER	79.00	89.00	28.22	38.22
W02-13M1A	02-13	11/11/2002	GROUNDWATER	98.00	108.00	58.33	68.33
W02-13M2A	02-13	11/11/2002	GROUNDWATER	83.00	93.00	44.20	54.20
W02-13M3A	02-13	11/11/2002	GROUNDWATER	68.00	78.00	28.30	38.30
W02-13M3D	02-13	11/11/2002	GROUNDWATER	68.00	78.00	28.30	38.30
W114M1A	MW-114	11/13/2002	GROUNDWATER	177.00	187.00	96.00	106.00
W114M2A	MW-114	11/13/2002	GROUNDWATER	120.00	130.00	39.00	49.00
W129M1A	MW-129	11/13/2002	GROUNDWATER	136.00	146.00	66.00	76.00
W129M2A	MW-129	11/13/2002	GROUNDWATER	116.00	126.00	46.00	56.00
W129M2D	MW-129	11/13/2002	GROUNDWATER	116.00	126.00	46.00	56.00
W129M3A	MW-129	11/13/2002	GROUNDWATER	96.00	106.00	26.00	36.00

Profiling methods include: Volatiles, Explosives and Perchlorate
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
11/10/2002 - 11/16/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W139M1A	MW-139	11/13/2002	GROUNDWATER	194.00	204.00	110.00	120.00
W139M2A	MW-139	11/13/2002	GROUNDWATER	154.00	164.00	70.00	80.00
W139M3A	MW-139	11/13/2002	GROUNDWATER	119.00	129.00	35.00	45.00
W162M1A	MW-162	11/13/2002	GROUNDWATER	190.50	200.50	114.29	124.29
W162M2A	MW-162	11/14/2002	GROUNDWATER	125.50	135.50	49.29	59.29
W162M3A	MW-162	11/15/2002	GROUNDWATER	85.50	95.50	9.29	19.29
W165M1A	MW-165	11/13/2002	GROUNDWATER	184.50	194.50	106.00	116.00
W173M1A	MW-173	11/14/2002	GROUNDWATER	243.00	253.00	104.20	114.20
W173M2A	MW-173	11/14/2002	GROUNDWATER	208.00	218.00	72.20	82.20
W173M3A	MW-173	11/15/2002	GROUNDWATER	188.00	198.00	52.20	62.20
W212M1A	MW-212	11/12/2002	GROUNDWATER	333.00	343.00	125.60	135.60
W212M2A	MW-212	11/12/2002	GROUNDWATER	308.00	318.00	98.60	108.60
W225M1A	MW-225	11/12/2002	GROUNDWATER	175.00	185.00	77.10	87.10
W225M1D	MW-225	11/12/2002	GROUNDWATER	175.00	185.00	77.10	87.10
W225M2A	MW-225	11/14/2002	GROUNDWATER	145.00	155.00	46.48	56.48
W225M3A	MW-225	11/14/2002	GROUNDWATER	125.00	135.00	26.48	36.48
W231M1A	MW-231	11/14/2002	GROUNDWATER	210.00	220.00	104.15	114.15
W231M2A	MW-231	11/14/2002	GROUNDWATER	165.00	175.00	58.33	68.33
W239M1A	MW-239	11/12/2002	GROUNDWATER	180.00	190.00	159.80	169.80
W239M2A	MW-239	11/12/2002	GROUNDWATER	150.00	160.00	129.85	139.85
W239M3A	MW-239	11/12/2002	GROUNDWATER	60.00	70.00	39.85	49.85
W240M1A	MW-240	11/12/2002	GROUNDWATER	198.00	208.00	100.00	110.00
W240M2A	MW-240	11/14/2002	GROUNDWATER	125.00	135.00	26.45	36.45
W240M3A	MW-240	11/14/2002	GROUNDWATER	105.00	115.00	6.45	16.45
W243M2A	MW-243	11/12/2002	GROUNDWATER	84.50	94.50	15.82	25.82
W243M3A	MW-243	11/13/2002	GROUNDWATER	69.50	79.50	0.81	10.81
XXM971-A	97-1	11/14/2002	GROUNDWATER	83.00	93.00	62.00	72.00
XXM971-D	97-1	11/14/2002	GROUNDWATER	83.00	93.00	62.00	72.00
XXM972-A	97-2	11/13/2002	GROUNDWATER	75.00	85.00	53.00	63.00
DW111202-NV	GAC WATER	11/12/2002	IDW				
DW111402-NV	GAC WATER	11/14/2002	IDW				
G248DHA	MW-248	11/12/2002	PROFILE	190.00	190.00	76.80	76.80
G248DIA	MW-248	11/13/2002	PROFILE	200.00	200.00	86.80	86.80
G248DJA	MW-248	11/13/2002	PROFILE	210.00	210.00	96.80	96.80
G248DKA	MW-248	11/13/2002	PROFILE	220.00	220.00	106.80	106.80
G248DLA	MW-248	11/14/2002	PROFILE	230.00	230.00	116.80	116.80
G248DMA	MW-248	11/15/2002	PROFILE	240.00	240.00	126.80	126.80
G248DNA	MW-248	11/15/2002	PROFILE	250.00	250.00	136.80	136.80
HCA11120201BG	A11120201	11/14/2002	SOIL GRID	0.00	0.16		

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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 10/25/02 - 11/16/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W02-09M1A	02-09	11/06/2002	GROUNDWATEF	74.00	84.00	65.26	75.26	E314.0	PERCHLORATE	
W02-09M2A	02-09	11/06/2002	GROUNDWATEF	59.00	69.00	50.30	60.30	E314.0	PERCHLORATE	
W02-13M2A	02-13	11/11/2002	GROUNDWATEF	83.00	93.00	44.20	54.20	E314.0	PERCHLORATE	
W02-13M3A	02-13	11/11/2002	GROUNDWATEF	68.00	78.00	28.30	38.30	E314.0	PERCHLORATE	
W233M3A	MW-233	11/07/2002	GROUNDWATEF	231.00	241.00	32.80	42.80	E314.0	PERCHLORATE	
XXM975-A	97-5	11/07/2002	GROUNDWATEF	84.00	94.00	76.00	86.00	E314.0	PERCHLORATE	
W198M3A	MW-198	11/06/2002	GROUNDWATEF	100.00	105.00	78.50	83.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
W198M3A	MW-198	11/06/2002	GROUNDWATEF	100.00	105.00	78.50	83.50	8330N	OCTAHYDRO-1,3,5,7-TETRANIT	YES
W198M4A	MW-198	11/01/2002	GROUNDWATEF	70.00	75.00	48.40	53.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
W198M4A	MW-198	11/01/2002	GROUNDWATEF	70.00	75.00	48.40	53.40	8330N	OCTAHYDRO-1,3,5,7-TETRANIT	YES
W201M1A	MW-201	11/08/2002	GROUNDWATEF	306.00	316.00	106.90	116.90	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
W201M2A	MW-201	11/08/2002	GROUNDWATEF	286.00	296.00	86.90	96.90	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
W201M2D	MW-201	11/08/2002	GROUNDWATEF	286.00	296.00	86.90	96.90	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
W223M2A	MW-223	11/05/2002	GROUNDWATEF	185.00	195.00	93.31	103.31	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
W227M1A	MW-227	11/04/2002	GROUNDWATEF	130.00	140.00	76.38	86.38	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES
W241M1A	MW-241	11/08/2002	GROUNDWATEF	97.00	107.00	2.75	12.75	8330N	1,3,5-TRINITROBENZENE	NO
W241M1A	MW-241	11/08/2002	GROUNDWATEF	97.00	107.00	2.75	12.75	8330N	1,3-DINITROBENZENE	NO
W241M1A	MW-241	11/08/2002	GROUNDWATEF	97.00	107.00	2.75	12.75	8330N	2,4-DIAMINO-6-NITROTOLUENE	NO
W241M1A	MW-241	11/08/2002	GROUNDWATEF	97.00	107.00	2.75	12.75	8330N	2,6-DINITROTOLUENE	NO
W241M1A	MW-241	11/08/2002	GROUNDWATEF	97.00	107.00	2.75	12.75	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
W241M1A	MW-241	11/08/2002	GROUNDWATEF	97.00	107.00	2.75	12.75	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
W241M1A	MW-241	11/08/2002	GROUNDWATEF	97.00	107.00	2.75	12.75	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	NO
W241M1A	MW-241	11/08/2002	GROUNDWATEF	97.00	107.00	2.75	12.75	8330N	NITROBENZENE	NO
W241M1A	MW-241	11/08/2002	GROUNDWATEF	97.00	107.00	2.75	12.75	8330N	NITROGLYCERIN	NO
W241M1A	MW-241	11/08/2002	GROUNDWATEF	97.00	107.00	2.75	12.75	8330N	PICRIC ACID	NO
W242M1A	MW-242	11/07/2002	GROUNDWATEF	235.00	245.00	141.68	151.68	8330N	2,4,6-TRINITROTOLUENE	NO
W242M1A	MW-242	11/07/2002	GROUNDWATEF	235.00	245.00	141.68	151.68	8330N	2,6-DINITROTOLUENE	NO
W242M1A	MW-242	11/07/2002	GROUNDWATEF	235.00	245.00	141.68	151.68	8330N	2-NITROTOLUENE	NO
W242M1A	MW-242	11/07/2002	GROUNDWATEF	235.00	245.00	141.68	151.68	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
W242M1A	MW-242	11/07/2002	GROUNDWATEF	235.00	245.00	141.68	151.68	8330N	4-NITROTOLUENE	NO
W242M1A	MW-242	11/07/2002	GROUNDWATEF	235.00	245.00	141.68	151.68	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,	YES*
W242M1A	MW-242	11/07/2002	GROUNDWATEF	235.00	245.00	141.68	151.68	8330N	PICRIC ACID	NO
W02-12M1A	02-12	11/11/2002	GROUNDWATEF	109.00	119.00	58.35	68.35	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
SED = SAMPLE COLLECTION END DEPTH IN FEET BGS
BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET
BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
PDA/YES = Photo Diode Array, Detect Confirmed
PDA/NO = Photo Diode Array, Detect Not Confirmed
* = Interference in sample