WEEKLY PROGRESS UPDATE
FOR MARCH 25 – MARCH 29, 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 March 25 to March 29, 2002.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of March 29 is summarized in Table 1.

Table 1. Drilling progress as of March 29, 2002

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-210	Demo Area 1 (D1P-9)	310	209	
02-02	Bourne monitoring well	125	74	114.5-124.5; 94.5-104.5; 49.5-59.5
02-03	Bourne monitoring well	140	98	130-140; 92-102; 75-85
02-05	Bourne monitoring well	133	105	
02-09	Bourne monitoring well	150	141	
02-12	Bourne monitoring well	153	104	
02-13	Bourne monitoring well	60	22	

bgs = below ground surface
bwt = below water table

Completed well installation of 02-02 and 02-03, completed drilling of well MW-210 (D1P-9), 02-05, 02-9, and 02-12, and commenced drilling of 02-13. Continued well development for newly installed wells.

Samples collected during the reporting period are summarized in Table 2. Groundwater profile samples were collected from wells 02-05, 02-09, 02-12, 02-13 and MW-210. Groundwater samples were collected from Bourne water supply wells, sentry wells, test wells, and far field wells. Groundwater samples were collected from the Sandwich Fish Hatchery production wells. Water samples were collected from the GAC treatment system. Surface water samples were collected from Snake Pond. Soil samples were collected from grids at Demo Area 1 and A Range. Wipe samples were collected from the Melt/Pour Building as a part of building decommissioning activities and from the lid of a 55-gallon drum during the crushed drum removal, both at the J-3 Range. A soil sample was also collected at the base of the drum excavation in the J-3 Range. Performance evaluation samples were prepared and sent to the laboratories.

The Guard, EPA, and MADEP had a meeting on March 28 to discuss technical issues, including the following:

Attendees

Ben Gregson (IAGWSPO)	Tina Dolen (IAGWSPO)	Karen Wilson (IAGWSPO)
LTC Bill FitzPatrick (MAARNG)	Mike Jasinski (EPA)	Todd Borci (EPA)
Desiree Moyer (EPA)	Jim Murphy (EPA)	Len Pinaud (MADEP)
Mark Panni (MADEP)	Darrell Deleppo (ACE)	Gina Tyo (ACE)
Ellen Iorio (ACE)	Heather Sullivan (ACE-phone)	Frank Fedele (ACE)
Rob Foti (ACE)	Marc Grant (AMEC)	John Rice (AMEC)
Jay Clausen (AMEC-phone)	Russell Johnson (AMEC)	Kim Harriz (AMEC)
Larry Hudgins (Tetra Tech)	Joe Dauchy (Tetra Tech-phone)	Dave Williams (MDPH)
Adam Balogh (TRC-phone)	Ken Gaynor (Jacobs)	Kris Curley (Guild)
Ralph Marks (Bourne Water Dist.)	Leo Yuskus (Haley & Ward-phone)	

Punchlist Items

#2 Provide RAD results for MW-181 (AMEC). Jay Clausen (AMEC) reviewed outstanding results.
Radon results for water below detectable activity.
Thorium (228/230/232) results in water indicated activity levels of –0.16/0.58/0.026 pCi/L. Levels appear to be consistent with background levels.
Thorium (228/230/232) results for sediment in the profile sample indicated activities of 5.4/2.3/2.01 pCi/g. No comparison background values were identified.
Radium 228 water results indicate an activity of 53.5 pCi/L. The initial Ra-226 result was 24.2 pCi/L, but a recount (twice) yielded a value of 80.9 pCi/L. A second duplicate analysis result showed 1.85/4.94 pCi/L for 226/228. The gamma-spectroscopy results indicated that Ra-226 was nondetectable. The MCL for total radium is 5 pCi/L. The mean Ra-226 activity for municipal supply wells in MA is 0.2 pCi/L. Therefore, for both results, the sample exceeds the MCL for total radium.
Radium for sediment in the profile sample indicated results of Ra-228 were 1.43 pCi/L; and 6.06/2.09 (recount) pCi/L for Ra-226.
Validation is being completed for these results. Summary write-up to be provided next week, pending receipt of validated data.

#5 Provide list of ASP stored items containing Perchlorate (Corps). To be provided at 4/4 Tech meeting.

#6 Provide data from Snake Pond Drive Point sampling effort (AMEC). Perchlorate results due 4/3. Explosives results available shortly, will fax when received. To be discussed on next week's agenda.

#7 Provide updated maps for SE Corner of the Ranges (AMEC). Todd Borci (EPA) requested that AMEC review status of validated data and discuss new results at 4/4 Tech meeting as agenda item. At that time, a date should be provided for revision of plume maps.

Munitions Survey Project Update

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

HUTA2. Intrusive work continued at Transects 2&3&4. Final EM61 survey has been completed for 12 of 28 grids in Transect 2, cleared total of 2422 lbs of scrap material. Final EM61 survey will be completed today for Transect 3, 3129 lbs of scrap material cleared. For Transect 4, investigation will be completed today; 8600 lbs of scrap material cleared. Karen Wilson (IAGWSPO) to visit site to provide approval of restoration activities.

- Todd Borci (EPA) requested that EM61 results of final survey for Transect 4 be provided at the next Tech meeting. Mr. Borci also requested that Tetra Tech provide a list of items that were taken from HUTA2 and sent to the CDC. A HUTA2 reports' discussion should be scheduled for a 4/4 after meeting. The discussion will include maps and how to present data.

- Ellen Iorio (ACE) stated that BA-1 Workplan will not be submitted until April 8. A presentation on the Eastern Test Site MSP will be presented at the April 11 Tech Meeting; anomaly picks will be reviewed.

Central Impact Area Proposed Wells

Heather Sullivan (ACE) indicated that based on recent profile results, the Guard is considering moving previously proposed well locations and adding additional wells in the Central Impact Area. A map was distributed showing wells installed to date, and contour lines of the RDX detections above detection and above the health advisory of 2 ppb. Dashed lines indicated results based on profile samples.

- No drilling activity is currently being conducted in the Central Impact Area, these resources have been switched to the Bourne investigation. AMEC is attempting to bring in another drill rig next week. Clearance of CIAP-23 is being conducted this week and will be the next well to be drilled.
- **CIAP-25**: The Guard would like to move this proposed location further west toward MW-102/103, because of detections in MW-209. Todd Borci suggested that profile depth and screen depth of MW-103/102/123/124 be reviewed relative to the depth of the MW-209 detections to see if these former wells are deep enough.
- **MW-207 (CIAP-18)**: Because of higher detection (up to 23 ppb) in profile samples at MW-207, the Guard feels another well is needed downgradient of this location. A suggested location is northwest along the particle track from MW-23 about 1300 feet from MW-207 in the road clearing of the Gravity Anti-Tank Range. AMEC to review accessibility of potential drilling location.
- Additional well locations (beyond approved locations) to be discussed at the 4/25 Tech meeting.
- Further discussion of CIAP-25 location and downgradient location from CIAP-18 to be discussed at 4/4 Tech meeting.

Long Term Ground Water Monitoring Plan Highlights

Russ Johnson (AMEC) reviewed highlights of the Long Term Groundwater Monitoring Plan that will be submitted tomorrow 3/29.

- The Plan involved the complete review of sample history for all wells already in the Long Term Monitoring Program. 75 new wells, installed over the past year were added to the plan. All wells that were included in last year's LTGM Program were retained this year, although some analytes for these wells were eliminated because of successive non-detections.
- Several wells having three rounds of data as of February 26, 2002 were added to the LTGM Plan, including screens at MW-115, MW-138, MW-140, MW-142 through MW-158, MW-160 through MW-168, MW-170, and MW-173 through MW-175
    a. primarily the addition of explosives and perchlorate at several wells;
    b. herbicides – to determine if MCPP detections were false-positives at two wells;
    c. pesticides – only at one well, MW-156S at former ASP;
    d. SVOCs – at four wells to assess low-level, repeat detections of naphthalene;
    e. VOCs – to assess detections of PCE (one well) and TCE (three wells);
    f. metals – at three wells along Greenway Road to assess elevated concentrations of sodium; and
    g. other specific recommendations for Phase II B sites.
- Use of Method 8330NX for Comprehensive Annual Event (i.e., August 2002) only at wells where RDX was previously detected; Method 8330N at other events/wells
    a. Conservative - MNX not detected where RDX < 4.5 ug/L; TNX and/or DNX not detected where RDX < 88 ug/L

- Perchlorate – employ plume monitoring rationale for monitoring appropriate wells
    a. Demo 1 and SE Ranges - use primary/secondary/tertiary well concept for plume monitoring; use up-, down- and cross-gradient well concept for monitoring plume periphery
    b. Central Impact Area - sample wells three times per year where perchlorate was previously detected; resample several wells where perchlorate previously non-detect using lower detection limits; develop plume monitoring network based on these findings
- Method 7841 (Thallium and Antimony analysis) - findings from over 250 samples since switching to this method:
    a. Antimony - three detections (1.5*, 1.7*, and 1.5J ug/L), all below MCL of 6 ug/L
    b. Thallium - no detections
- PCB/Pesticides removed as analyte from LTGM Plan wells
    a. Exception - MW-156S at former ASP for pesticides
- Gross Alpha removed from LTGM Plan wells
    a. highest detect was 3.4 pCi/L (MCL is 15) in one of the early events
    b. no gross alpha detected in any LTGM Plan well for the two most recent events.
    c. Todd Borci indicated that wells in the vicinity of MW-181 should have some evaluation for gross alpha. Mr. Johnson to discuss with Jay Clausen (AMEC).
- Dioxins/Furans removed from LTGM Plan for Demo 1 Area
    a. likely due to field and or laboratory sources
    b. well below federal and state drinking water standards of 30 ppb TEQ and Region IX PRG of 0.45 ppb TEQ for tap water
- Dyes
    a. four wells at Demo 1 to be sampled a third time (no detects to date)
    b. well MW-130S to be sampled 3x/year due to recent detections of DDA
- VOCs – pertaining to the 53 wells requested by EPA for the Dec '01 event
    a. no detections above MCLs/HA
    b. only two VOCs detected other than acetone (<2 ug/L) and chloroform (<5 ug/L), including benzene (0.3J* ug/L) and chloromethane (0.3J ug/L)
    c. no evidence to support incorporation into the LTGM Plan for continued VOC analysis in 2002
- SVOCs – regarding 16 additional LF-1 wells requested by EPA for the Dec '01 event
    a. no explosives detected using either Methods 8330 or SW8270
    b. no explosives detected in well MW-167M3 at downgradient edge of BA-1
    c. wells MW-167M3 and 27MW0017A to be sampled for explosives and SVOCs once per annum, starting in August 2002
- Follow-on discussion of plan to be agenda item for 4/4 Tech meeting. Demo 1 wells to be discussed specifically, so that potentially, with the agencies'approval, AMEC can begin April 2002 round of monitoring at these wells.

Bourne Well Update

John Rice (AMEC) provided an update on the status of the Bourne Response Plan. Maps of the Bourne well field were distributed, showing existing and proposed locations.

- Proposed monitoring wells 02-1, 02-2, 02-3, 02-5, and 02-12 have been drilled and profiled. Drilling of 02-9 will be finished shortly, other rig mobilizing to 02-13 today. Next location after that will be 02-8.
- Some results for 02-5, 02-12, and 02-9 are still outstanding. Latest results show that perchlorate was detected at 0.5 ppb in one profile sample from 02-5.
- Bourne Water Supply wells are being sampled weekly; samples were collected yesterday, 3/27.

- All wells that were included in the first sampling round have been surveyed; the surveyed coordinates should be available shortly. One synoptic water level round has been completed, but another one is needed. 1-88 and other wells will be surveyed after initial survey results are received. Water table map should be available at the 4/4 Tech meeting, as requested by the agencies.
- Leo Yuskus (Haley and Ward) requested that the M Series wells be sampled (M-1 (not shown on map), M-2, M-3, M-4, M-5, M-7) to see how far to the south the contamination has migrated. These wells to be sampled at three positions along a single 20-foot screen as for M-6. Results for M-6 showed non detects at all three positions (top, middle and bottom) along the screen. Mr. Yuskus also requested that 97-2 series sentry wells around Production Well 6 be sampled. 97-2e has already been sampled. Additional wells for sampling include b,c,d,f, and g wells. Mr. Yuskus to provide well logs for these wells as soon as tomorrow 3/29. AMEC potentially can begin sampling these wells tomorrow or Monday 4/1, depending on availability of well tubing. AMEC will continue with monthly Bourne sampling until logs and tubing are procured. The 97-2 sentry wells will be the first priority and then the M series wells. The monthly monitoring can be continued once these wells are sampled.
- In terms of additional wells, AMEC proposed a new monitoring well 600 feet southwest of 02-9 location and equidistant between 97-5 and M-6. This location on Conversation Commission land would be more readily accessible than previously proposed 02-6 location on Conservation Commission land. An additional proposed well was suggested at the approximate location of M-6. Ben Gregson (IAGWSPO) favored drilling this well first, in case the perchlorate contamination had advanced this far south in the area. All three of these locations to be reviewed with the Conversation Commission on 4/1 at 9am. The Conversation Commission's particular concern was that the drilling not impact walking trails in the area. Conscom to be meeting on Wednesday 4/3.
- In a related matter, while AMEC was sampling WS-4, the measuring tape got stuck in the well. A down-hole camera revealed that the well is blocked with rocks at approximately 135 feet bgs. AMEC to determine what needs to be done to fix the well; Guard to determine well ownership and seek permission to fix the well.
- Pursuant to the potential use of Base Water Supply well, WS-4 for emergency water resources for Bourne, the Bourne Water District would like to conduct a 5-day pump test of WS-4 within the month to determine the well capacity and quality. The water district would also like two monitoring wells to be installed upgradient for monitoring groundwater quality.
- Ben Gregson relayed that there had been a question at the Senior Management Bourne meeting regarding lab data reliability. Are the low levels of perchlorate we are seeing real? Marc Grant pointed out that routine QA protocols including calibration standards and blind performance standards have proven out that the E314.0 method is reliable. AFCEE intends to send certified spiked samples to test the laboratory's performance.
- Jay Clausen (AMEC) indicated that AMEC has prepared a perchlorate comparison study using Ceimic (the lab that does the E314.0 method), ARA and Acculabs. ARA has both a colorimetric method that is sensitive to 1 ppb, possibly 0.2 ppb and an IC Method that looks at ion pairs. The comparison study would involve sending samples from a Bourne water supply well with perchlorate detections, samples from 97 series sentry wells that have had detections, and 6 or so profile samples to be analyzed by all the labs.
- Jay Clausen announced that Dr. Fred Cannon (Pennsylvania State University) would be providing a presentation on the use of Granular Activated Carbon for perchlorate treatment based on his experience with the Redland CA treatment system on 4/4 at 8am in the Groundwater Study Program Office.

- Leo Yuskus indicated that the Bourne Water District is approaching DEP, asking that the agency establish a health criteria for perchlorate that could be used to determine if supply wells containing trace levels could be used or not. Currently there is no firm guidance.
- **ACTION ITEMS**
  - 4/1 meeting with Conscom, 9 am to discuss additional well locations
  - sample 97-2 series wells. Logs to be forwarded to AMEC.
  - Sample M series wells.
  - Continue monthly monitoring.
  - Drill proposed well near M-6, pending agreement with Conscom.
  - 4/4 meeting with Dr. Cannon.
  - WS-4 assess how to remove rocks from well.
  - Water contour map to be provided next week.
  - Lab quality comparison study, pending.
  - DEP to advise on health advisory limit for perchlorate.

Cultural Resource Manager

- LTC William FitzPatrick announced that Dr. Susan Goodfellow has been hired with the Environmental Readiness Center to serve as the Cultural Resource Manager for army installations in Connecticut, Rhode Island, and Massachusetts. Dr. Goodfellow will be based at Camp Edwards. Her responsibilities will be to review any excavation, structure renovation/destruction plans relative to a cultural resources impact including those applicable to the Native American tribes.
- Karen Wilson (IAGWSPO) is giving Dr. Goodfellow time to acclimate, but will be incorporating her into the Record of Action process.
- Dr. Goodfellow to be added to distribution lists: Email address susan.goodfellow@ma.ngb.army.mil

Scrap Yard

- As part of a site reconnaissance yesterday 3/27, Todd Borci (EPA) and Desiree Moyer (EPA) made several observations regarding the scrap yard. The scrap yard, situated at the former RRA containment pad, is washed by rainwater that flows off the pad.
- Frank Fedele (ACE) indicated that the applicable storm water management plan is the Range Use plan, however there is no stormwater permit. The contractor has stopped work at the request of the Corps due to a number of safety and procedural concerns, but should be starting again as soon as next week, week of April 1.
- In terms of contamination associated with scrap, only one target so far has had an explosive detect. This and any other scrap items will be deconned prior to staging them at the pad.
- Mr. Borci indicated that a pile of OE scrap just west of the containment pad on the edge of the woods needs to be documented and the origin determined (from site preparation for pad development or mobilized from other area). The origin of this scrap may reflect on the use history of the area. Mr. Borci also observed a spot with a diesel odor but no associated staining. Was this area related to a recent release or something else, possibly a UST associated with the former airfield?
- Mr. Borci noted that the installation of the RRA Pad well is not on the combined investigation schedule. Because of these observations at the Scrap yard, EPA will likely request that this well be profiled for perchlorate and VOCs. Perchlorate because it is along the line of detects back from MW-80 and VOCs because of the proximity to the spot with the diesel odor.
- Mr. Borci also requested that the Range Control well be added to the perchlorate-sampling plan due to be submitted in a couple weeks.

- Desiree Moyer to review Stormwater Management Plan and scrap yard with Frank Fedele, week of April 1.

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:

- A groundwater sample from well 4036000-06G (Bourne supply well) had a detection of perchlorate.

- Groundwater samples from 97-1 (Bourne sentry well); MW-80S, 80M3, 80M2 and MW-81S, 81M2, 81M1, 81D (Bourne far field wells) had detections of chloroform.

- Groundwater samples from 97-2 and 97-5 (Bourne sentry wells) had detections of perchlorate and chloroform.

- Groundwater samples from 97-3 (Bourne sentry well) and a duplicate sample had detections of chloroform and TCE.

- A groundwater sample from 01-2 (Bourne) had a detection of chloroform. A duplicate groundwater sample had detections of chloroform and perchlorate.

- Groundwater profile samples from 02-05 (Bourne) had detections of 2A-DNT (1 interval), nitrobenzene (1 interval), nitroglycerin (1 interval), picric acid (1 interval), perchlorate (8 intervals), acetone (1 interval), chloroform (1 interval), and 2-butanone (1 interval). The explosive detections were not confirmed by PDA spectra.

- Groundwater profile samples from 02-09 (Bourne) had detections of 1,3-dinitrobenzene (3 intervals), nitroglycerin (4 intervals), HMX (1 interval), perchlorate (4 intervals), 2-hexanone (1 interval), acetone (14 intervals), benzene (1 interval), chloroethane (2 intervals), chloroform (13 intervals), chloromethane (5 intervals), 2-butanone (13 intervals), and toluene (1 interval). The explosive detections were not confirmed by PDA spectra.

- Groundwater profile samples from 02-12 (Bourne) had detections of acetone (4 intervals), chloroform (11 intervals), chloromethane (1 interval), 2-butanone (1 interval), TCE (1

interval), 2,6-DNT (2 intervals), nitroglycerin (2 intervals), and picric acid (1 interval). The detections of 2,6-DNT were confirmed by PDA spectra.

- Groundwater profile samples from MW-210 (Demo Area 1) had detections of 3-nitrotoluene (1 interval), 4A-DNT (1 interval), RDX (1 interval), nitroglycerin (1 interval), PETN (1 interval), picric acid (1 interval), perchlorate (6 intervals). The detection of RDX was confirmed by PDA spectra. The detection of 3-nitrotoluene was confirmed by PDA spectra, but with interference.

3. DELIVERABLES SUBMITTED

Weekly Progress Update for March 18 – March 22, 2002 03/29/02

4. SCHEDULED ACTIONS

Scheduled actions for the week of April 1 include complete well installation of MW-210 (D1P-9), 02-05 and 02-12 (Bourne), complete drilling of well 02-09 and 02-13 (Bourne), and commence drilling of wells 02-08, 02-04 (Bourne), and D1P-10. Soil sampling will continue at Supplemental Phase IIB sites.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Additional delineation of the downgradient portion of the groundwater plume will be conducted prior to finalizing the Feasibility Study for the Groundwater Operable Unit. Drilling for the first proposed monitoring well, D1P-9, was completed this week and monitoring well screen depths were selected based on profile results. An additional monitoring well location, D1P-10, was proposed approximately 350 feet south of MW-173 on Pew Road and has been approved. Drilling at the D1P-10 location will begin next week. Soil sampling in accordance with the Post-Screening Investigation Work Plan was completed this week.

TABLE 2
SAMPLING PROGRESS
03/23/2002 - 03/29/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
97-2DE	FIELDQC	03/29/2002	FIELDQC	0.00	0.00		
97-5E	FIELDQC	03/26/2002	FIELDQC	0.00	0.00		
97-5E	FIELDQC	03/28/2002	FIELDQC	0.00	0.00		
G02-05DKE	FIELDQC	03/25/2002	FIELDQC	0.00	0.00		
G02-05DKT	FIELDQC	03/25/2002	FIELDQC	0.00	0.00		
G02-09DCE	FIELDQC	03/27/2002	FIELDQC	0.00	0.00		
G02-09DCT	FIELDQC	03/27/2002	FIELDQC	0.00	0.00		
G02-09DJT	FIELDQC	03/28/2002	FIELDQC	0.00	0.00		
G02-09DLE	FIELDQC	03/29/2002	FIELDQC	0.00	0.00		
G02-12DEE	FIELDQC	03/26/2002	FIELDQC	0.00	0.00		
G02-13DBE	FIELDQC	03/29/2002	FIELDQC	0.00	0.00		
G02-13DBT	FIELDQC	03/29/2002	FIELDQC	0.00	0.00		
HC12AN1CAE	FIELDQC	03/26/2002	FIELDQC	0.00	0.00		
HC12AP1BAE	FIELDQC	03/27/2002	FIELDQC	0.00	0.00		
HC12AQ1AAE	FIELDQC	03/25/2002	FIELDQC	0.00	0.00		
HC157A1AAE	FIELDQC	03/28/2002	FIELDQC	0.00	0.00		
HC158A1CAE	FIELDQC	03/29/2002	FIELDQC	0.00	0.00		
TW01-2E	FIELDQC	03/25/2002	FIELDQC	0.00	0.00		
WS102U1AAA	102U	03/28/2002	GAUZE WIPE				
WS102VK1AAA	102VK	03/26/2002	GAUZE WIPE				
WS102VK2AAA	102VK	03/26/2002	GAUZE WIPE				
WS102VK3AAA	102VK	03/26/2002	GAUZE WIPE				
WS102VL1AAA	102VL	03/26/2002	GAUZE WIPE				
4036000-01G	4036000-01G	03/27/2002	GROUNDWATER				
4036000-03G	4036000-03G	03/27/2002	GROUNDWATER				
4036000-04G	4036000-04G	03/27/2002	GROUNDWATER				
4036000-06G	4036000-06G	03/27/2002	GROUNDWATER				
97-1	97-1	03/26/2002	GROUNDWATER	83.00	93.00	62.00	72.00
97-2	97-2	03/26/2002	GROUNDWATER	53.00	63.00	53.00	63.00
97-2DA	97-2D	03/29/2002	GROUNDWATER		115.40		82.90
97-2EA	97-2E	03/29/2002	GROUNDWATER				
97-3	97-3	03/27/2002	GROUNDWATER	75.00	85.00	36.00	46.00
97-3D	97-3	03/27/2002	GROUNDWATER	75.00	85.00	34.10	44.10
97-5	97-5	03/26/2002	GROUNDWATER	84.00	94.00	76.00	86.00
SANDHATCH1-EA	SANDHATCH1-E	03/29/2002	GROUNDWATER	0.00	0.00		
SANDHATCH1-ED	SANDHATCH1-E	03/29/2002	GROUNDWATER	0.00	0.00		
TW01-2A	01-2	03/25/2002	GROUNDWATER		47.00		21.20
TW01-2D	01-2	03/25/2002	GROUNDWATER		47.00		21.20
W80M2A	MW-80	03/27/2002	GROUNDWATER	100.00	110.00	56.00	66.00
W80M2A	MW-80	03/28/2002	GROUNDWATER	100.00	110.00	56.00	66.00
W80M3A	MW-80	03/27/2002	GROUNDWATER	70.00	80.00	26.00	36.00
W80SSA	MW-80	03/27/2002	GROUNDWATER	43.00	53.00	0.00	10.00
W80SSA	MW-80	03/28/2002	GROUNDWATER	43.00	53.00	0.00	10.00

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
03/23/2002 - 03/29/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W81DDA	MW-81	03/28/2002	GROUNDWATER	184.00	194.00	156.00	166.00
W81M1A	MW-81	03/27/2002	GROUNDWATER	128.00	138.00	100.00	110.00
W81M2A	MW-81	03/28/2002	GROUNDWATER	83.00	93.00	55.00	65.00
W81M3A	MW-81	03/28/2002	GROUNDWATER	53.00	58.00	25.00	30.00
W81SSA	MW-80	03/28/2002	GROUNDWATER	25.00	35.00	0.00	10.00
DW032902	GAC WATER	03/28/2002	IDW	0.00	0.00		
W199DDA	PESAMP	03/28/2002	PESAMP				
W199M1A	PESAMP	03/28/2002	PESAMP				
W199M2A	PESAMP	03/28/2002	PESAMP				
W199M3A	PESAMP	03/28/2002	PESAMP				
W199SSA	PESAMP	03/28/2002	PESAMP				
G02-05DKA	G02-05	03/25/2002	PROFILE	130.00	130.00	102.00	102.00
G02-09DAA	02-09	03/26/2002	PROFILE	12.00	12.00	2.90	2.90
G02-09DBA	02-09	03/27/2002	PROFILE	20.00	20.00	10.90	10.90
G02-09DCA	02-09	03/27/2002	PROFILE	30.00	30.00	20.90	20.90
G02-09DDA	02-09	03/27/2002	PROFILE	40.00	40.00	30.90	30.90
G02-09DEA	02-09	03/27/2002	PROFILE	50.00	50.00	40.90	40.90
G02-09DFA	02-09	03/27/2002	PROFILE	60.00	60.00	50.90	50.90
G02-09DGA	02-09	03/27/2002	PROFILE	70.00	70.00	60.90	60.90
G02-09DHA	02-09	03/27/2002	PROFILE	80.00	80.00	70.90	70.90
G02-09DHD	02-09	03/27/2002	PROFILE	80.00	80.00	70.90	70.90
G02-09DIA	02-09	03/27/2002	PROFILE	90.00	90.00	80.90	80.90
G02-09DJA	02-09	03/28/2002	PROFILE	100.00	100.00	90.90	90.90
G02-09DKA	02-09	03/28/2002	PROFILE	110.00	110.00	101.90	101.90
G02-09DLA	02-09	03/28/2002	PROFILE	120.00	120.00	110.90	110.90
G02-09DMA	02-09	03/28/2002	PROFILE	130.00	130.00	120.90	120.90
G02-09DNA	02-09	03/28/2002	PROFILE	140.00	140.00	130.90	130.90
G02-09DOA	02-09	03/29/2002	PROFILE	150.00	150.00	140.90	140.90
G02-12DAA	02-12	03/25/2002	PROFILE	51.00	53.00	2.00	4.00
G02-12DAA	02-12	03/26/2002	PROFILE	51.00	53.00	2.00	4.00
G02-12DBA	02-12	03/25/2002	PROFILE	60.00	60.00	11.00	11.00
G02-12DBA	02-12	03/26/2002	PROFILE	60.00	60.00	11.00	11.00
G02-12DCA	02-12	03/25/2002	PROFILE	70.00	70.00	21.00	21.00
G02-12DCA	02-12	03/26/2002	PROFILE	70.00	70.00	21.00	21.00
G02-12DDA	02-12	03/26/2002	PROFILE	80.00	80.00	31.00	31.00
G02-12DEA	02-12	03/26/2002	PROFILE	90.00	90.00	41.00	41.00
G02-12DFA	02-12	03/26/2002	PROFILE	100.00	100.00	51.00	51.00
G02-12DGA	02-12	03/26/2002	PROFILE	110.00	110.00	61.00	61.00
G02-12DHA	02-12	03/26/2002	PROFILE	12.00	120.00	71.00	71.00
G02-12DHA	02-12	03/26/2002	PROFILE	120.00	120.00	71.00	71.00
G02-12DIA	02-12	03/26/2002	PROFILE	130.00	130.00	81.00	81.00
G02-12DJA	02-12	03/26/2002	PROFILE	140.00	140.00	91.00	91.00
G02-12DKA	02-12	03/26/2002	PROFILE	150.00	150.00	101.00	101.00
G02-13DAA	02-13	03/29/2002	PROFILE	44.00	46.00	6.20	8.20

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
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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
03/23/2002 - 03/29/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G02-13DBA	02-13	03/29/2002	PROFILE	50.00	50.00	12.20	12.20
G210DLA	MW-210	03/25/2002	PROFILE	220.00	220.00	119.00	119.00
G210DMA	MW-210	03/25/2002	PROFILE	230.00	230.00	129.00	129.00
G210DNA	MW-210	03/25/2002	PROFILE	240.00	240.00	139.00	139.00
G210DOA	MW-210	03/25/2002	PROFILE	250.00	250.00	149.00	149.00
G210DPA	MW-210	03/25/2002	PROFILE	260.00	260.00	159.00	159.00
G210DQA	MW-210	03/25/2002	PROFILE	270.00	270.00	169.00	169.00
G210DRA	MW-210	03/25/2002	PROFILE	280.00	280.00	179.00	179.00
G210DSA	MW-210	03/25/2002	PROFILE	290.00	290.00	189.00	189.00
G210DTA	MW-210	03/25/2002	PROFILE	300.00	300.00	199.00	199.00
G210DUA	MW-210	03/25/2002	PROFILE	310.00	310.00	209.00	209.00
HC12AJ1AAA	12AJ	03/25/2002	SOIL GRID	0.00	0.25		
HC12AJ1BAA	12AJ	03/25/2002	SOIL GRID	0.25	0.50		
HC12AJ1CAA	12AJ	03/25/2002	SOIL GRID	0.50	1.00		
HC12AM1AAA	12AM	03/25/2002	SOIL GRID	0.00	0.25		
HC12AM1BAA	12AM	03/25/2002	SOIL GRID	0.25	0.50		
HC12AM1CAA	12AM	03/25/2002	SOIL GRID	0.50	1.00		
HC12AN1AAA	12AN	03/26/2002	SOIL GRID	0.00	0.25		
HC12AN1BAA	12AN	03/26/2002	SOIL GRID	0.25	0.50		
HC12AN1CAA	12AN	03/26/2002	SOIL GRID	0.50	1.00		
HC12AO1AAA	12AO	03/25/2002	SOIL GRID	0.00	0.25		
HC12AO1BAA	12AO	03/25/2002	SOIL GRID	0.25	0.50		
HC12AO1CAA	12AO	03/25/2002	SOIL GRID	0.50	1.00		
HC12AP1AAA	12AP	03/27/2002	SOIL GRID	0.00	0.25		
HC12AP1BAA	12AP	03/27/2002	SOIL GRID	0.25	0.50		
HC12AP1CAA	12AP	03/27/2002	SOIL GRID	0.50	1.00		
HC12AQ1AAA	12AQ	03/25/2002	SOIL GRID	0.00	0.25		
HC12AQ1BAA	12AQ	03/25/2002	SOIL GRID	0.25	0.50		
HC12AQ1CAA	12AQ	03/25/2002	SOIL GRID	0.50	1.00		
HC12AR1AAA	12AR	03/26/2002	SOIL GRID	0.00	0.25		
HC12AR1BAA	12AR	03/26/2002	SOIL GRID	0.25	0.50		
HC12AR1CAA	12AR	03/26/2002	SOIL GRID	0.25	0.50		
HC12AR1CAA	12AR	03/26/2002	SOIL GRID	0.50	1.00		
HC12AS1AAA	12AS	03/28/2002	SOIL GRID	0.00	0.25		
HC12AS1BAA	12AS	03/28/2002	SOIL GRID	0.25	0.50		
HC12AS1CAA	12AS	03/28/2002	SOIL GRID	0.50	1.00		
HC12AT1AAA	12AT	03/28/2002	SOIL GRID	0.00	0.25		
HC12AT1BAA	12AT	03/28/2002	SOIL GRID	0.25	0.50		
HC12AT1CAA	12AT	03/28/2002	SOIL GRID	0.50	1.00		
HC12AU1AAA	12AU	03/26/2002	SOIL GRID	0.00	0.25		
HC12AU1BAA	12AU	03/26/2002	SOIL GRID	0.25	0.50		
HC12AU1CAA	12AU	03/26/2002	SOIL GRID	0.50	1.00		
HC12AV1AAA	12AV	03/26/2002	SOIL GRID	0.00	0.25		
HC12AV1BAA	12AV	03/26/2002	SOIL GRID	0.25	0.50		

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

TABLE 2
SAMPLING PROGRESS
03/23/2002 - 03/29/2002

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC12AV1CAA	12AV	03/26/2002	SOIL GRID	0.50	1.00		
HC157A1AAA	157A	03/28/2002	SOIL GRID	0.00	0.25		
HC157A1BAA	157A	03/28/2002	SOIL GRID	0.25	0.25		
HC157A1CAA	157A	03/28/2002	SOIL GRID	0.50	1.00		
HC157B1AAA	157B	03/28/2002	SOIL GRID	0.00	0.25		
HC157B1BAA	157B	03/28/2002	SOIL GRID	0.25	0.25		
HC157B1CAA	157B	03/28/2002	SOIL GRID	0.50	1.00		
HC157C1AAA	157C	03/28/2002	SOIL GRID	0.00	0.25		
HC157C1BAA	157C	03/28/2002	SOIL GRID	0.25	0.25		
HC157C1CAA	157C	03/28/2002	SOIL GRID	0.50	1.00		
HD102U1AAA	102U	03/28/2002	SOIL GRID	0.00	0.25		
HD157A1AAA	157A	03/28/2002	SOIL GRID	0.00	0.25		
HD157A1BAA	157A	03/28/2002	SOIL GRID	0.25	0.25		
HD157A1CAA	157A	03/28/2002	SOIL GRID	0.50	1.00		
HD157B1AAA	157B	03/28/2002	SOIL GRID	0.00	0.25		
HD157B1BAA	157B	03/28/2002	SOIL GRID	0.25	0.25		
HD157B1CAA	157B	03/28/2002	SOIL GRID	0.50	1.00		
HD157C1AAA	157C	03/28/2002	SOIL GRID	0.00	0.25		
HD157C1BAA	157C	03/28/2002	SOIL GRID	0.25	0.25		
HD157C1CAA	157C	03/28/2002	SOIL GRID	0.50	1.00		
LKSNK0005AAA	LKSNK0005	03/27/2002	SURFACE WATER				
LKSNK0007AAA	LKSNK0007	03/27/2002	SURFACE WATER				

Profiling methods include: Volatiles, Explosives and Perchlorate
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 03/09/02 - 03/29/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
4036000-06G	4036000-06G	03/27/2002	GROUNDWATER					E314.0	PERCHLORATE	
97-1	97-1	03/26/2002	GROUNDWATER	83.00	93.00	62.00	72.00	OC21V	CHLOROFORM	
97-2	97-2	03/26/2002	GROUNDWATER	53.00	63.00	53.00	63.00	E314.0	PERCHLORATE	
97-2	97-2	03/26/2002	GROUNDWATER	53.00	63.00	53.00	63.00	OC21V	CHLOROFORM	
97-3	97-3	03/27/2002	GROUNDWATER	75.00	85.00	36.00	46.00	OC21V	CHLOROFORM	
97-3	97-3	03/27/2002	GROUNDWATER	75.00	85.00	36.00	46.00	OC21V	TRICHLOROETHYLENE (TCE)	
97-3D	97-3	03/27/2002	GROUNDWATER	75.00	85.00	34.10	44.10	OC21V	CHLOROFORM	
97-3D	97-3	03/27/2002	GROUNDWATER	75.00	85.00	34.10	44.10	OC21V	TRICHLOROETHYLENE (TCE)	
97-5	97-5	03/12/2002	GROUNDWATER	84.00	94.00	76.00	86.00	E314.0	PERCHLORATE	
97-5	97-5	03/26/2002	GROUNDWATER	84.00	94.00	76.00	86.00	E314.0	PERCHLORATE	
97-5	97-5	03/26/2002	GROUNDWATER	84.00	94.00	76.00	86.00	OC21V	CHLOROFORM	
TW01-2A	01-2	03/25/2002	GROUNDWATER		47.00		21.20	OC21V	CHLOROFORM	
TW01-2D	01-2	03/25/2002	GROUNDWATER		47.00		21.20	E314.0	PERCHLORATE	
TW01-2D	01-2	03/25/2002	GROUNDWATER		47.00		21.20	OC21V	CHLOROFORM	
W80M2A	MW-80	03/28/2002	GROUNDWATER	100.00	110.00	56.00	66.00	OC21V	CHLOROFORM	
W80M3A	MW-80	03/27/2002	GROUNDWATER	70.00	80.00	26.00	36.00	OC21V	CHLOROFORM	
W80SSA	MW-80	03/28/2002	GROUNDWATER	43.00	53.00	0.00	10.00	OC21V	CHLOROFORM	
W81DDA	MW-81	03/28/2002	GROUNDWATER	184.00	194.00	156.00	166.00	OC21V	CHLOROFORM	
W81M1A	MW-81	03/27/2002	GROUNDWATER	128.00	138.00	100.00	110.00	OC21V	CHLOROFORM	
W81M2A	MW-81	03/28/2002	GROUNDWATER	83.00	93.00	55.00	65.00	OC21V	CHLOROFORM	
W81SSA	MW-81	03/28/2002	GROUNDWATER	25.00	35.00	0.00	10.00	OC21V	CHLOROFORM	
G02-05DAA	G02-05	03/22/2002	PROFILE	35.00	35.00	7.00	7.00	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G02-05DAA	G02-05	03/22/2002	PROFILE	35.00	35.00	7.00	7.00	8330N	NITROBENZENE	NO
G02-05DAA	G02-05	03/22/2002	PROFILE	35.00	35.00	7.00	7.00	8330N	NITROGLYCERIN	NO
G02-05DAA	G02-05	03/22/2002	PROFILE	35.00	35.00	7.00	7.00	8330N	PICRIC ACID	NO
G02-05DCA	G02-05	03/22/2002	PROFILE	50.00	50.00	22.00	22.00	E314.0	PERCHLORATE	
G02-05DDA	G02-05	03/22/2002	PROFILE	60.00	60.00	32.00	32.00	E314.0	PERCHLORATE	
G02-05DEA	G02-05	03/22/2002	PROFILE	70.00	70.00	42.00	42.00	E314.0	PERCHLORATE	
G02-05DFA	G02-05	03/22/2002	PROFILE	80.00	80.00	52.00	52.00	E314.0	PERCHLORATE	
G02-05DGA	G02-05	03/22/2002	PROFILE	90.00	90.00	62.00	62.00	E314.0	PERCHLORATE	
G02-05DHA	G02-05	03/22/2002	PROFILE	100.00	100.00	72.00	72.00	E314.0	PERCHLORATE	

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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 03/09/02 - 03/29/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G02-05DIA	G02-05	03/22/2002	PROFILE	110.00	110.00	82.00	82.00	E314.0	PERCHLORATE	
G02-05DJA	G02-05	03/22/2002	PROFILE	120.00	120.00	92.00	92.00	E314.0	PERCHLORATE	
G02-05DKA	G02-05	03/25/2002	PROFILE	130.00	130.00	102.00	102.00	OC21V	ACETONE	
G02-05DKA	G02-05	03/25/2002	PROFILE	130.00	130.00	102.00	102.00	OC21V	CHLOROFORM	
G02-05DKA	G02-05	03/25/2002	PROFILE	130.00	130.00	102.00	102.00	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DAA	02-09	03/26/2002	PROFILE	12.00	12.00	2.90	2.90	E314.0	PERCHLORATE	
G02-09DAA	02-09	03/26/2002	PROFILE	12.00	12.00	2.90	2.90	OC21V	ACETONE	
G02-09DAA	02-09	03/26/2002	PROFILE	12.00	12.00	2.90	2.90	OC21V	CHLOROFORM	
G02-09DAA	02-09	03/26/2002	PROFILE	12.00	12.00	2.90	2.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DBA	02-09	03/27/2002	PROFILE	20.00	20.00	10.90	10.90	8330N	1,3-DINITROBENZENE	NO
G02-09DBA	02-09	03/27/2002	PROFILE	20.00	20.00	10.90	10.90	8330N	NITROGLYCERIN	NO
G02-09DBA	02-09	03/27/2002	PROFILE	20.00	20.00	10.90	10.90	E314.0	PERCHLORATE	
G02-09DBA	02-09	03/27/2002	PROFILE	20.00	20.00	10.90	10.90	OC21V	ACETONE	
G02-09DBA	02-09	03/27/2002	PROFILE	20.00	20.00	10.90	10.90	OC21V	CHLOROETHANE	
G02-09DBA	02-09	03/27/2002	PROFILE	20.00	20.00	10.90	10.90	OC21V	CHLOROMETHANE	
G02-09DBA	02-09	03/27/2002	PROFILE	20.00	20.00	10.90	10.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DBA	02-09	03/27/2002	PROFILE	20.00	20.00	10.90	10.90	OC21V	TOLUENE	
G02-09DCA	02-09	03/27/2002	PROFILE	30.00	30.00	20.90	20.90	8330N	1,3-DINITROBENZENE	NO
G02-09DCA	02-09	03/27/2002	PROFILE	30.00	30.00	20.90	20.90	8330N	NITROGLYCERIN	NO
G02-09DCA	02-09	03/27/2002	PROFILE	30.00	30.00	20.90	20.90	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	NO
G02-09DCA	02-09	03/27/2002	PROFILE	30.00	30.00	20.90	20.90	OC21V	ACETONE	
G02-09DCA	02-09	03/27/2002	PROFILE	30.00	30.00	20.90	20.90	OC21V	BENZENE	
G02-09DCA	02-09	03/27/2002	PROFILE	30.00	30.00	20.90	20.90	OC21V	CHLOROFORM	
G02-09DCA	02-09	03/27/2002	PROFILE	30.00	30.00	20.90	20.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DDA	02-09	03/27/2002	PROFILE	40.00	40.00	30.90	30.90	8330N	NITROGLYCERIN	NO
G02-09DDA	02-09	03/27/2002	PROFILE	40.00	40.00	30.90	30.90	E314.0	PERCHLORATE	
G02-09DDA	02-09	03/27/2002	PROFILE	40.00	40.00	30.90	30.90	OC21V	ACETONE	
G02-09DDA	02-09	03/27/2002	PROFILE	40.00	40.00	30.90	30.90	OC21V	CHLOROFORM	
G02-09DDA	02-09	03/27/2002	PROFILE	40.00	40.00	30.90	30.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DEA	02-09	03/27/2002	PROFILE	50.00	50.00	40.90	40.90	8330N	1,3-DINITROBENZENE	NO
G02-09DEA	02-09	03/27/2002	PROFILE	50.00	50.00	40.90	40.90	8330N	NITROGLYCERIN	NO

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SAMPLES COLLECTED 03/09/02 - 03/29/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G02-09DEA	02-09	03/27/2002	PROFILE	50.00	50.00	40.90	40.90	E314.0	PERCHLORATE	
G02-09DEA	02-09	03/27/2002	PROFILE	50.00	50.00	40.90	40.90	OC21V	2-HEXANONE	
G02-09DEA	02-09	03/27/2002	PROFILE	50.00	50.00	40.90	40.90	OC21V	ACETONE	
G02-09DEA	02-09	03/27/2002	PROFILE	50.00	50.00	40.90	40.90	OC21V	CHLOROETHANE	
G02-09DEA	02-09	03/27/2002	PROFILE	50.00	50.00	40.90	40.90	OC21V	CHLOROFORM	
G02-09DEA	02-09	03/27/2002	PROFILE	50.00	50.00	40.90	40.90	OC21V	CHLOROMETHANE	
G02-09DEA	02-09	03/27/2002	PROFILE	50.00	50.00	40.90	40.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DFA	02-09	03/27/2002	PROFILE	60.00	60.00	50.90	50.90	OC21V	ACETONE	
G02-09DFA	02-09	03/27/2002	PROFILE	60.00	60.00	50.90	50.90	OC21V	CHLOROFORM	
G02-09DFA	02-09	03/27/2002	PROFILE	60.00	60.00	50.90	50.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DGA	02-09	03/27/2002	PROFILE	70.00	70.00	60.90	60.90	OC21V	ACETONE	
G02-09DGA	02-09	03/27/2002	PROFILE	70.00	70.00	60.90	60.90	OC21V	CHLOROFORM	
G02-09DGA	02-09	03/27/2002	PROFILE	70.00	70.00	60.90	60.90	OC21V	CHLOROMETHANE	
G02-09DGA	02-09	03/27/2002	PROFILE	70.00	70.00	60.90	60.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DHA	02-09	03/27/2002	PROFILE	80.00	80.00	70.90	70.90	OC21V	ACETONE	
G02-09DHA	02-09	03/27/2002	PROFILE	80.00	80.00	70.90	70.90	OC21V	CHLOROFORM	
G02-09DHA	02-09	03/27/2002	PROFILE	80.00	80.00	70.90	70.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DHD	02-09	03/27/2002	PROFILE	80.00	80.00	70.90	70.90	OC21V	ACETONE	
G02-09DHD	02-09	03/27/2002	PROFILE	80.00	80.00	70.90	70.90	OC21V	CHLOROFORM	
G02-09DHD	02-09	03/27/2002	PROFILE	80.00	80.00	70.90	70.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DIA	02-09	03/27/2002	PROFILE	90.00	90.00	80.90	80.90	OC21V	ACETONE	
G02-09DIA	02-09	03/27/2002	PROFILE	90.00	90.00	80.90	80.90	OC21V	CHLOROFORM	
G02-09DIA	02-09	03/27/2002	PROFILE	90.00	90.00	80.90	80.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DJA	02-09	03/28/2002	PROFILE	100.00	100.00	90.90	90.90	OC21V	ACETONE	
G02-09DJA	02-09	03/28/2002	PROFILE	100.00	100.00	90.90	90.90	OC21V	CHLOROFORM	
G02-09DJA	02-09	03/28/2002	PROFILE	100.00	100.00	90.90	90.90	OC21V	CHLOROMETHANE	
G02-09DJA	02-09	03/28/2002	PROFILE	100.00	100.00	90.90	90.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DKA	02-09	03/28/2002	PROFILE	110.00	110.00	101.90	101.90	OC21V	ACETONE	
G02-09DKA	02-09	03/28/2002	PROFILE	110.00	110.00	101.90	101.90	OC21V	CHLOROFORM	
G02-09DKA	02-09	03/28/2002	PROFILE	110.00	110.00	101.90	101.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DLA	02-09	03/28/2002	PROFILE	120.00	120.00	110.90	110.90	OC21V	ACETONE	

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 03/09/02 - 03/29/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G02-09DLA	02-09	03/28/2002	PROFILE	120.00	120.00	110.90	110.90	OC21V	CHLOROFORM	
G02-09DLA	02-09	03/28/2002	PROFILE	120.00	120.00	110.90	110.90	OC21V	CHLOROMETHANE	
G02-09DLA	02-09	03/28/2002	PROFILE	120.00	120.00	110.90	110.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-09DMA	02-09	03/28/2002	PROFILE	130.00	130.00	120.90	120.90	OC21V	ACETONE	
G02-09DMA	02-09	03/28/2002	PROFILE	130.00	130.00	120.90	120.90	OC21V	CHLOROFORM	
G02-09DNA	02-09	03/28/2002	PROFILE	140.00	140.00	130.90	130.90	OC21V	ACETONE	
G02-09DNA	02-09	03/28/2002	PROFILE	140.00	140.00	130.90	130.90	OC21V	CHLOROFORM	
G02-09DNA	02-09	03/28/2002	PROFILE	140.00	140.00	130.90	130.90	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-12DAA	02-12	03/26/2002	PROFILE	51.00	53.00	2.00	4.00	8330N	2,6-DINITROTOLUENE	YES
G02-12DAA	02-12	03/26/2002	PROFILE	51.00	53.00	2.00	4.00	8330N	NITROGLYCERIN	NO
G02-12DAA	02-12	03/26/2002	PROFILE	51.00	53.00	2.00	4.00	OC21V	ACETONE	
G02-12DAA	02-12	03/26/2002	PROFILE	51.00	53.00	2.00	4.00	OC21V	CHLOROFORM	
G02-12DAA	02-12	03/26/2002	PROFILE	51.00	53.00	2.00	4.00	OC21V	CHLOROMETHANE	
G02-12DAA	02-12	03/26/2002	PROFILE	51.00	53.00	2.00	4.00	OC21V	METHYL ETHYL KETONE (2-BUT	
G02-12DBA	02-12	03/26/2002	PROFILE	60.00	60.00	11.00	11.00	8330N	NITROGLYCERIN	NO
G02-12DBA	02-12	03/26/2002	PROFILE	60.00	60.00	11.00	11.00	OC21V	ACETONE	
G02-12DBA	02-12	03/26/2002	PROFILE	60.00	60.00	11.00	11.00	OC21V	CHLOROFORM	
G02-12DCA	02-12	03/26/2002	PROFILE	70.00	70.00	21.00	21.00	OC21V	ACETONE	
G02-12DCA	02-12	03/26/2002	PROFILE	70.00	70.00	21.00	21.00	OC21V	CHLOROFORM	
G02-12DDA	02-12	03/26/2002	PROFILE	80.00	80.00	31.00	31.00	8330N	2,6-DINITROTOLUENE	YES
G02-12DDA	02-12	03/26/2002	PROFILE	80.00	80.00	31.00	31.00	8330N	PICRIC ACID	NO
G02-12DDA	02-12	03/26/2002	PROFILE	80.00	80.00	31.00	31.00	OC21V	ACETONE	
G02-12DDA	02-12	03/26/2002	PROFILE	80.00	80.00	31.00	31.00	OC21V	CHLOROFORM	
G02-12DEA	02-12	03/26/2002	PROFILE	90.00	90.00	41.00	41.00	OC21V	CHLOROFORM	
G02-12DFA	02-12	03/26/2002	PROFILE	100.00	100.00	51.00	51.00	OC21V	CHLOROFORM	
G02-12DGA	02-12	03/26/2002	PROFILE	110.00	110.00	61.00	61.00	OC21V	CHLOROFORM	
G02-12DHA	02-12	03/26/2002	PROFILE	12.00	120.00	71.00	71.00	OC21V	CHLOROFORM	
G02-12DIA	02-12	03/26/2002	PROFILE	130.00	130.00	81.00	81.00	OC21V	CHLOROFORM	
G02-12DIA	02-12	03/26/2002	PROFILE	130.00	130.00	81.00	81.00	OC21V	TRICHLOROETHYLENE (TCE)	
G02-12DJA	02-12	03/26/2002	PROFILE	140.00	140.00	91.00	91.00	OC21V	CHLOROFORM	
G02-12DKA	02-12	03/26/2002	PROFILE	150.00	150.00	101.00	101.00	OC21V	CHLOROFORM	

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DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 03/09/02 - 03/29/02

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G210DDA	MW-210	03/22/2002	PROFILE	140.00	140.00	39.00	39.00	E314.0	PERCHLORATE	
G210DEA	MW-210	03/22/2002	PROFILE	150.00	150.00	49.00	49.00	E314.0	PERCHLORATE	
G210DFA	MW-210	03/22/2002	PROFILE	160.00	160.00	59.00	59.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G210DFA	MW-210	03/22/2002	PROFILE	160.00	160.00	59.00	59.00	E314.0	PERCHLORATE	
G210DGA	MW-210	03/22/2002	PROFILE	170.00	170.00	69.00	69.00	E314.0	PERCHLORATE	
G210DHA	MW-210	03/22/2002	PROFILE	180.00	180.00	79.00	79.00	E314.0	PERCHLORATE	
G210DIA	MW-210	03/22/2002	PROFILE	190.00	190.00	89.00	89.00	E314.0	PERCHLORATE	
G210DUA	MW-210	03/25/2002	PROFILE	310.00	310.00	209.00	209.00	8330N	3-NITROTOLUENE	YES*
G210DUA	MW-210	03/25/2002	PROFILE	310.00	310.00	209.00	209.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G210DUA	MW-210	03/25/2002	PROFILE	310.00	310.00	209.00	209.00	8330N	NITROGLYCERIN	NO
G210DUA	MW-210	03/25/2002	PROFILE	310.00	310.00	209.00	209.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G210DUA	MW-210	03/25/2002	PROFILE	310.00	310.00	209.00	209.00	8330N	PICRIC ACID	NO

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