MONTHLY PROGRESS REPORT #31
FOR OCTOBER 1999

EPA REGION I ADMINISTRATIVE ORDER SDWA I-97-1019
MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from October 1 to October 31, 1999. Scheduled actions are for the six-week period ending December 10, 1999.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of October 31 is summarized in Table 1.

Table 1. Drilling progress during October 1999

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-48	LRWS-3 far field well	337	236	99-109 131.5-141.5
MW-48b	LRWS-3 far field well	230	129	161-171 191-201 221-231
MW-49b	LRWS-3 far field well	195	124	130-140 160-170 185-195
MW-56	J Well far field well	280	209	76-86 106-116
MW-57	Sandwich far field	115	27	
MW-58	Steel Lined Pit	110	8	100-110
MW-70	Gun and Mortar well (MP-4)	280	153	132-142 257-267
MW-71	Gun and Mortar well (MP-7)	315	155	158-168 180-190
MW-76	Demo 1 response well	170	100	85-95 105-115 125-135
MW-79	Demo 1 response well	130	40	

bgs = below ground surface
bwt = below water table

Samples collected during the month are summarized in Table 2. Groundwater sampling continued for round 3 of the Phase I monitoring wells, the second round of the wells installed in January-April 1999, the second round of the water supply wells, and the first round of the wells installed after August 1999. Groundwater profile samples were collected from MW-48, MW-49, MW-56, MW-57, MW-70, MW-76, and MW-79; locations and drilling status for these wells are indicated in Table 1. Soil samples were collected from the area of the UXO detonation craters at demo 2, from the steel lined pit soil borings, from the APC at Tank Alley and Turpentine Road, and from the comparison grids at GP-16.

The Guard, EPA, and MADEP had a meeting on October 7 to discuss technical issues, including the following:

- The VOC soil sampling procedure was discussed. The Guard proposed to use pre-preserved sample containers for low level VOC sampling instead of the Encore samplers. TRC suggested that Ogden also be prepared to collect high level VOC samples based upon visual and PID reading. EPA stated that they needed to review this proposal and that they would get back to the guard later that day with an answer.
- Ogden and Tetra Tech gave an update of ongoing field activities.
- Follow-up items from last week's technical meeting were discussed. The Guard stated that they had received EPA's approval letter for the proposed locations of the Sandwich and J Well far field wells. Ogden stated that the milestone Gantt chart is into the Guard for review and requested that the EPA indicate a date they require this document. EPA stated that they are in the process of reviewing the milestone table from last week, and that at a minimum the start date and the draft tech memo deliverable date would be enforceable dates for each type of investigation. They still need to discuss what end dates would be enforceable.
- The summary of the groundwater sampling schedule was discussed. Ogden has prepared a draft version for the Guard review and this should be ready for next weeks Tech meeting.
- The proposed IRP monitoring wells to be sampled were discussed. The Guard stated that they had received the EPA comments to the proposal. The DEP stated that they will have their comments to the Guard later that day.
- The Guard proposed to submit change pages to the Gun and Mortar FSP for items that have been agreed upon. These change pages will be distributed next week.
- The status of the list of munitions from the CDC was discussed. The Guard stated that they are still working on it and it should be finished next week. The status of the steel lined pit was also discussed. The Guard stated that EOD will not be able to look at the rounds until Tuesday. The Guard stated that they will submit a letter asking for an extension to the date of completion of the steel lined pit work.
- The Textron SOW comments were discussed. The EPA would like the Guard to request the information in the format of a CERCLA Section 104 request. EPA will supply this information to the Guard today. DEP would like more detail in requiring agency review of the work by Textron.
- The EPA requested clarification on several items listed in the "Documents Status" table.
    - APC Pile - the Guard submitted a letter of 7/12/99 with proposed sampling. EPA believed that this was already approved. The Guard stated that they would look into this again.
    - Sampling Plan for UXO detonation (7/26/99) - EPA requested a final plan that they will approve.
    - Tech Memos - The Guard requested EPA comments on TMs 99-2 and 99-3.
- The EPA stated that they have received responses from Oak Ridge on the J Range rad survey. The EPA stated that they will review and send comments to the Guard.
- Ogden suggested that there be a meeting between Ogden, EPA, and Guard on EPA's PEP comments.
- EPA requested Ogden to run some queries on the database for identification of concentrations exceeding DEP soil standards. DEP will check on whether the Method 1 standards are available electronically.
- DEP asked on the status of the meeting scheduled for October 14 on future investigations. EPA would like the date to be moved to the 27th of October.

The Guard, EPA, and MADEP had a meeting on October 14 to discuss technical issues, including the following:

- Ogden updated on the status of field activities which included: the demo 1 response wells installation will commence next week; MW-49 (LRWS-3) contacted bedrock and will be ready for screen selection; soil borings at the steel lined pit will commence; soil grids at GP-16 will be collected;

residential well sampling at Raccoon Lane and Snake Pond Road were collected on Tuesday; groundwater sampling for Phase I round 3 and newly installed wells continues; and sampling of water supply wells round 2 is ongoing. There was a new detection of RDX at MW-37M2. Ogden stated that the profile results from both MW-37 and MW-40 did not have RDX detected. The results at MW-37 and -40 will need to be incorporated in the Impact Area Response Plan.

- Tetra Tech updated the status of their field activities. They are developing workplans and evaluating subcontractors for the Munitions Survey. There was a discussion of the water bodies selected for the survey; EPA expects to provide a letter Friday regarding these locations.
- The EPA stated that they would send comments on the revised soil sampling plan for VOCs via e-mail.
- Ogden requested that there be a meeting between the EPA, DEP, the Guard, and Ogden to discuss PEP issues. It was agreed that the easy questions would be e-mailed to EPA before the meeting. The meeting was tentatively scheduled for Monday morning via conference call (changed on Friday to 10/21).
- The status of the J3 Range Response Plan was discussed. The Guard stated that according to the groundwater model, the explosive detections in that area are being captured by the FS-12 treatment system and that Textron should do this investigation. EPA stated that the Guard should not wait for Textron's investigation to determine the extent of the contamination. EPA requested maps of forward tracks of DP-8 and DP-9; a figure is needed showing vertical position of the RDX with respect to the wells in that area; the Guard should determine if there is a water supply well on Camp Good News; and the ND results for the other drive point split samples upgradient of Raccoon Lane should be mapped.
- A 1-page handout was distributed showing the update of document status. EPA stated that some of these documents have already been verbally approved in previous Tech meetings. The Guard requested that all approvals be in writing. EPA stated that they would e-mail the approval of the APC pile sampling plan. The Guard will send a revised UXO Detonation Sampling Plan to the agencies for approval.
- The Guard stated that explosives were detected in soil samples from the UXO detonation craters at one of the J range locations and one of the emergency open detonation locations at Demo 2. EPA requested the concentrations. Ogden stated that the concentrations had not been received yet and that they would inform EPA as soon as they are available. Ogden stated that the change pages for the Gun and Mortar FSP would not be available until Monday.
- EPA requested that the J Range sampling plan should include some DU sampling. The Guard suggested that it be done as part of the munition survey of the J Ranges. EPA suggested that one of the berms on J-1 be knocked down and DU sampling performed. The Guard would like to discuss this at the meeting between Tetra Tech, the Guard, and EPA next week.
- The location of the J Well far field well was discussed. EPA requested at a previous meeting that the well be located as close to the property line as possible to insure the well is down gradient of the abandoned fuel pipeline. Ogden informed the EPA that there are underground utilities located on the south side of Old Greenway Road and that the location of the pipeline was not marked. Ogden will further investigate the location of the pipeline before locating the well.
- EPA asked on the status of the fire break work. The Guard stated that they need to look into it.
- The Guard handed out a UXO disposition table for review.
- Ogden handed out a 1 page map showing the groundwater contours from the July water level measurement round.
- EPA asked about the status of the 95-14 groundwater results. Ogden stated that the analysis is on a standard turn around time (4 weeks).

The Guard, EPA, and MADEP had a meeting on October 21 to discuss technical issues, including the following:

- The status of the action items from last week were discussed:
  - FS-12/J-3 map will be ready 1 week from Monday. There was some discussion of whether the data emailed by USGS could be used directly without formatting by Ogden. This would require ArcView GIS software and the reference grid information that was supplied earlier by USGS.
  - Guard has received EPA comments on several plans. EPA stated that they have comments for the soil sampling for UXO detonation and Archive Search Report and they will be distributed soon. DEP just submitted their comments on the Steel Lined Pit and they will get RDX Response Plan comments out soon. The schedule for testing the new drilling method, and beginning implementation of the Impact Area Response Plan was discussed. Cost effectiveness still needs to be determined for this method. Ogden will develop cost information and forward to Guard, and evaluate schedule for trial use of the method.
  - A 3-page handout of the draft milestone Gantt chart was provided for agency review. Ogden stated that the training areas and Phase IIb were not included in the chart. EPA stated that they would review and have comments for next week.
  - Changes to the Gun and Mortar FSP are still in progress. Ogden stated that the change pages would be ready in several days. Comparison grid soil samples have been collected from GP-16. Ogden stated that when the data from these grids is available early next week there needs to be meeting to discuss these results and finalize the grid arrangement for gun/mortar position soil sampling.
  - The Guard proposed to meet next Thursday morning with Ogden, Tetra Tech, EPA, and DEP to do a site walk of the J Range and discuss sampling to address DU issue.
  - The Guard indicated that the fire break work has been planned but has not started. EPA asked about the status of the controlled burn. The Guard stated that there is some confusion on this issue and they will investigate it further.
- The Draft Supplemental UXO Soil Sampling Plan was distributed for review. The Guard indicated that this work would be performed within 72-hrs after the EPA approves the plan.
- The status of the field work was summarized and is as follows:
  - The center line particle track well at Demo 1 (MW-76) is on standby awaiting screen intervals. Ogden indicated that the rig might possibly have set up on the location of MW-77 due to a survey error, and this would be straightened out as soon as possible. Later it was determined that the rig was set up on the location directly south of the particle track.
  - The soil grid samples at GP-16 have been collected.
  - The J Well far field well has been started and is expected it be at bedrock by the end of the week.
  - The second boring at MW-49 (LRWS 3 far field wells) is in progress.
  - Groundwater sampling is continuing on newly installed wells, round 3 of the Phase I wells, and base water supply wells.
  - Soil samples from the APC have been collected.
  - EPA stated that IRP discussed Ogden sampling well 03MW0060 during their weekly meeting. Ogden indicated that the well may have been misidentified, and they will work with IRP to obtain correct identity.
- Ogden asked the agencies their opinion of the proposed revised sampling grids for the Mortar Targets. The "Source Areas" soil sampling needs to begin soon, and these locations are also around tanks similar to the Mortar Targets. Both the EPA and DEP agreed to use the new grid as indicated in the Draft Mortar Target FSP, for the "Source Area" tanks. Ogden will send a letter to EPA and DEP stating the change in procedure.
- The Textron information request was discussed. The Guard indicated that they will send information requests in both the ASTM format and the CERCLA 104(e) format. EPA agreed and suggested that they cut the response time from 45 to 30 days. The Guard stated that the information request should be out by November 1.

- The action items from the 9/99 IART meeting were discussed and are as follows:
    1. Ogden will provide color maps to all member of the IART regardless of whether they are present at the meeting.
    2. EPA has invited a member of MA EOEA/DEP to the October meeting.
    3. Ogden sent a copy of the NON to each member of the IART on 9/22/99.
    4. EPA has or will provide Mr. Schlesinger with the electronic data.
    5. If requested, Ogden will provide a Far Field map showing LRWS 4, 8, 10, and the Sandwich wells.
    6. EPA does not have additional input from citizen members on what types of maps should be presented at the October meeting.
    7. Ogden sent maps depicting "tics" and unknown detections on 9/24/99.
    8. The maps for round 3 sampling will be cumulative.
    9. When the Interim Results report is available it will be sent to the Community Working Group.
    10. EPA will give an update on the status of the Archive Search Report.
    11. It is not clear how to address this action item.
    12. JPO will discuss the J-Well update.
    13. The off base munitions update will be deleted.
    14. Guard will discuss the latest on base UXO open detonations.
    15. Ogden will present additional maps of the Phase I detections at gun positions.

- The Agenda for the 10/22/1999 IART meeting was discussed.
- The Guard discussed several issues related to the schedule for activities next week.
- In response to a question from EPA, Ogden clarified that the site reconnaissance of trenches and other related features did not include a magnetometer survey. This work only included visual avoidance of UXO. There was some discussion regarding the firing point for the 37mm mortars observed in the area northeast of Succonsette Pond. There was also some discussion regarding criteria for when a target is "hit" during mortar fire.
- JPO asked about the results of the KD and U Range investigations. These have been communicated to Jacobs for their evaluation of potential water supplies. The evaluation appears to be dealing with IAGS detections very conservatively, in terms of avoiding areas with detections in soil but not groundwater.

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

- Jacobs Engineering updated on the CS-19 work. They are currently in comment resolution with the EPA. IRP will investigate the central area of CS-19, and the two areas north of CS-19 (bunker and cleared area) will be investigated by the IAGS. EPA raised the question of how this would be handled under the IAGS. It was agreed EPA would include the CS-19 bunker issue in their comments on the Trenches FSP due on November 4. Work would start on December 6 providing the UXO avoidance issue for the 40mm rounds near the mortar targets can be worked out (UXO contractor will mobilize for trenches and mortar targets on 12/6).
- The format for the Tech Memos was discussed. The outline for the tech memos would be the Introduction, background, procedures, results, data evaluation, and conclusions. DEP and EPA indicated that they did not want the tech memo to be used for "closing out" sites. The Guard stated that the memos are to summarize data into small packages with recommendations that can be revisited at any time.
- A 5-page handout of the GP-16 grid comparison results were reviewed. After a comparison of the results, Ogden proposed to continue with the 22 X 22 grids and suggested that only composite

samples be collected at the gun and mortar grids. EPA agreed with using the 22 X 22 grids but suggested collecting 10 percent discrete samples along with composites. EPA stated that they would review the data and comment later.

- An 8-page letter dated 10/28/99 from Ogden to EPA/MADEP was handed out and discussed. The letter provides a response to comments on the Draft PEP Analytical Report. Each response was discussed briefly. The agencies will review and comment.
- An update of the field activities was discussed which included the drilling of MW-57 (Sandwich far field well) and MW-79 (demo 1 upgradient response well). Well development and groundwater sampling continue. Soil samples from the Demo 2 detonation were collected, and results are expected Monday 11/1.
- The EPA requested an update of the document status list. EPA also requested that the draft milestones provided last week be revisited at a level of detail consistent with the milestones provided by AFCEE for CS-19 (handout provided by EPA).
- EPA asked if there were any documents that required EPA comments. The Guard stated that the Training Areas Work Plan required comments. EPA stated that they would work on it after the PEP comments. Ogden requested that EPA also comment on the groundwater model recommendations (7/22/99) and the Demo 1 Deep Soil TM 99-2 (7/27/99). These two documents, and also the Evaluation of Remedial Technologies (5/13/99) are key to developing remedies for Demo 1.
- The Guard indicated in response to a question from last week that MP-8 was used to fire 40mm practice rounds, probably up until relatively recently. This could explain the presence of these rounds observed in the mortar target reconnaissance.

A meeting of the Impact Area Review Team was convened on October 28. Topics discussed included a presentation of the Governor's plan to transfer stewardship of Camp Edwards; the 8/4/99 Notice of Noncompliance and other enforcement issues; investigations update; TOSC Program update; and on-base munitions/UXO update. The next meeting was scheduled for December 2, 1999.

2. SUMMARY OF DATA RECEIVED

Validated Data

Validated data were received during October for Sample Delivery Groups (SDGs) 136, 146-150, and 167-170. These SDGs contain results for 157 deep soil samples from Demo Area 1, and 15 groundwater samples from residential wells in the Arnold Road area.

Figures 1 through 5 depict the cumulative results of groundwater analyses for the period from the start of the IAGS (July 1997) to the present. Each figure depicts results for a different analyte class:

- Figure 1 shows the results of explosive analyses by EPA Method 8330
- Figure 2 shows the results of inorganic analyses (collectively referred to as "metals", though some analytes are not true metals) by methods 300.0, 350.2M, 353M, 365.2, CYAN, IM40/MB, IM40HG
- Figure 3 shows the results of Volatile Organic Compound (VOC) analyses by methods OC21V, 504, and 8021W
- Figure 4 shows the results of Semi-Volatile Organic Compound (SVOC) analyses by method OC21B
- Figure 5 shows the results of Pesticide (method OL21P) and Herbicide (method 8151) analyses

The concentrations from these analyses are depicted in Figures 1-5 compared to Maximum Contaminant Levels (MCLs) or Health Advisories (HAs) published by EPA for drinking water. A red circle is used to depict a well where the concentration of one or more analytes is greater than or equal to (GTE) the lowest MCL or HA for the analyte(s). A green circle is used to depict a well where the concentration of all

analytes is less than (LT) the lowest MCL or HA, or is not detectable. An open circle is used to depict an existing well where the analytes in question (for example, Explosives in Figure 1) have not yet been measured. Table 3 summarizes the detections that exceeded a MCL or HA, sorted by analytical method and analyte.

There are multiple labels listed for some wells in Figures 1-5, which indicates multiple well screens at different depths throughout the aquifer. The aquifer is approximately 200-300 feet thick in the study area. Well screens are positioned throughout this thickness based on various factors, including the results of groundwater profile samples, the geology, and projected locations of contaminants estimated by groundwater modeling. The screen labels are colored to indicate which of the depths had the chemical detected above MCLs/HAs. Generally, groundwater entering the top of the aquifer will move deeper into the aquifer as it moves radially outward from the top of the water table mound. Light blue dashed lines in Figures 1-5 depict water table contours. Groundwater generally moves perpendicular to these contours. The rate of vertical groundwater flow deeper into the aquifer slows as groundwater moves away from the mound.

The results presented in Figures 1-5 are cumulative, which provides a historical perspective on the data rather than a depiction of current conditions. Any detection at a well that equals or exceeds the MCL/HA results in the well having a red symbol, regardless of later detections or non-detects. The difference between historical and current conditions varies according to the type of analytes. There are little or no differences between historical and current exceedances of drinking water criteria for Explosives, VOCs, Pesticides, and Herbicides. There are significant differences between historical and current exceedances of drinking water criteria for Metals and SVOCs, as described further below.

Figure 1: Explosives in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for explosive compounds are indicated in three general areas: Demo Area 1 (wells 19, 31, and 34); the Impact Area and CS-19 (wells 58MW0002, 58MW0009E, 1, 2, 23, 25, and 38); and southeast of the J Ranges (wells 90MW0022, 90WT0013). CS-19 is a site located in the Impact Area that is currently under investigation by the Air Force Center for Environmental Excellence (AFCEE) under the Superfund program. Studies are currently underway to delineate the extent of contaminants in the Impact Area, which may include several separate sources. Exceedances of drinking water criteria were measured for 2,4,6-trinitrotoluene (TNT) at Demo Area 1 (well 19S), and for hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) at the other locations. One of the exceedance wells, 90WT0013, has had no detectable explosives in the most recent sample (1/99), and is currently being tested a third time.

Figure 2: Metals in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for metals are scattered throughout the study area. The exceedances have been measured for antimony, lead, molybdenum, sodium, thallium and zinc. Antimony (well 3D) and lead (well 2S) have only exceeded the criteria once, in one well each, and subsequent samples from these wells have not had exceedances. Molybdenum (29 wells) and thallium (22 wells) exceedances have been fairly widespread. Most of the exceedances for these compounds are in wells that have only been sampled once. For the wells that have been sampled twice for these compounds, only two of the seven molybdenum exceedances were repeated in consecutive sampling rounds (wells 13D and 2S), and only one of the seven thallium exceedances (well 7M2). Sodium levels exceeded the HA in eight wells, two of which had exceedances in consecutive sampling rounds. The highest measured sodium level was 1.9 times the HA, which is based on a salt-restricted diet. Zinc exceeded the HA in six wells, all of which are constructed of galvanized (zinc-coated) steel.

Figure 3: VOCs in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for VOCs are indicated in two general areas: CS-10 (wells 03MW0007A, 03MW0014A, and 03MW0020), and LF-1 (well 27MW0017B). CS-10 and LF-1 are sites located near the southern extent of the Training Ranges that are currently under investigation by AFCEE under the Superfund program. Exceedances of drinking water criteria were measured for tetrachloroethylene (PCE) at CS-10, and for vinyl chloride at LF-1. These compounds are believed to be associated with the sites under investigation by AFCEE.

Figure 4: SVOCs in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for SVOCs are scattered throughout the study area. All exceedances of drinking water criteria for SVOCs were measured for bis (2-ethylhexyl) phthalate (BEHP), except for one location (well 45S, see Inset B) which had an exceedance for naphthalene. BEHP is believed to be largely an artifact of the investigation methods, introduced to the samples during collection or analysis. A detailed discussion of the presence of BEHP is provided in the Draft Completion of Work Report (7/97) and in subsequent responses to comments. The theory that BEHP occurs as an artifact, and is not really present in the aquifer, is supported by the results of the latest sampling round that show much lower levels of the chemical after additional precautions were taken to prevent cross-contamination. Only three locations showed BEHP exceedances in consecutive sampling rounds: 28MW0106 (located near SD-5, a site under investigation by AFCEE), 58MW0006E (located at CS-19), and 90WT0013 (located at FS-12, a site under investigation by AFCEE). The naphthalene exceedance at well 45S is also located in FS-12.

Figure 5: Herbicides and Pesticides in Groundwater Compared to MCLs/HAs

There was one exceedance of drinking water criteria for herbicides or pesticides, at well PPAWSMW-1. A contractor to the United States Air Force installed this monitoring well at the PAVE PAWS radar station in accordance with the Massachusetts Contingency Plan (MCP), in order to evaluate contamination from a fuel spill. The exceedance was for the pesticide dieldrin. The well has only been sampled once for this compound.

Rush (Non-Validated) Data

Rush data are summarized in Table 4. These data are for analyses that are performed on a fast turnaround time, typically 1-5 days. Explosive analyses for monitoring wells, and explosive and VOC analyses for profile samples, are conducted in this timeframe. The rush data are not validated, but are provided as an indication of the most recent preliminary results. Table 4 summarizes only detects, and does not show samples with non-detects.

The status of the detections with respect to confirmation using Photo Diode Array (PDA) spectra is indicated in Table 4. 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 4, the detected compound is verified as properly identified. Where the status is “NO”, the identification of an explosive has been determined to be a false positive. Where the status is blank, PDA has not yet been used to evaluate the detection, or PDA is not applicable because the analyte is a VOC. Most explosive detections verified by PDA are confirmed to be present upon completion of validation.

Table 4 indicates PDA-verified explosive detections in a number of wells where they have been previously detected, and in several new wells. Monitoring well samples are indicated in the “SAMP_TYPE” column as “GROUNDWATER”. The samples are from the third round of monitoring

Phase 1 wells (which is complete except for Snake Pond wells), from the second round of monitoring Phase 2a wells (which is complete), and from the first round of sampling some of the new wells installed since August 1999. The explosive detections were verified at wells 34M1, 37M2, 37M3, 40M1, 58MW0002, 58MW0006E, 58MW0009E, 90MW0022, and 90WT0004. All these wells had previous detections of the same compounds, except for the following wells sampled for the first time: 37M2, 37M3, and 40M1.

Table 4 also indicates PDA-verified explosive detections in a few groundwater profile samples from the current round of drilling. Profile samples are indicated in the "SAMP_TYPE" column as "PROFILE". RDX and HMX were detected in four consecutive profile samples from MW-76, which was installed downgradient from Demo Area 1. 2,6-DNT was detected in the second and 14th profile samples from MW-70, which was installed downgradient from MP-4. There were many false positive explosive detections among the profile samples, primarily in borings 70 and 57. Profile samples typically contained the VOCs acetone, chloroform, and methyl ethyl ketone (MEK). With the exception of chloroform, which appears to be naturally occurring, these VOCs detected in profiles are generally not detected in monitoring wells installed at the same depth, and are suspected of being an artifact of the process of sampling during drilling.

Table 4 lists PDA-verified explosive detections for a number of soil samples. These include RDX and HMX detected in and around one of the two craters at Demo Area 2 where artillery simulators were detonated on October 2; tetryl detected at an open detonation location at the J-1 Range; and RDX, HMX, and 2-amino-4,6-dinitrotoluene detected at the location of a former scrap munitions pile adjacent to an Armored Personnel Carrier in the Impact Area. There were also several propellant-related detections among soil samples at GP-16 analyzed by the SVOC method OM31B. Several sampling grids were completed in this area to compare results between old and new grid arrangements. The detections at GP-16 included the propellant ingredients 2,4-DNT and di-n-butylphthalate, and the combustion product N-nitrosodiphenylamine.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period include the following:

Draft Phase II (a) FSP for Mortar Targets	10/4/99
Draft Phase II (a) FSP for Trenches	10/4/99
Weekly Progress Update for Sept 27-Oct 1 1999	10/6/99
Monthly Progress Report #30 (September 1999)	10/10/99
Weekly Progress Update for Oct 4-Oct 8 1999	10/13/99
Weekly Progress Update for Oct 11-Oct 15 1999	10/26/99
Revised Public Meeting Tables	10/29/99

4. SCHEDULED ACTIONS

Figure 6 provides a Gantt chart based on the Final Action Plan, updated to reflected progress and proposed work. Activities scheduled for November and early December include: complete round 3 sampling for Phase I wells; complete round 3 sampling for far field Group 1 wells, start and complete round 3 sampling for Phase II(a) wells; complete soil sampling for source areas; develop and sample steel-lined pit well; and continue soil sampling for gun/mortar positions. The next meeting of the Impact Area Groundwater Study Review Team has been scheduled for December 2, 1999.

TABLE 2
SAMPLING PROGRESS
10/1-10/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
PUFBLK1	PUFBLK1	10/01/1999	AIR	0.00	0.00		
PUFLCS1	PUFLCS1	10/01/1999	AIR	0.00	0.00		
11MW0001E	FIELDQC	10/21/1999	FIELDQC	0.00	0.00		
90MW0004E	FIELDQC	10/25/1999	FIELDQC	0.00	0.00		
90MW0038E	FIELDQC	10/19/1999	FIELDQC	0.00	0.00		
G48DKT	FIELDQC	10/12/1999	FIELDQC	0.00	0.00		
G48DME	FIELDQC	10/13/1999	FIELDQC	0.00	0.00		
G48DSE	FIELDQC	10/14/1999	FIELDQC	0.00	0.00		
G48DST	FIELDQC	10/14/1999	FIELDQC	0.00	0.00		
G48DXE	FIELDQC	10/15/1999	FIELDQC	0.00	0.00		
G48DXT	FIELDQC	10/15/1999	FIELDQC	0.00	0.00		
G49DBE	FIELDQC	10/06/1999	FIELDQC	0.00	0.00		
G49DCE	FIELDQC	10/08/1999	FIELDQC	0.00	0.00		
G49DCT	FIELDQC	10/07/1999	FIELDQC	0.00	0.00		
G49DHE	FIELDQC	10/08/1999	FIELDQC	0.00	0.00		
G49DHT	FIELDQC	10/08/1999	FIELDQC	0.00	0.00		
G49DME	FIELDQC	10/12/1999	FIELDQC	0.00	0.00		
G49DQT	FIELDQC	10/13/1999	FIELDQC	0.00	0.00		
G56DCE	FIELDQC	10/19/1999	FIELDQC	0.00	0.00		
G56DHE	FIELDQC	10/20/1999	FIELDQC	0.00	0.00		
G56DOE	FIELDQC	10/21/1999	FIELDQC	0.00	0.00		
G56DOT	FIELDQC	10/21/1999	FIELDQC	0.00	0.00		
G56GHT	FIELDQC	10/20/1999	FIELDQC	0.00	0.00		
G57DAT	FIELDQC	10/28/1999	FIELDQC	0.00	0.00		
G70DAT	FIELDQC	10/04/1999	FIELDQC	0.00	0.00		
G70DBE	FIELDQC	10/05/1999	FIELDQC	0.00	0.00		
G70DBT	FIELDQC	10/05/1999	FIELDQC	0.00	0.00		
G70DME	FIELDQC	10/06/1999	FIELDQC	0.00	0.00		
G70DMT	FIELDQC	10/06/1999	FIELDQC	0.00	0.00		
G70DOE	FIELDQC	10/07/1999	FIELDQC	0.00	0.00		
G76MAE	FIELDQC	10/18/1999	FIELDQC	0.00	0.00		
G76MAT	FIELDQC	10/18/1999	FIELDQC	0.00	0.00		
G76MCE	FIELDQC	10/19/1999	FIELDQC	0.00	0.00		
G76MCT	FIELDQC	10/19/1999	FIELDQC	0.00	0.00		
G79MBE	FIELDQC	10/29/1999	FIELDQC	0.00	0.00		
W17M1T	FIELDQC	10/29/1999	FIELDQC	0.00	0.00		
W67M1T	FIELDQC	10/26/1999	FIELDQC	0.00	0.00		
W69M1T	FIELDQC	10/27/1999	FIELDQC	0.00	0.00		
W82SST	FIELDQC	10/12/1999	FIELDQC	0.00	0.00		
WC6EXE	FIELDQC	10/08/1999	FIELDQC	0.00	0.00		
WF03XE	FIELDQC	10/07/1999	FIELDQC	0.00	0.00		
WF05XT	FIELDQC	10/01/1999	FIELDQC	0.00	0.00		
WG160E	FIELDQC	10/01/1999	FIELDQC	0.00	0.00		
WL26XE	FIELDQC	10/04/1999	FIELDQC	0.00	0.00		
WL28XE	FIELDQC	10/06/1999	FIELDQC	0.00	0.00		
WT34AE	FIELDQC	10/05/1999	FIELDQC	0.00	0.00		
WT711E	FIELDQC	10/11/1999	FIELDQC	0.00	0.00		
WT711T	FIELDQC	10/11/1999	FIELDQC	0.00	0.00		
03MW0006	03MW0006	10/15/1999	GROUNDWATER			0.00	10.00

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Other Sample Types methods are variable
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SED = Sample End Depth, measured in feet bgs
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TABLE 2
SAMPLING PROGRESS
10/1-10/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
03MW0022A	03MW0022A	10/14/1999	GROUNDWATER			71.00	76.00
03MW0024A	03MW0024A	10/14/1999	GROUNDWATER			70.00	75.00
03MW0027A	03MW0027A	10/14/1999	GROUNDWATER			64.00	69.00
03MW0048	03MW0048	10/15/1999	GROUNDWATER			52.00	57.00
03MW0070A	03MW0070A	10/14/1999	GROUNDWATER			0.00	0.00
03MW0707	03MW0707	10/14/1999	GROUNDWATER			4.00	14.00
03MW0709	03MW0709	10/14/1999	GROUNDWATER			7.00	17.00
03MW0709D	03MW0709	10/14/1999	GROUNDWATER			7.00	17.00
03MW0710	03MW0710	10/22/1999	GROUNDWATER			11.00	21.00
03WT0021	03WT0021	10/25/1999	GROUNDWATER			0.00	10.00
11MW0001	11MW0001	10/21/1999	GROUNDWATER			0.00	10.00
11MW0002	11MW0002	10/21/1999	GROUNDWATER			0.00	10.00
11MW0004	11MW0004	10/21/1999	GROUNDWATER			0.00	10.00
15MW0001	15MW0001	10/25/1999	GROUNDWATER			0.00	10.00
15MW0002	15MW0002	10/11/1999	GROUNDWATER			0.00	10.00
15MW0004	15MW0004	10/11/1999	GROUNDWATER			0.00	10.00
15MW0006	15MW0006	10/22/1999	GROUNDWATER			43.00	54.00
15MW0007	15MW0007	10/22/1999	GROUNDWATER			43.00	54.00
15MW0008	15MW0008	10/11/1999	GROUNDWATER			0.00	0.00
15MW0009	15MW0009	10/11/1999	GROUNDWATER			0.00	0.00
15WT0007	15WT0007	10/12/1999	GROUNDWATER			0.00	0.00
27MW0011A	27MW0011A	10/18/1999	GROUNDWATER			70.00	75.00
27MW0012A	27MW0012A	10/15/1999	GROUNDWATER			69.00	74.00
27MW0017A	27MW0017A	10/15/1999	GROUNDWATER			65.00	70.00
27MW0020Z	27MW0020Z	10/15/1999	GROUNDWATER			98.00	103.00
27MW702	27MW0702	10/15/1999	GROUNDWATER			0.00	10.00
90MW0005	90MW0005	10/26/1999	GROUNDWATER			98.00	103.00
90MW0013	90MW0013	10/18/1999	GROUNDWATER			0.00	10.00
90MW0014	90MW0014	10/18/1999	GROUNDWATER			78.00	83.00
90MW0019	90MW0019	10/18/1999	GROUNDWATER			78.00	83.00
90MW0021	90MW0021	10/18/1999	GROUNDWATER			78.00	83.00
90MW0029B	90MW0029B	10/22/1999	GROUNDWATER			0.00	10.00
90MW0031	90MW0031	10/25/1999	GROUNDWATER			112.00	117.00
90MW0038	90MW0038	10/19/1999	GROUNDWATER			29.00	34.00
90WT0015	90WT0015	10/21/1999	GROUNDWATER			0.00	10.00
ASPWELL	ASPWELL	10/13/1999	GROUNDWATER				
CEMETERY1	CEMETERY1	10/14/1999	GROUNDWATER				
CEMETERY2	CEMETERY2	10/14/1999	GROUNDWATER				
CEMETERY2D	CEMETERY2D	10/14/1999	GROUNDWATER				
PPAWSMW-1	PPAWSMW-1	10/28/1999	GROUNDWATER			10.00	20.00
PPAWSMW-2	PPAWSMW-2	10/28/1999	GROUNDWATER			0.00	10.00
PPAWSPW-1	PPAWSPW-1	10/28/1999	GROUNDWATER			158.00	178.00
PPAWSPW-2	PPAWSPW-2	10/28/1999	GROUNDWATER			85.00	105.00
PPAWSPW-2D	PPAWSPW-2	10/28/1999	GROUNDWATER			85.00	105.00
RANGECON	RANGECON	10/14/1999	GROUNDWATER				
RS0003ARND	3 Arnold Rd.	10/12/1999	GROUNDWATER	0.00	0.00		
RS0003RAC	3 Raccoon Lane	10/12/1999	GROUNDWATER	0.00	0.00		
RS0004OSNK	4 Old Snake Pon	10/12/1999	GROUNDWATER	0.00	0.00		
RS0006OSNK	6 Old Snake Pon	10/12/1999	GROUNDWATER	0.00	0.00		

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TABLE 2
SAMPLING PROGRESS
10/1-10/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
RS0011OSNK	11 Old Snake Po	10/12/1999	GROUNDWATER	0.00	0.00		
RS0012OSNK	12 Old Snake Po	10/12/1999	GROUNDWATER	0.00	0.00		
RS0014ARND	14 Arnold Rd.	10/12/1999	GROUNDWATER	0.00	0.00		
RS0015ARND	15 Arnold Rd.	10/12/1999	GROUNDWATER	0.00	0.00		
RS0018OSNK	18 Old Snake Po	10/12/1999	GROUNDWATER	0.00	0.00		
RS0024ARND	24 Arnold Rd.	10/13/1999	GROUNDWATER	0.00	0.00		
RS0033ARND	33 Arnold Rd.	10/12/1999	GROUNDWATER	0.00	0.00		
RS0034ARND	34 Arnold Rd.	10/12/1999	GROUNDWATER	0.00	0.00		
RS0036ARND	36 Arnold Rd.	10/12/1999	GROUNDWATER	0.00	0.00		
RS0039ARND	39 Arnold Rd.	10/12/1999	GROUNDWATER	0.00	0.00		
RS0040ARND	40 Arnold Rd.	10/15/1999	GROUNDWATER	0.00	0.00		
TEXTRON-PW1	TEXTRON-PW1	10/15/1999	GROUNDWATER				
TEXTRON-PW2	TEXTRON-PW2	10/18/1999	GROUNDWATER				
W17M1A	MW-17	10/29/1999	GROUNDWATER			97.00	107.00
W17M2A	MW-17	10/29/1999	GROUNDWATER			67.00	77.00
W17M3A	MW-17	10/29/1999	GROUNDWATER			37.00	47.00
W18SSA	MW-18	10/20/1999	GROUNDWATER			0.00	10.00
W21M1A	MW-21	10/29/1999	GROUNDWATER			93.00	103.00
W34M1A	MW-34	10/25/1999	GROUNDWATER			75.00	85.00
W34M1D	MW-34	10/25/1999	GROUNDWATER			75.00	85.00
W34M2A	MW-34	10/25/1999	GROUNDWATER			55.00	65.00
W34M3A	MW-34	10/25/1999	GROUNDWATER			34.00	44.00
W35M1A	MW-35	10/28/1999	GROUNDWATER			69.00	79.00
W35M2A	MW-35	10/28/1999	GROUNDWATER			14.00	24.00
W35SSA	MW-35	10/28/1999	GROUNDWATER			0.00	10.00
W36M1A	MW-36	10/25/1999	GROUNDWATER			79.00	89.00
W36M2A	MW-36	10/25/1999	GROUNDWATER			59.00	69.00
W36SSA	MW-36	10/25/1999	GROUNDWATER			0.00	10.00
W50SSA	MW-50	10/08/1999	GROUNDWATER			0.00	10.00
W64M1A	MW-64	10/19/1999	GROUNDWATER			37.00	47.00
W64M1D	MW-64	10/19/1999	GROUNDWATER			37.00	47.00
W64M2A	MW-64	10/20/1999	GROUNDWATER			8.00	13.00
W64SSA	MW-64	10/19/1999	GROUNDWATER			0.00	5.00
W65M1A	MW-65	10/26/1999	GROUNDWATER			88.00	98.00
W65M2A	MW-65	10/28/1999	GROUNDWATER			8.00	13.00
W65SSA	MW-65	10/26/1999	GROUNDWATER			-5.00	5.00
W66M1A	MW-66	10/20/1999	GROUNDWATER			99.00	109.00
W66M2A	MW-66	10/20/1999	GROUNDWATER			11.00	21.00
W66SSA	MW-66	10/20/1999	GROUNDWATER			-3.00	7.00
W67M1A	MW-67	10/27/1999	GROUNDWATER			87.00	97.00
W67M1L	MW-67	10/27/1999	GROUNDWATER			87.00	97.00
W67SSA	MW-67	10/27/1999	GROUNDWATER			5.00	15.00
W68M1A	MW-68	10/20/1999	GROUNDWATER			18.00	28.00
W68SSA	MW-68	10/20/1999	GROUNDWATER			-4.00	6.00
W69M1A	MW-69	10/27/1999	GROUNDWATER			77.00	87.00
W69M1D	MW-69	10/27/1999	GROUNDWATER			77.00	87.00
W69M2A	MW-69	10/27/1999	GROUNDWATER			40.00	50.00
W69SSA	MW-69	10/27/1999	GROUNDWATER			0.00	10.00
W70M1A	MW-70	10/27/1999	GROUNDWATER			130.00	140.00

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TABLE 2
SAMPLING PROGRESS
10/1-10/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W70M2A	MW-70	10/28/1999	GROUNDWATER			5.00	15.00
W71M1A	MW-71	10/29/1999	GROUNDWATER			20.00	30.00
W71M2A	MW-71	10/28/1999	GROUNDWATER			0.00	10.00
W81DDA	MW-81	10/12/1999	GROUNDWATER			155.00	165.00
W81M1A	MW-81	10/13/1999	GROUNDWATER			99.00	109.00
W81M1L	MW-81	10/13/1999	GROUNDWATER			99.00	109.00
W81M2A	MW-81	10/12/1999	GROUNDWATER			54.00	64.00
W81M3A	MW-81	10/13/1999	GROUNDWATER			24.00	29.00
W81SSA	MW-81	10/12/1999	GROUNDWATER			0.00	10.00
W82DDA	MW-82	10/13/1999	GROUNDWATER			96.00	106.00
W82DDL	MW-82	10/13/1999	GROUNDWATER			96.00	106.00
W82M1A	MW-82	10/13/1999	GROUNDWATER			75.00	85.00
W82M2A	MW-82	10/12/1999	GROUNDWATER			49.00	59.00
W82M3A	MW-82	10/12/1999	GROUNDWATER			25.00	35.00
W82SSA	MW-82	10/12/1999	GROUNDWATER			0.00	10.00
W83DDA	MW-83	10/12/1999	GROUNDWATER			105.00	115.00
W83M1A	MW-83	10/13/1999	GROUNDWATER			73.00	83.00
W83M2A	MW-83	10/13/1999	GROUNDWATER			48.00	58.00
W83M3A	MW-83	10/13/1999	GROUNDWATER			23.00	33.00
W83SSA	MW-83	10/14/1999	GROUNDWATER			0.00	10.00
W84SSA	MW-84	10/21/1999	GROUNDWATER			0.00	10.00
WC2XXA	58MW0002	10/08/1999	GROUNDWATER			25.00	30.00
WC2XXL	58MW0002	10/08/1999	GROUNDWATER			25.00	30.00
WC6EXA	58MW0006E	10/08/1999	GROUNDWATER			0.00	10.00
WF03MA	90MW0003	10/07/1999	GROUNDWATER			60.00	65.00
WF05XA	90WT0005	10/01/1999	GROUNDWATER			0.00	10.00
WF06XA	90WT0006	10/08/1999	GROUNDWATER			95.00	105.00
WF12XA	90MW0054	10/04/1999	GROUNDWATER			95.00	100.00
WF13XA	90WT0013	10/11/1999	GROUNDWATER			2.00	12.00
WF19XA	90WT0019	10/07/1999	GROUNDWATER			94.00	104.00
WF22XA	90MW0022	10/05/1999	GROUNDWATER			80.00	85.00
WF34XA	90MW0034	10/07/1999	GROUNDWATER			94.00	99.00
WF34XF	90MW0034	10/07/1999	GROUNDWATER			94.00	99.00
WF41XA	90MW0041	10/01/1999	GROUNDWATER			125.00	130.00
WF70XA	90MW0070	10/04/1999	GROUNDWATER			78.00	83.00
WF71XA	90MW0071	10/04/1999	GROUNDWATER			82.00	87.00
WF80XA	90MW0080	10/01/1999	GROUNDWATER			0.00	10.00
WG160A	SDW261160	10/01/1999	GROUNDWATER			0.00	0.00
WL14XA	LRWS1-4	10/06/1999	GROUNDWATER			107.00	117.00
WL26XA	LRWS2-6	10/04/1999	GROUNDWATER			75.00	90.00
WL28XA	28MW0106	10/06/1999	GROUNDWATER			0.00	10.00
WL31XA	LRMW0003	10/07/1999	GROUNDWATER			73.00	83.00
WRW1XA	RW-1	10/06/1999	GROUNDWATER			0.00	9.00
WRW1XD	RW-1	10/06/1999	GROUNDWATER			0.00	9.00
WRW3XA	RW-3	10/07/1999	GROUNDWATER			0.00	0.00
WSCNRA	Schooner Pass	10/05/1999	GROUNDWATER			0.00	0.00
WSMR3A	SMR-3	10/07/1999	GROUNDWATER			0.00	10.00
WSRM2A	SMR-2	10/06/1999	GROUNDWATER			0.00	10.00
WSRM4A	SMR-4	10/06/1999	GROUNDWATER			0.00	10.00

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SAMPLING PROGRESS
10/1-10/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
WT04XA	90WT0004	10/11/1999	GROUNDWATER			3.00	13.00
WT34AA	03MW0604A	10/05/1999	GROUNDWATER			64.00	69.00
WT360A	03MW0060	10/20/1999	GROUNDWATER			35.00	40.00
WT360L	03MW0060	10/20/1999	GROUNDWATER			35.00	40.00
WT711A	15WT0711	10/11/1999	GROUNDWATER			5.00	15.00
WT712A	15WT0712	10/11/1999	GROUNDWATER			5.00	15.00
WT712D	15WT0712	10/11/1999	GROUNDWATER			0.00	0.00
WU22XA	USFW228040	10/08/1999	GROUNDWATER			20.00	20.00
WU24XA	USFW241098	10/05/1999	GROUNDWATER			42.00	45.00
GAC12	GAC WATER	10/05/1999	IDW	0.00	0.00		
GAC4808	GAC WATER	10/08/1999	IDW	0.00	0.00		
GAC4812	GAC WATER	10/12/1999	IDW	0.00	0.00		
GAC4813	GAC WATER	10/13/1999	IDW	0.00	0.00		
GAC4814	GAC WATER	10/14/1999	IDW	0.00	0.00		
GAC4907	GAC WATER	10/07/1999	IDW	0.00	0.00		
GAC4907B	GAC WATER	10/08/1999	IDW	0.00	0.00		
GAC4908	GAC WATER	10/08/1999	IDW	0.00	0.00		
GAC4912	GAC WATER	10/12/1999	IDW	0.00	0.00		
GAC4913	GAC WATER	10/13/1999	IDW	0.00	0.00		
GAC5620	GAC WATER	10/20/1999	IDW	0.00	0.00		
GAC5621	GAC WATER	10/21/1999	IDW	0.00	0.00		
GAC6713	GAC WATER	10/13/1999	IDW	0.00	0.00		
GAC7119	GAC WATER	10/19/1999	IDW	0.00	0.00		
GACDP25	GAC WATER	10/25/1999	IDW	0.00	0.00		
GACWD49	GAC WATER	10/27/1999	IDW	0.00	0.00		
SC6201	GAC WATER	10/01/1999	IDW	0.00	0.00		
SC6202	GAC WATER	10/01/1999	IDW	0.00	0.00		
SC6301	GAC WATER	10/01/1999	IDW	0.00	0.00		
SC6302	GAC WATER	10/01/1999	IDW	0.00	0.00		
SC6401	GAC WATER	10/01/1999	IDW	0.00	0.00		
SC6402	GAC WATER	10/01/1999	IDW	0.00	0.00		
SC6801	GAC WATER	10/01/1999	IDW	0.00	0.00		
SC6802	GAC WATER	10/01/1999	IDW	0.00	0.00		
SC6901	GAC WATER	10/01/1999	IDW	0.00	0.00		
SC6902	GAC WATER	10/01/1999	IDW	0.00	0.00		
G48DAA	MW-48	10/08/1999	PROFILE	100.00	105.00	-1.50	3.50
G48DBA	MW-48	10/08/1999	PROFILE	110.00	115.00	8.50	13.50
G48DCA	MW-48	10/08/1999	PROFILE	120.00	125.00	18.50	23.50
G48DDA	MW-48	10/08/1999	PROFILE	130.00	135.00	28.50	33.50
G48DEA	MW-48	10/08/1999	PROFILE	140.00	145.00	38.50	43.50
G48DFA	MW-48	10/08/1999	PROFILE	150.00	155.00	48.50	53.50
G48DGA	MW-48	10/08/1999	PROFILE	160.00	165.00	58.50	63.50
G48DHA	MW-48	10/12/1999	PROFILE	170.00	175.00	68.50	73.50
G48DHD	MW-48	10/12/1999	PROFILE	170.00	175.00	68.50	73.50
G48DIA	MW-48	10/12/1999	PROFILE	180.00	185.00	78.50	83.50
G48DJA	MW-48	10/12/1999	PROFILE	190.00	195.00	88.50	93.50
G48DKA	MW-48	10/12/1999	PROFILE	200.00	205.00	98.50	103.50
G48DLA	MW-48	10/12/1999	PROFILE	210.00	215.00	108.50	113.50
G48DMA	MW-48	10/13/1999	PROFILE	220.00	225.00	118.50	123.50

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TABLE 2
SAMPLING PROGRESS
10/1-10/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G48DNA	MW-48	10/13/1999	PROFILE	230.00	235.00	128.50	133.50
G48DOA	MW-48	10/13/1999	PROFILE	240.00	245.00	138.50	143.50
G48DPA	MW-48	10/13/1999	PROFILE	250.00	255.00	148.50	153.50
G48DQA	MW-48	10/13/1999	PROFILE	260.00	265.00	158.50	163.50
G48DRA	MW-48	10/13/1999	PROFILE	270.00	275.00	168.50	173.50
G48DSA	MW-48	10/14/1999	PROFILE	280.00	285.00	178.50	183.50
G48DSD	MW-48	10/14/1999	PROFILE	280.00	285.00	178.50	183.50
G48DTA	MW-48	10/14/1999	PROFILE	290.00	295.00	188.50	193.50
G48DUA	MW-48	10/14/1999	PROFILE	300.00	305.00	198.50	203.50
G48DVA	MW-48	10/14/1999	PROFILE	310.00	315.00	208.50	213.50
G48DWA	MW-48	10/14/1999	PROFILE	320.00	325.00	218.50	223.50
G48DXA	MW-48	10/15/1999	PROFILE	330.00	335.00	228.50	233.50
G49DAA	MW-49	10/06/1999	PROFILE	71.00	74.00	0.50	3.50
G49DBA	MW-49	10/06/1999	PROFILE	80.00	85.00	9.50	14.50
G49DCA	MW-49	10/07/1999	PROFILE	90.00	95.00	19.50	24.50
G49DDA	MW-49	10/07/1999	PROFILE	100.00	105.00	29.50	34.50
G49DDD	MW-49	10/07/1999	PROFILE	100.00	105.00	29.50	34.50
G49DEA	MW-49	10/07/1999	PROFILE	110.00	115.00	39.50	44.50
G49DFA	MW-49	10/07/1999	PROFILE	120.00	125.00	49.50	54.50
G49DGA	MW-49	10/07/1999	PROFILE	130.00	135.00	59.50	64.50
G49DHA	MW-49	10/08/1999	PROFILE	140.00	145.00	69.50	74.50
G49DIA	MW-49	10/08/1999	PROFILE	150.00	155.00	79.50	84.50
G49DJA	MW-49	10/08/1999	PROFILE	160.00	165.00	89.50	94.50
G49DKA	MW-49	10/08/1999	PROFILE	170.00	175.00	99.50	104.50
G49DLA	MW-49	10/08/1999	PROFILE	180.00	185.00	109.50	114.50
G49DMA	MW-49	10/12/1999	PROFILE	190.00	195.00	119.50	124.50
G49DNA	MW-49	10/12/1999	PROFILE	200.00	205.00	129.50	134.50
G49DOA	MW-49	10/12/1999	PROFILE	210.00	215.00	139.50	144.50
G49DPA	MW-49	10/12/1999	PROFILE	220.00	225.00	149.50	154.50
G49DQA	MW-49	10/12/1999	PROFILE	230.00	235.00	159.50	164.50
G49DRA	MW-49	10/13/1999	PROFILE	240.00	245.00	169.50	174.50
G49DRD	MW-49	10/13/1999	PROFILE	240.00	245.00	169.50	174.50
G49DSA	MW-49	10/13/1999	PROFILE	250.00	255.00	179.50	184.50
G49DTA	MW-49	10/13/1999	PROFILE	260.00	265.00	189.50	194.50
G49DUA	MW-49	10/13/1999	PROFILE	270.00	275.00	199.50	204.50
G49DVA	MW-49	10/13/1999	PROFILE	280.00	285.00	209.50	214.50
G49DWA	MW-49	10/13/1999	PROFILE	290.00	295.00	219.50	224.50
G49DXA	MW-49	10/13/1999	PROFILE	300.00	305.00	229.50	234.50
G49DYA	MW-49	10/14/1999	PROFILE	307.00	312.00	236.50	241.50
G56DAA	MW-56	10/19/1999	PROFILE	76.00	81.00	5.00	10.00
G56DBA	MW-56	10/19/1999	PROFILE	85.00	90.00	14.00	19.00
G56DCA	MW-56	10/19/1999	PROFILE	90.00	95.00	19.00	24.00
G56DDA	MW-56	10/19/1999	PROFILE	100.00	105.00	29.00	34.00
G56DDD	MW-56	10/19/1999	PROFILE	100.00	105.00	29.00	34.00
G56DEA	MW-56	10/19/1999	PROFILE	110.00	115.00	39.00	44.00
G56DFA	MW-56	10/19/1999	PROFILE	120.00	125.00	49.00	54.00
G56DGA	MW-56	10/19/1999	PROFILE	130.00	135.00	59.00	64.00
G56DHA	MW-56	10/20/1999	PROFILE	140.00	145.00	69.00	74.00
G56DIA	MW-56	10/20/1999	PROFILE	150.00	155.00	79.00	84.00

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
SED = Sample End Depth, measured in feet bgs
BWTS = Depth below water table, start depth, measured in feet
BWTE = Depth below water table, end depth, measured in feet

TABLE 2
SAMPLING PROGRESS
10/1-10/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G56DJA	MW-56	10/20/1999	PROFILE	160.00	165.00	89.00	94.00
G56DKA	MW-56	10/20/1999	PROFILE	170.00	175.00	99.00	104.00
G56DLA	MW-56	10/20/1999	PROFILE	180.00	185.00	109.00	114.00
G56DMA	MW-56	10/20/1999	PROFILE	190.00	195.00	119.00	124.00
G56DMD	MW-56	10/20/1999	PROFILE	190.00	195.00	119.00	124.00
G56DNA	MW-56	10/20/1999	PROFILE	200.00	205.00	129.00	134.00
G56DOA	MW-56	10/21/1999	PROFILE	210.00	215.00	139.00	144.00
G56DPA	MW-56	10/21/1999	PROFILE	220.00	225.00	149.00	154.00
G56DQA	MW-56	10/21/1999	PROFILE	230.00	235.00	159.00	164.00
G56DRA	MW-56	10/21/1999	PROFILE	240.00	245.00	169.00	174.00
G56DSA	MW-56	10/21/1999	PROFILE	250.00	255.00	179.00	184.00
G56DTA	MW-56	10/21/1999	PROFILE	260.00	275.00	189.00	204.00
G57DAA	MW-57	10/29/1999	PROFILE	88.00	93.00	0.50	5.50
G57DBA	MW-57	10/29/1999	PROFILE	98.00	103.00	10.50	15.50
G70DAA	MW-70	10/04/1999	PROFILE	130.00	130.00	3.00	3.00
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00
G70DCA	MW-70	10/05/1999	PROFILE	150.00	150.00	23.00	23.00
G70DDA	MW-70	10/05/1999	PROFILE	160.00	160.00	33.00	33.00
G70DEA	MW-70	10/05/1999	PROFILE	170.00	170.00	43.00	43.00
G70DFA	MW-70	10/05/1999	PROFILE	180.00	180.00	53.00	53.00
G70DGA	MW-70	10/05/1999	PROFILE	190.00	190.00	63.00	63.00
G70DHA	MW-70	10/05/1999	PROFILE	200.00	200.00	73.00	73.00
G70DIA	MW-70	10/05/1999	PROFILE	210.00	210.00	83.00	83.00
G70DJA	MW-70	10/05/1999	PROFILE	220.00	220.00	93.00	93.00
G70DJD	MW-70	10/05/1999	PROFILE	220.00	220.00	93.00	93.00
G70DKA	MW-70	10/06/1999	PROFILE	230.00	230.00	103.00	103.00
G70DLA	MW-70	10/06/1999	PROFILE	240.00	240.00	113.00	113.00
G70DMA	MW-70	10/06/1999	PROFILE	250.00	250.00	123.00	123.00
G70DNA	MW-70	10/06/1999	PROFILE	260.00	260.00	133.00	133.00
G70DOA	MW-70	10/07/1999	PROFILE	270.00	270.00	143.00	143.00
G70DPA	MW-70	10/07/1999	PROFILE	280.00	280.00	153.00	153.00
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00
G76MBA	MW-76	10/18/1999	PROFILE	80.00	80.00	10.00	10.00
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00
G76MDA	MW-76	10/19/1999	PROFILE	100.00	100.00	30.00	30.00
G76MEA	MW-76	10/19/1999	PROFILE	110.00	110.00	40.00	40.00
G76MFA	MW-76	10/19/1999	PROFILE	120.00	120.00	50.00	50.00
G76MGA	MW-76	10/19/1999	PROFILE	130.00	130.00	60.00	60.00
G76MHA	MW-76	10/19/1999	PROFILE	140.00	140.00	70.00	70.00
G76MIA	MW-76	10/19/1999	PROFILE	150.00	150.00	80.00	80.00
G76MJA	MW-76	10/19/1999	PROFILE	160.00	160.00	90.00	90.00
G76MKA	MW-76	10/19/1999	PROFILE	170.00	170.00	100.00	100.00
G79MAA	MW-79	10/29/1999	PROFILE	100.00	100.00	9.70	9.70
G79MBA	MW-79	10/29/1999	PROFILE	110.00	110.00	19.70	19.70
G79MCA	MW-79	10/29/1999	PROFILE	120.00	120.00	29.70	29.70
G79MDA	MW-79	10/29/1999	PROFILE	130.00	130.00	39.70	39.70
HCDEMO2NW	HCDEMO2NW	10/04/1999	SOIL BORING	0.00	0.25		
HCDEMO2S	HCDEMO2S	10/04/1999	SOIL BORING	0.00	0.25		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
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TABLE 2
SAMPLING PROGRESS
10/1-10/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDDEMO2NW	HDDEMO2NW	10/04/1999	SOIL BORING	0.00	0.25		
HDDEMO2S	HDDEMO2S	10/04/1999	SOIL BORING	0.00	0.25		
AC5CA1AAA	AC5CA1AAA	10/14/1999	SOIL GRID	3.00	4.00		
AC5CA1BAA	AC5CA1BAA	10/14/1999	SOIL GRID	4.00	5.00		
AC5CA1CAA	AC5CA1CAA	10/14/1999	SOIL GRID	5.00	6.00		
AC5DA1AAA	AC5DA1AAA	10/14/1999	SOIL GRID	3.00	4.00		
AC5DA1BAA	AC5DA1BAA	10/14/1999	SOIL GRID	4.00	5.00		
AC5DA1CAA	AC5DA1CAA	10/14/1999	SOIL GRID	5.00	6.00		
HCAPC1AAA	HCAPC1AAA	10/19/1999	SOIL GRID	0.00	0.25		
HCAPC1AAD	HCAPC1AAD	10/19/1999	SOIL GRID	0.00	0.25		
HCAPC1BAA	HCAPC1BAA	10/19/1999	SOIL GRID	0.25	0.50		
HCAPC1CAA	HCAPC1CAA	10/19/1999	SOIL GRID	0.50	1.00		
HCGHM1AAA	HCGHM1AAA	10/15/1999	SOIL GRID	0.00	0.50		
HCGHM1BAA	HCGHM1BAA	10/15/1999	SOIL GRID	1.50	2.00		
HCGHO1AAA	HCGHO1AAA	10/15/1999	SOIL GRID	0.00	0.50		
HCGHO1BAA	HCGHO1BAA	10/15/1999	SOIL GRID	1.50	2.00		
HCGHP1AAA	HCGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50		
HCGHP1BAA	HCGHP1BAA	10/15/1999	SOIL GRID	1.50	2.00		
HDGHO1AAA	HDGHO1AAA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHO1BAA	HDGHO1BAA	10/15/1999	SOIL GRID	1.50	2.00		
HDGHO2AAA	HDGHO2AAA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHO2BAA	HDGHO2BAA	10/15/1999	SOIL GRID	1.50	2.00		
HDGHO3AAA	HDGHO3AAA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHO3BAA	HDGHO3BAA	10/15/1999	SOIL GRID	1.50	2.00		
HDGHO4AAA	HDGHO4AAA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHO4BAA	HDGHO4BAA	10/15/1999	SOIL GRID	1.50	2.00		
HDGHO5AAA	HDGHO5AAA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHO5AAD	HDGHO5AA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHO5BAA	HDGHO5BAA	10/15/1999	SOIL GRID	1.50	2.00		
HDGHP1AAA	HDGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHP1BAA	HDGHP1BAA	10/15/1999	SOIL GRID	1.50	2.00		
HDGHP2AAA	HDGHP2AAA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHP2BAA	HDGHP2BAA	10/15/1999	SOIL GRID	1.50	2.00		
HDGHP3AAA	HDGHP3AAA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHP3BAA	HDGHP3BAA	10/15/1999	SOIL GRID	1.50	2.00		
HDGHP4AAA	HDGHP4AAA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHP4BAA	HDGHP4BAA	10/15/1999	SOIL GRID	1.50	2.00		
HDGHP5AAA	HDGHP5AAA	10/15/1999	SOIL GRID	0.00	0.50		
HDGHP5BAA	HDGHP5BAA	10/15/1999	SOIL GRID	1.50	2.00		
SD2NWA	SD2NWA	10/26/1999	SOIL GRID	0.00	0.25		
SD2NWB	SD2NWB	10/26/1999	SOIL GRID	0.00	0.25		
SD2NWC	SD2NWC	10/26/1999	SOIL GRID	0.00	0.25		
SD2NWD	SD2NWD	10/26/1999	SOIL GRID	0.00	0.25		
SD2NWE	SD2NWE	10/26/1999	SOIL GRID	0.00	0.25		
SD2NWF	SD2NWF	10/26/1999	SOIL GRID	0.00	0.25		
SD2NWG	SD2NWG	10/26/1999	SOIL GRID	0.00	0.25		
SD2NWH	SD2NWH	10/26/1999	SOIL GRID	0.00	0.25		
SD2NWHD	SD2NWH	10/26/1999	SOIL GRID	0.00	0.25		

Profiling methods include: Volatiles and Explosives
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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH OCTOBER 1999

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
MW-19	W19SSA	03/05/1998	8330N	2,4,6-TRINITROTOLUENE	10.00	J	UG/L	0.00	10.00	2.00	X
MW-19	W19S2A	07/20/1998	8330N	2,4,6-TRINITROTOLUENE	16.00		UG/L	0.00	10.00	2.00	X
MW-19	W19S2D	07/20/1998	8330N	2,4,6-TRINITROTOLUENE	16.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	02/12/1999	8330N	2,4,6-TRINITROTOLUENE	7.20	J	UG/L	0.00	10.00	2.00	X
58MW0002	WC2XXA	02/26/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	19.00		UG/L	0.00	0.00	2.00	X
58MW0002	WC2XXA	01/14/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	20.00		UG/L	25.00	30.00	2.00	X
58MW0009E	WC9EXA	10/02/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	7.70		UG/L	21.00	26.00	2.00	X
58MW0009E	WC9EXA	01/26/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	17.00		UG/L	21.00	26.00	2.00	X
90MW0022	WF22XA	01/26/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	3.80		UG/L	80.00	85.00	2.00	X
90MW0022	WF22XA	02/16/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	5.40		UG/L	80.00	85.00	2.00	X
90WT0013	WF13XA	01/16/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	5.20	J	UG/L	2.00	12.00	2.00	X
MW-1	W01SSA	09/30/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	2.50		UG/L	0.00	10.00	2.00	X
MW-1	W01SSD	09/30/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	2.40		UG/L	0.00	10.00	2.00	X
MW-1	W01SSA	02/22/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	2.80		UG/L	0.00	10.00	2.00	X
MW-1	W01MMA	09/29/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	4.60		UG/L	40.00	45.00	2.00	X
MW-1	W01M2A	03/01/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	2.20		UG/L	40.00	45.00	2.00	X
MW-19	W19SSA	03/05/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	190.00		UG/L	0.00	10.00	2.00	X
MW-19	W19S2A	07/20/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	260.00		UG/L	0.00	10.00	2.00	X
MW-19	W19S2D	07/20/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	260.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	02/12/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	250.00		UG/L	0.00	10.00	2.00	X
MW-2	W02M2A	01/20/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	13.00		UG/L	31.00	36.00	2.00	X
MW-2	W02M2A	02/03/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	6.80		UG/L	31.00	36.00	2.00	X
MW-23	W23M1A	11/07/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	2.30	J	UG/L	99.00	109.00	2.00	X
MW-23	W23M1A	03/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	4.40		UG/L	99.00	109.00	2.00	X
MW-23	W23M1D	03/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	4.70		UG/L	99.00	109.00	2.00	X
MW-25	W25SSA	10/16/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	2.00		UG/L	0.00	10.00	2.00	X
MW-25	W25SSA	03/17/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	4.10		UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	07/15/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	64.00		UG/L	14.00	19.00	2.00	X
MW-31	W31SSA	02/01/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	210.00		UG/L	14.00	19.00	2.00	X
MW-31	W31MMA	07/15/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	280.00		UG/L	29.00	39.00	2.00	X
MW-31	W31MMA	02/02/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	370.00		UG/L	29.00	39.00	2.00	X
MW-34	W34M2A	02/19/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	6.20		UG/L	55.00	65.00	2.00	X
MW-38	W38M3A	05/06/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5	2.50		UG/L	53.00	63.00	2.00	X
MW-3	W03DDL	03/06/1998	IM40MB	ANTIMONY	13.80	J	UG/L	218.00	223.00	6.00	X
MW-2	W02SSA	02/23/1998	IM40MB	LEAD	20.10		UG/L	0.00	10.00	15.00	X
MW-13	W13SSA	01/27/1998	IM40MB	MOLYBDENUM	11.20		UG/L	0.00	10.00	10.00	X
MW-13	W13SSL	01/27/1998	IM40MB	MOLYBDENUM	10.40	J	UG/L	0.00	10.00	10.00	X

BWTS = DEPTH BELOW WATER TABLE, START DEPTH, MEASURED IN FEET
BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
MCL/HA = EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT OR LIFETIME)
>MCL/HA = EQUALS OR EXCEEDS EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT, OR LIFETIME)

TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH OCTOBER 1999

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
MW-13	W13DDA	01/26/1998	IM40MB	MOLYBDENUM	26.60		UG/L	140.00	145.00	10.00	X
MW-13	W13DDL	01/26/1998	IM40MB	MOLYBDENUM	30.40		UG/L	140.00	145.00	10.00	X
MW-13	W13DDA	03/11/1999	IM40MB	MOLYBDENUM	11.00		UG/L	140.00	145.00	10.00	X
MW-13	W13DDD	03/11/1999	IM40MB	MOLYBDENUM	12.10	J	UG/L	140.00	145.00	10.00	X
MW-16	W16SSA	03/10/1999	IM40MB	MOLYBDENUM	21.00	J	UG/L	0.00	10.00	10.00	X
MW-16	W16DDA	03/09/1999	IM40MB	MOLYBDENUM	22.20		UG/L	222.00	227.00	10.00	X
MW-16	W16DDD	03/09/1999	IM40MB	MOLYBDENUM	23.20		UG/L	222.00	227.00	10.00	X
MW-17	W17M1L	05/18/1999	IM40MB	MOLYBDENUM	12.60		UG/L	97.00	107.00	10.00	X
MW-2	W02SSA	02/23/1998	IM40MB	MOLYBDENUM	72.10		UG/L	0.00	10.00	10.00	X
MW-2	W02SSL	02/23/1998	IM40MB	MOLYBDENUM	63.30		UG/L	0.00	10.00	10.00	X
MW-2	W02SSA	02/01/1999	IM40MB	MOLYBDENUM	26.10	J	UG/L	0.00	10.00	10.00	X
MW-2	W02SSL	02/01/1999	IM40MB	MOLYBDENUM	34.00		UG/L	0.00	10.00	10.00	X
MW-2	W02DDA	02/02/1999	IM40MB	MOLYBDENUM	25.60		UG/L	287.00	295.00	10.00	X
MW-2	W02DDL	02/02/1999	IM40MB	MOLYBDENUM	26.30	J	UG/L	287.00	295.00	10.00	X
MW-46	W46M2A	03/30/1999	IM40MB	MOLYBDENUM	48.90		UG/L	55.00	65.00	10.00	X
MW-46	W46M2L	03/30/1999	IM40MB	MOLYBDENUM	51.00		UG/L	55.00	65.00	10.00	X
MW-46	W46M1A	03/29/1999	IM40MB	MOLYBDENUM	32.80		UG/L	102.00	112.00	10.00	X
MW-46	W46DDA	04/01/1999	IM40MB	MOLYBDENUM	17.20		UG/L	135.00	145.00	10.00	X
MW-47	W47M3A	03/29/1999	IM40MB	MOLYBDENUM	43.10		UG/L	21.00	31.00	10.00	X
MW-47	W47M3L	03/29/1999	IM40MB	MOLYBDENUM	40.50		UG/L	21.00	31.00	10.00	X
MW-47	W47M2A	03/26/1999	IM40MB	MOLYBDENUM	11.00		UG/L	38.00	48.00	10.00	X
MW-5	W05DDA	02/13/1998	IM40MB	MOLYBDENUM	28.30		UG/L	220.00	225.00	10.00	X
MW-5	W05DDL	02/13/1998	IM40MB	MOLYBDENUM	26.60		UG/L	220.00	225.00	10.00	X
MW-50	W50M2A	04/26/1999	IM40MB	MOLYBDENUM	20.60		UG/L	59.00	69.00	10.00	X
MW-50	W50M1A	04/27/1999	IM40MB	MOLYBDENUM	11.80		UG/L	90.00	100.00	10.00	X
MW-52	W52M3A	04/07/1999	IM40MB	MOLYBDENUM	72.60		UG/L	26.00	36.00	10.00	X
MW-52	W52M3L	04/07/1999	IM40MB	MOLYBDENUM	67.60		UG/L	26.00	36.00	10.00	X
MW-52	W52M2A	04/29/1999	IM40MB	MOLYBDENUM	15.30		UG/L	74.00	84.00	10.00	X
MW-52	W52M2L	04/29/1999	IM40MB	MOLYBDENUM	18.50		UG/L	74.00	84.00	10.00	X
MW-52	W52DDA	04/02/1999	IM40MB	MOLYBDENUM	51.10		UG/L	219.00	229.00	10.00	X
MW-52	W52DDL	04/02/1999	IM40MB	MOLYBDENUM	48.90		UG/L	219.00	229.00	10.00	X
MW-53	W53SSA	02/17/1999	IM40MB	MOLYBDENUM	24.90		UG/L	0.00	10.00	10.00	X
MW-53	W53SSL	02/17/1999	IM40MB	MOLYBDENUM	27.60		UG/L	0.00	10.00	10.00	X
MW-53	W53M1A	05/03/1999	IM40MB	MOLYBDENUM	122.00		UG/L	100.00	110.00	10.00	X
MW-53	W53M1L	05/03/1999	IM40MB	MOLYBDENUM	132.00		UG/L	100.00	110.00	10.00	X
MW-53	W53DDA	02/18/1999	IM40MB	MOLYBDENUM	15.90		UG/L	157.00	167.00	10.00	X
MW-53	W53DDL	02/18/1999	IM40MB	MOLYBDENUM	17.40		UG/L	157.00	167.00	10.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH OCTOBER 1999

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
MW-54	W54SSA	04/30/1999	IM40MB	MOLYBDENUM	56.70		UG/L	0.00	10.00	10.00	X
MW-54	W54SSL	04/30/1999	IM40MB	MOLYBDENUM	66.20		UG/L	0.00	10.00	10.00	X
MW-54	W54M2A	05/04/1999	IM40MB	MOLYBDENUM	11.20		UG/L	58.00	68.00	10.00	X
MW-54	W54M2L	05/04/1999	IM40MB	MOLYBDENUM	13.10		UG/L	58.00	68.00	10.00	X
MW-54	W54M1A	04/30/1999	IM40MB	MOLYBDENUM	11.80		UG/L	80.00	90.00	10.00	X
MW-54	W54DDA	05/05/1999	IM40MB	MOLYBDENUM	17.50		UG/L	126.00	136.00	10.00	X
MW-55	W55SSA	05/17/1999	IM40MB	MOLYBDENUM	15.90		UG/L	0.00	10.00	10.00	X
MW-55	W55M2A	05/14/1999	IM40MB	MOLYBDENUM	21.80		UG/L	60.00	70.00	10.00	X
MW-55	W55M1A	05/13/1999	IM40MB	MOLYBDENUM	12.50		UG/L	90.00	100.00	10.00	X
MW-55	W55DDA	05/13/1999	IM40MB	MOLYBDENUM	22.60		UG/L	120.00	130.00	10.00	X
15MW0002	15MW0002	04/08/1999	IM40MB	SODIUM	37,600.00		UG/L	0.00	10.00	20,000.00	X
90WT0015	90WT0015	04/23/1999	IM40MB	SODIUM	34,300.00		UG/L	0.00	10.00	20,000.00	X
MW-16	W16SSA	11/17/1997	IM40MB	SODIUM	20,900.00		UG/L	0.00	10.00	20,000.00	X
MW-16	W16SSL	11/17/1997	IM40MB	SODIUM	20,400.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02SSA	02/23/1998	IM40MB	SODIUM	27,200.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02SSL	02/23/1998	IM40MB	SODIUM	26,300.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02SSA	02/01/1999	IM40MB	SODIUM	20,300.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02SSL	02/01/1999	IM40MB	SODIUM	20,100.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02DDA	11/19/1997	IM40MB	SODIUM	21,500.00		UG/L	287.00	295.00	20,000.00	X
MW-2	W02DDL	11/19/1997	IM40MB	SODIUM	22,600.00		UG/L	287.00	295.00	20,000.00	X
MW-21	W21SSA	10/24/1997	IM40MB	SODIUM	24,000.00		UG/L	0.00	10.00	20,000.00	X
MW-21	W21SSL	10/24/1997	IM40MB	SODIUM	24,200.00		UG/L	0.00	10.00	20,000.00	X
MW-46	W46M2A	03/30/1999	IM40MB	SODIUM	23,300.00		UG/L	55.00	65.00	20,000.00	X
MW-46	W46M2L	03/30/1999	IM40MB	SODIUM	24,400.00		UG/L	55.00	65.00	20,000.00	X
SDW261160	WG160L	01/07/1998	IM40MB	SODIUM	20,600.00		UG/L	0.00	0.00	20,000.00	X
SDW261160	WG160A	01/13/1999	IM40MB	SODIUM	27,200.00		UG/L	0.00	0.00	20,000.00	X
SDW261160	WG160L	01/13/1999	IM40MB	SODIUM	28,200.00		UG/L	0.00	0.00	20,000.00	X
03MW0006	03MW0006	04/15/1999	IM40MB	THALLIUM	2.60	J	UG/L	0.00	10.00	2.00	X
03MW0022A	03MW0022A	04/16/1999	IM40MB	THALLIUM	3.90		UG/L	71.00	76.00	2.00	X
03MW0027A	03MW0027A	04/14/1999	IM40MB	THALLIUM	2.00	J	UG/L	64.00	69.00	2.00	X
11MW0004	11MW0004	04/16/1999	IM40MB	THALLIUM	2.30	J	UG/L	0.00	10.00	2.00	X
27MW0020Z	27MW0020Z	04/16/1999	IM40MB	THALLIUM	2.70	J	UG/L	98.00	103.00	2.00	X
90MW0038	90MW0038	04/21/1999	IM40MB	THALLIUM	4.40	J	UG/L	29.00	34.00	2.00	X
90WT0010	WF10XA	01/16/1998	IM40MB	THALLIUM	6.50	J	UG/L	2.00	12.00	2.00	X
LRWS1-4	WL14XA	01/07/1999	IM40MB	THALLIUM	5.20	J	UG/L	107.00	117.00	2.00	X
MW-18	W18SSA	03/12/1999	IM40MB	THALLIUM	2.30	J	UG/L	0.00	10.00	2.00	X
MW-19	W19DDL	02/11/1999	IM40MB	THALLIUM	3.10	J	UG/L	251.00	256.00	2.00	X

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TABLE 3
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1997 THROUGH OCTOBER 1999

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
MW-21	W21SSA	10/24/1997	IM40MB	THALLIUM	6.90	J	UG/L	0.00	10.00	2.00	X
MW-38	W38M2A	05/11/1999	IM40MB	THALLIUM	4.90	J	UG/L	70.00	80.00	2.00	X
MW-41	W41M2A	04/02/1999	IM40MB	THALLIUM	2.50	J	UG/L	69.00	79.00	2.00	X
MW-45	W45SSA	05/26/1999	IM40MB	THALLIUM	3.00	J	UG/L	0.00	10.00	2.00	X
MW-47	W47M2A	03/26/1999	IM40MB	THALLIUM	3.20	J	UG/L	38.00	48.00	2.00	X
MW-52	W52M3L	04/07/1999	IM40MB	THALLIUM	3.60	J	UG/L	26.00	36.00	2.00	X
MW-52	W52DDA	04/02/1999	IM40MB	THALLIUM	2.80	J	UG/L	219.00	229.00	2.00	X
MW-52	W52DDL	04/02/1999	IM40MB	THALLIUM	2.60	J	UG/L	219.00	229.00	2.00	X
MW-7	W07MMA	02/23/1999	IM40MB	THALLIUM	4.10	J	UG/L	67.00	72.00	2.00	X
MW-7	W07M2L	02/05/1998	IM40MB	THALLIUM	6.60	J	UG/L	137.00	142.00	2.00	X
MW-7	W07M2A	02/24/1999	IM40MB	THALLIUM	4.40	J	UG/L	137.00	142.00	2.00	X
MW-72	W72SSA	05/27/1999	IM40MB	THALLIUM	4.00		UG/L	0.00	10.00	2.00	X
PPAWSMW-1	PPAWSMW-1	06/22/1999	IM40MB	THALLIUM	3.10	J	UG/L	10.00	20.00	2.00	X
SMR-2	WSMR2A	03/25/1999	IM40MB	THALLIUM	2.00	J	UG/L	0.00	10.00	2.00	X
95-15	W9515A	10/17/1997	IM40MB	ZINC	7,210.00		UG/L	80.00	92.00	2,000.00	X
95-15	W9515L	10/17/1997	IM40MB	ZINC	4,620.00		UG/L	80.00	92.00	2,000.00	X
LRWS3-1	WL31XA	10/21/1997	IM40MB	ZINC	2,480.00		UG/L	102.00	117.00	2,000.00	X
LRWS3-1	WL31XL	10/21/1997	IM40MB	ZINC	2,410.00		UG/L	102.00	117.00	2,000.00	X
LRWS4-1	WL41XA	11/24/1997	IM40MB	ZINC	3,220.00		UG/L	66.00	91.00	2,000.00	X
LRWS4-1	WL41XL	11/24/1997	IM40MB	ZINC	3,060.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51DL	11/25/1997	IM40MB	ZINC	4,410.00		UG/L	66.00	91.00	2,000.00	X
LRWS5-1	WL51XA	11/25/1997	IM40MB	ZINC	4,510.00		UG/L	187.00	202.00	2,000.00	X
LRWS5-1	WL51XD	11/25/1997	IM40MB	ZINC	4,390.00		UG/L	187.00	202.00	2,000.00	X
LRWS5-1	WL51XL	11/25/1997	IM40MB	ZINC	3,900.00		UG/L	187.00	202.00	2,000.00	X
LRWS5-1	WL51XA	01/25/1999	IM40MB	ZINC	3,980.00		UG/L	187.00	202.00	2,000.00	X
LRWS5-1	WL51XL	01/25/1999	IM40MB	ZINC	3,770.00		UG/L	187.00	202.00	2,000.00	X
LRWS6-1	WL61XA	11/17/1997	IM40MB	ZINC	3,480.00		UG/L	184.00	199.00	2,000.00	X
LRWS6-1	WL61XL	11/17/1997	IM40MB	ZINC	2,600.00		UG/L	184.00	199.00	2,000.00	X
LRWS6-1	WL61XA	01/28/1999	IM40MB	ZINC	2,240.00		UG/L	184.00	199.00	2,000.00	X
LRWS6-1	WL61XL	01/28/1999	IM40MB	ZINC	2,200.00		UG/L	184.00	199.00	2,000.00	X
LRWS7-1	WL71XA	11/21/1997	IM40MB	ZINC	4,320.00		UG/L	186.00	201.00	2,000.00	X
LRWS7-1	WL71XL	11/21/1997	IM40MB	ZINC	3,750.00		UG/L	186.00	201.00	2,000.00	X
LRWS7-1	WL71XA	01/22/1999	IM40MB	ZINC	4,160.00		UG/L	186.00	201.00	2,000.00	X
LRWS7-1	WL71XL	01/22/1999	IM40MB	ZINC	4,100.00		UG/L	186.00	201.00	2,000.00	X
11MW0003	WF143A	02/25/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	9.00		UG/L	0.00	0.00	6.00	X
15MW0004	15MW0004	04/09/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	6.00		UG/L	0.00	10.00	6.00	X
15MW0008	15MW0008D	04/12/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	25.00	J	UG/L	0.00	0.00	6.00	X

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1997 THROUGH OCTOBER 1999

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28MW0106	WL28XA	02/19/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	18.00	J	UG/L	0.00	10.00	6.00	X
28MW0106	WL28XA	03/23/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	26.00		UG/L	0.00	10.00	6.00	X
58MW0002	WC2XXA	02/26/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	36.00		UG/L	0.00	0.00	6.00	X
58MW0006E	WC6EXA	10/03/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	59.00		UG/L	0.00	10.00	6.00	X
58MW0006E	WC6EXD	10/03/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	57.00		UG/L	0.00	10.00	6.00	X
58MW0006E	WC6EXA	01/29/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	6.00		UG/L	0.00	10.00	6.00	X
90WT0005	WF05XA	01/13/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	47.00		UG/L	0.00	10.00	6.00	X
90WT0013	WF13XA	01/16/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	34.00		UG/L	2.00	12.00	6.00	X
90WT0013	WF13XA	01/14/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	16.00		UG/L	2.00	12.00	6.00	X
97-1	W9701A	11/19/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	54.00	J	UG/L	62.00	72.00	6.00	X
97-1	W9701D	11/19/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	28.00	J	UG/L	62.00	72.00	6.00	X
97-2	W9702A	11/20/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	7.00		UG/L	53.00	63.00	6.00	X
97-3	W9703A	11/21/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	73.00	J	UG/L	36.00	46.00	6.00	X
97-5	W9705A	11/20/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	15.00		UG/L	76.00	86.00	6.00	X
BHW215083	WG083A	11/26/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	13.00		UG/L	0.00	0.00	6.00	X
LRWS2-3	WL23XA	11/21/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	20.00	J	UG/L	68.00	83.00	6.00	X
LRWS2-6	WL26XA	10/20/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	21.00		UG/L	75.00	90.00	6.00	X
LRWS4-1	WL41XA	11/24/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	100.00		UG/L	66.00	91.00	6.00	X
LRWS5-1	WL51XA	11/25/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	7.00		UG/L	187.00	202.00	6.00	X
MW-11	W11SSA	11/06/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	33.00	J	UG/L	0.00	10.00	6.00	X
MW-11	W11SSD	11/06/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	23.00	J	UG/L	0.00	10.00	6.00	X
MW-12	W12SSA	11/06/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	28.00		UG/L	0.00	10.00	6.00	X
MW-14	W14SSA	11/04/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	14.00		UG/L	0.00	10.00	6.00	X
MW-16	W16SSA	11/17/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	28.00		UG/L	0.00	10.00	6.00	X
MW-16	W16DDA	11/17/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	43.00		UG/L	108.00	113.00	6.00	X
MW-17	W17SSD	11/10/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	120.00	J	UG/L	0.00	10.00	6.00	X
MW-17	W17DDA	11/11/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	42.00		UG/L	197.00	207.00	6.00	X
MW-18	W18SSA	10/10/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	36.00		UG/L	0.00	10.00	6.00	X
MW-19	W19DDA	03/04/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	7.00		UG/L	251.00	256.00	6.00	X
MW-2	W02M2A	01/20/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	24.00		UG/L	31.00	36.00	6.00	X
MW-2	W02M1A	01/21/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	10.00	J	UG/L	73.00	78.00	6.00	X
MW-2	W02DDA	02/02/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	9.00		UG/L	287.00	295.00	6.00	X
MW-20	W20SSA	11/07/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	280.00		UG/L	0.00	10.00	6.00	X
MW-21	W21M2A	04/01/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	8.00		UG/L	58.00	68.00	6.00	X
MW-22	W22SSA	11/24/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	96.00		UG/L	0.00	10.00	6.00	X
MW-23	W23SSA	10/27/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	24.00		UG/L	0.00	10.00	6.00	X
MW-23	W23M3A	11/13/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	10.00		UG/L	153.00	163.00	6.00	X

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MW-23	W23M3D	11/13/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	13.00		UG/L	153.00	163.00	6.00	X
MW-24	W24SSA	11/14/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	8.00		UG/L	0.00	10.00	6.00	X
MW-28	W28SSA	11/03/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	11.00		UG/L	0.00	10.00	6.00	X
MW-29	W29SSA	11/03/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	16.00		UG/L	0.00	10.00	6.00	X
MW-38	W38M3A	05/06/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	15.00		UG/L	53.00	63.00	6.00	X
MW-4	W04SSA	11/04/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	30.00		UG/L	0.00	10.00	6.00	X
MW-43	W43M1A	05/26/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	6.00		UG/L	93.00	103.00	6.00	X
MW-45	W45M1A	05/24/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	37.00		UG/L	98.00	108.00	6.00	X
MW-5	W05DDA	02/13/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	9.00	J	UG/L	220.00	225.00	6.00	X
MW-53	W53DDA	02/18/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	18.00		UG/L	157.00	167.00	6.00	X
MW-55	W55DDA	05/13/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	8.00		UG/L	120.00	130.00	6.00	X
MW-7	W07SSA	10/31/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	10.00		UG/L	0.00	10.00	6.00	X
RW-1	WRW1XA	02/18/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHALATE	59.00		UG/L	0.00	9.00	6.00	X
MW-45	W45SSA	05/26/1999	OC21B	NAPHTHALENE	24.00		UG/L	0.00	10.00	20.00	X
03MW0007A	03MW0007A	04/13/1999	OC21V	TETRACHLOROETHYLENE(PCE)	6.00		UG/L	21.00	26.00	5.00	X
03MW0014A	03MW0014A	04/13/1999	OC21V	TETRACHLOROETHYLENE(PCE)	8.00		UG/L	38.00	43.00	5.00	X
03MW0020	03MW0020	04/14/1999	OC21V	TETRACHLOROETHYLENE(PCE)	12.00		UG/L	36.00	41.00	5.00	X
27MW0017B	27MW0017B	04/30/1999	OC21V	VINYL CHLORIDE	2.00		UG/L	21.00	26.00	2.00	X
PPAWSMW-1	PPAWSMW-1	06/22/1999	OL21P	DIELDRIN	3.00		UG/L	10.00	20.00	0.50	X

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BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
MCL/HA = EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT OR LIFETIME)
>MCL/HA = EQUALS OR EXCEEDS EITHER THE MCL OR LOWEST HEALTH ADVISORY CONCENTRATION (CHILD, ADULT, OR LIFETIME)

TABLE 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 9/13/99-10/31/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G70DME	FIELDQC	10/06/1999	FIELDQC	0.00	0.00			8330N	PENTAERYTHRITOL TETRANITR/	NO
G71DCE	FIELDQC	09/27/1999	FIELDQC	0.00	0.00			8330N	NITROGLYCERIN	NO
WL28XE	FIELDQC	10/06/1999	FIELDQC	0.00	0.00			8330N	PENTAERYTHRITOL TETRANITR/	NO
15MW0007	15MW0007	10/22/1999	GROUNDWATER			43.00	54.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
27MW0017A	27MW0017A	10/15/1999	GROUNDWATER			65.00	70.00	8330N	3-NITROTOLUENE	NO
W34M1A	MW-34	10/25/1999	GROUNDWATER			75.00	85.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W34M1D	MW-34	10/25/1999	GROUNDWATER			75.00	85.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W34M2A	MW-34	10/25/1999	GROUNDWATER			55.00	65.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
W37M2A	MW-37	09/29/1999	GROUNDWATER			28.00	38.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W37M3A	MW-37	09/28/1999	GROUNDWATER			13.00	23.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W37M3D	MW-37	09/28/1999	GROUNDWATER			13.00	23.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W40M1A	MW-40	09/21/1999	GROUNDWATER			110.00	120.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W40M1D	MW-40	09/21/1999	GROUNDWATER			110.00	120.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W82M1A	MW-82	10/13/1999	GROUNDWATER			75.00	85.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
WC2XXA	58MW0002	10/08/1999	GROUNDWATER			25.00	30.00	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
WC2XXA	58MW0002	10/08/1999	GROUNDWATER			25.00	30.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
WC2XXA	58MW0002	10/08/1999	GROUNDWATER			25.00	30.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
WC2XXA	58MW0002	10/08/1999	GROUNDWATER			25.00	30.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
WC6EXA	58MW0006E	10/08/1999	GROUNDWATER			0.00	10.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
WC9EXA	58MW0009E	09/28/1999	GROUNDWATER			21.00	26.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
WC9EXA	58MW0009E	09/28/1999	GROUNDWATER			21.00	26.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
WC9EXA	58MW0009E	09/28/1999	GROUNDWATER			21.00	26.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
WC9EXD	58MW0009E	09/28/1999	GROUNDWATER			21.00	26.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
WC9EXD	58MW0009E	09/28/1999	GROUNDWATER			21.00	26.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
WC9EXD	58MW0009E	09/28/1999	GROUNDWATER			21.00	26.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
WF03MA	90MW0003	10/07/1999	GROUNDWATER			60.00	65.00	8330N	1,3,5-TRINITROBENZENE	NO
WF03MA	90MW0003	10/07/1999	GROUNDWATER			60.00	65.00	8330N	2,6-DINITROTOLUENE	NO
WF03MA	90MW0003	10/07/1999	GROUNDWATER			60.00	65.00	8330N	3-NITROTOLUENE	NO
WF03MA	90MW0003	10/07/1999	GROUNDWATER			60.00	65.00	8330N	4-NITROTOLUENE	NO
WF03MA	90MW0003	10/07/1999	GROUNDWATER			60.00	65.00	8330N	NITROGLYCERIN	NO
WF13XA	90WT0013	10/11/1999	GROUNDWATER			2.00	12.00	8330N	1,3,5-TRINITROBENZENE	NO
WF13XA	90WT0013	10/11/1999	GROUNDWATER			2.00	12.00	8330N	2-NITROTOLUENE	NO

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(UNVALIDATED)
SAMPLES COLLECTED 9/13/99-10/31/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
WF19XA	90WT0019	10/07/1999	GROUNDWATER			94.00	104.00	8330N	1,3,5-TRINITROBENZENE	NO
WF19XA	90WT0019	10/07/1999	GROUNDWATER			94.00	104.00	8330N	3-NITROTOLUENE	NO
WF19XA	90WT0019	10/07/1999	GROUNDWATER			94.00	104.00	8330N	4-NITROTOLUENE	NO
WF19XA	90WT0019	10/07/1999	GROUNDWATER			94.00	104.00	8330N	TETRYL	NO
WF22XA	90MW0022	09/30/1999	GROUNDWATER			80.00	85.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
WF34XA	90MW0034	10/07/1999	GROUNDWATER			94.00	99.00	8330N	2-NITROTOLUENE	NO
WL14XA	LRWS1-4	10/06/1999	GROUNDWATER			107.00	117.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
WRW1XA	RW-1	10/06/1999	GROUNDWATER			0.00	9.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
WRW1XD	RW-1	10/06/1999	GROUNDWATER			0.00	9.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
WT04XA	90WT0004	10/11/1999	GROUNDWATER			3.00	13.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G48DAA	MW-48	10/08/1999	PROFILE	100.00	105.00	-1.50	3.50	OC21V	ACETONE	
G48DAA	MW-48	10/08/1999	PROFILE	100.00	105.00	-1.50	3.50	OC21V	CHLOROFORM	
G48DBA	MW-48	10/08/1999	PROFILE	110.00	115.00	8.50	13.50	OC21V	CHLOROFORM	
G48DCA	MW-48	10/08/1999	PROFILE	120.00	125.00	18.50	23.50	OC21V	CHLOROFORM	
G48DDA	MW-48	10/08/1999	PROFILE	130.00	135.00	28.50	33.50	OC21V	CHLOROFORM	
G48DEA	MW-48	10/08/1999	PROFILE	140.00	145.00	38.50	43.50	OC21V	CHLOROFORM	
G48DFA	MW-48	10/08/1999	PROFILE	150.00	155.00	48.50	53.50	OC21V	CHLOROFORM	
G48DIA	MW-48	10/12/1999	PROFILE	180.00	185.00	78.50	83.50	OC21V	CHLOROFORM	
G48DJA	MW-48	10/12/1999	PROFILE	190.00	195.00	88.50	93.50	OC21V	CHLOROFORM	
G48DMA	MW-48	10/13/1999	PROFILE	220.00	225.00	118.50	123.50	OC21V	CHLOROFORM	
G48DNA	MW-48	10/13/1999	PROFILE	230.00	235.00	128.50	133.50	OC21V	CHLOROFORM	
G48DOA	MW-48	10/13/1999	PROFILE	240.00	245.00	138.50	143.50	OC21V	CHLOROFORM	
G48DPA	MW-48	10/13/1999	PROFILE	250.00	255.00	148.50	153.50	OC21V	CHLOROFORM	
G48DQA	MW-48	10/13/1999	PROFILE	260.00	265.00	158.50	163.50	OC21V	CHLOROFORM	
G48DRA	MW-48	10/13/1999	PROFILE	270.00	275.00	168.50	173.50	OC21V	CHLOROFORM	
G48DSA	MW-48	10/14/1999	PROFILE	280.00	285.00	178.50	183.50	OC21V	CHLOROFORM	
G48DSD	MW-48	10/14/1999	PROFILE	280.00	285.00	178.50	183.50	OC21V	ACETONE	
G48DSD	MW-48	10/14/1999	PROFILE	280.00	285.00	178.50	183.50	OC21V	CHLOROFORM	
G48DTA	MW-48	10/14/1999	PROFILE	290.00	295.00	188.50	193.50	OC21V	ACETONE	
G48DTA	MW-48	10/14/1999	PROFILE	290.00	295.00	188.50	193.50	OC21V	CHLOROFORM	
G48DUA	MW-48	10/14/1999	PROFILE	300.00	305.00	198.50	203.50	OC21V	CHLOROFORM	
G48DVA	MW-48	10/14/1999	PROFILE	310.00	315.00	208.50	213.50	OC21V	CHLOROFORM	

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TABLE 4
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(UNVALIDATED)
SAMPLES COLLECTED 9/13/99-10/31/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G48DWA	MW-48	10/14/1999	PROFILE	320.00	325.00	218.50	223.50	OC21V	CHLOROFORM	
G48DXA	MW-48	10/15/1999	PROFILE	330.00	335.00	228.50	233.50	OC21V	CHLOROFORM	
G49DAA	MW-49	10/06/1999	PROFILE	71.00	74.00	0.50	3.50	8330N	2,4-DINITROTOLUENE	NO
G49DAA	MW-49	10/06/1999	PROFILE	71.00	74.00	0.50	3.50	8330N	NITROGLYCERIN	NO
G49DAA	MW-49	10/06/1999	PROFILE	71.00	74.00	0.50	3.50	OC21V	ACETONE	
G49DAA	MW-49	10/06/1999	PROFILE	71.00	74.00	0.50	3.50	OC21V	CHLOROFORM	
G49DAA	MW-49	10/06/1999	PROFILE	71.00	74.00	0.50	3.50	OC21V	METHYL ETHYL KETONE (2-BUTA	
G49DAA	MW-49	10/06/1999	PROFILE	71.00	74.00	0.50	3.50	OC21V	TOLUENE	
G49DBA	MW-49	10/06/1999	PROFILE	80.00	85.00	9.50	14.50	OC21V	CHLOROFORM	
G49DCA	MW-49	10/07/1999	PROFILE	90.00	95.00	19.50	24.50	OC21V	CHLOROFORM	
G49DDA	MW-49	10/07/1999	PROFILE	100.00	105.00	29.50	34.50	OC21V	CHLOROFORM	
G49DEA	MW-49	10/07/1999	PROFILE	110.00	115.00	39.50	44.50	OC21V	CHLOROFORM	
G49DFA	MW-49	10/07/1999	PROFILE	120.00	125.00	49.50	54.50	OC21V	CHLOROFORM	
G49DGA	MW-49	10/07/1999	PROFILE	130.00	135.00	59.50	64.50	OC21V	CHLOROFORM	
G49DKA	MW-49	10/08/1999	PROFILE	170.00	175.00	99.50	104.50	OC21V	CHLOROFORM	
G49DMA	MW-49	10/12/1999	PROFILE	190.00	195.00	119.50	124.50	OC21V	CHLOROFORM	
G49DNA	MW-49	10/12/1999	PROFILE	200.00	205.00	129.50	134.50	OC21V	CHLOROFORM	
G49DOA	MW-49	10/12/1999	PROFILE	210.00	215.00	139.50	144.50	OC21V	CHLOROFORM	
G49DOA	MW-49	10/12/1999	PROFILE	210.00	215.00	139.50	144.50	OC21V	TOLUENE	
G49DPA	MW-49	10/12/1999	PROFILE	220.00	225.00	149.50	154.50	OC21V	CHLOROFORM	
G49DQA	MW-49	10/12/1999	PROFILE	230.00	235.00	159.50	164.50	OC21V	CHLOROFORM	
G49DRA	MW-49	10/13/1999	PROFILE	240.00	245.00	169.50	174.50	OC21V	CHLOROFORM	
G49DSA	MW-49	10/13/1999	PROFILE	250.00	255.00	179.50	184.50	OC21V	CHLOROFORM	
G49DSA	MW-49	10/13/1999	PROFILE	250.00	255.00	179.50	184.50	OC21V	CHLOROMETHANE	
G49DTA	MW-49	10/13/1999	PROFILE	260.00	265.00	189.50	194.50	OC21V	CHLOROFORM	
G49DUA	MW-49	10/13/1999	PROFILE	270.00	275.00	199.50	204.50	OC21V	CHLOROFORM	
G49DVA	MW-49	10/13/1999	PROFILE	280.00	285.00	209.50	214.50	OC21V	CHLOROFORM	
G49DWA	MW-49	10/13/1999	PROFILE	290.00	295.00	219.50	224.50	OC21V	CHLOROFORM	
G49DXA	MW-49	10/13/1999	PROFILE	300.00	305.00	229.50	234.50	OC21V	CHLOROFORM	
G56DAA	MW-56	10/19/1999	PROFILE	76.00	81.00	5.00	10.00	8330N	PICRIC ACID	NO
G56DAA	MW-56	10/19/1999	PROFILE	76.00	81.00	5.00	10.00	OC21V	ACETONE	
G56DAA	MW-56	10/19/1999	PROFILE	76.00	81.00	5.00	10.00	OC21V	CHLOROFORM	

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TABLE 4
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SAMPLES COLLECTED 9/13/99-10/31/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G56DBA	MW-56	10/19/1999	PROFILE	85.00	90.00	14.00	19.00	OC21V	ACETONE	
G56DBA	MW-56	10/19/1999	PROFILE	85.00	90.00	14.00	19.00	OC21V	CHLOROFORM	
G56DCA	MW-56	10/19/1999	PROFILE	90.00	95.00	19.00	24.00	OC21V	CHLOROFORM	
G56DDA	MW-56	10/19/1999	PROFILE	100.00	105.00	29.00	34.00	OC21V	CHLOROFORM	
G56DEA	MW-56	10/19/1999	PROFILE	110.00	115.00	39.00	44.00	OC21V	CHLOROFORM	
G56DEA	MW-56	10/19/1999	PROFILE	110.00	115.00	39.00	44.00	OC21V	TOLUENE	
G56DFA	MW-56	10/19/1999	PROFILE	120.00	125.00	49.00	54.00	OC21V	CHLOROFORM	
G56DGA	MW-56	10/19/1999	PROFILE	130.00	135.00	59.00	64.00	OC21V	CHLOROFORM	
G56DGA	MW-56	10/19/1999	PROFILE	130.00	135.00	59.00	64.00	OC21V	TOLUENE	
G56DHA	MW-56	10/20/1999	PROFILE	140.00	145.00	69.00	74.00	OC21V	CHLOROFORM	
G56DIA	MW-56	10/20/1999	PROFILE	150.00	155.00	79.00	84.00	OC21V	CHLOROFORM	
G56DIA	MW-56	10/20/1999	PROFILE	150.00	155.00	79.00	84.00	OC21V	TOLUENE	
G56DJA	MW-56	10/20/1999	PROFILE	160.00	165.00	89.00	94.00	OC21V	CHLOROFORM	
G56DKA	MW-56	10/20/1999	PROFILE	170.00	175.00	99.00	104.00	OC21V	CHLOROFORM	
G56DKA	MW-56	10/20/1999	PROFILE	170.00	175.00	99.00	104.00	OC21V	TOLUENE	
G56DOA	MW-56	10/21/1999	PROFILE	210.00	215.00	139.00	144.00	OC21V	CHLOROFORM	
G56DOA	MW-56	10/21/1999	PROFILE	210.00	215.00	139.00	144.00	OC21V	TOLUENE	
G56DPA	MW-56	10/21/1999	PROFILE	220.00	225.00	149.00	154.00	OC21V	CHLOROFORM	
G56DQA	MW-56	10/21/1999	PROFILE	230.00	235.00	159.00	164.00	OC21V	CHLOROFORM	
G56DQA	MW-56	10/21/1999	PROFILE	230.00	235.00	159.00	164.00	OC21V	TOLUENE	
G56DRA	MW-56	10/21/1999	PROFILE	240.00	245.00	169.00	174.00	OC21V	CHLOROFORM	
G56DTA	MW-56	10/21/1999	PROFILE	260.00	275.00	189.00	204.00	OC21V	TOLUENE	
G57DAA	MW-57	10/29/1999	PROFILE	88.00	93.00	0.50	5.50	8330N	1,3,5-TRINITROBENZENE	NO
G57DAA	MW-57	10/29/1999	PROFILE	88.00	93.00	0.50	5.50	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G57DAA	MW-57	10/29/1999	PROFILE	88.00	93.00	0.50	5.50	8330N	NITROGLYCERIN	NO
G57DAA	MW-57	10/29/1999	PROFILE	88.00	93.00	0.50	5.50	8330N	PICRIC ACID	NO
G57DAA	MW-57	10/29/1999	PROFILE	88.00	93.00	0.50	5.50	OC21V	ACETONE	
G57DAA	MW-57	10/29/1999	PROFILE	88.00	93.00	0.50	5.50	OC21V	CHLOROFORM	
G57DAA	MW-57	10/29/1999	PROFILE	88.00	93.00	0.50	5.50	OC21V	TOLUENE	
G57DBA	MW-57	10/29/1999	PROFILE	98.00	103.00	10.50	15.50	8330N	1,3,5-TRINITROBENZENE	NO
G57DBA	MW-57	10/29/1999	PROFILE	98.00	103.00	10.50	15.50	8330N	3-NITROTOLUENE	NO
G57DBA	MW-57	10/29/1999	PROFILE	98.00	103.00	10.50	15.50	OC21V	CHLOROFORM	

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PDA/NO = Photo Diode Array, Detect Not Confirmed

TABLE 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 9/13/99-10/31/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G70DAA	MW-70	10/04/1999	PROFILE	130.00	130.00	3.00	3.00	8330N	3-NITROTOLUENE	NO
G70DAA	MW-70	10/04/1999	PROFILE	130.00	130.00	3.00	3.00	8330N	4-NITROTOLUENE	NO
G70DAA	MW-70	10/04/1999	PROFILE	130.00	130.00	3.00	3.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
G70DAA	MW-70	10/04/1999	PROFILE	130.00	130.00	3.00	3.00	8330N	PICRIC ACID	NO
G70DAA	MW-70	10/04/1999	PROFILE	130.00	130.00	3.00	3.00	OC21V	2-HEXANONE	
G70DAA	MW-70	10/04/1999	PROFILE	130.00	130.00	3.00	3.00	OC21V	ACETONE	
G70DAA	MW-70	10/04/1999	PROFILE	130.00	130.00	3.00	3.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	8330N	2,6-DINITROTOLUENE	YES
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	8330N	3-NITROTOLUENE	NO
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	8330N	4-NITROTOLUENE	NO
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	8330N	PICRIC ACID	NO
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	OC21V	1,2,4-TRICHLOROBENZENE	
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	OC21V	1,2-DIBROMO-3-CHLOROPROPAI	
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	OC21V	2-CHLOROETHYL VINYL ETHER	
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	OC21V	ACETONE	
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	OC21V	BENZENE	
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DBA	MW-70	10/05/1999	PROFILE	140.00	140.00	13.00	13.00	OC21V	TOLUENE	
G70DCA	MW-70	10/05/1999	PROFILE	150.00	150.00	23.00	23.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
G70DCA	MW-70	10/05/1999	PROFILE	150.00	150.00	23.00	23.00	8330N	PICRIC ACID	NO
G70DCA	MW-70	10/05/1999	PROFILE	150.00	150.00	23.00	23.00	OC21V	2-HEXANONE	
G70DCA	MW-70	10/05/1999	PROFILE	150.00	150.00	23.00	23.00	OC21V	ACETONE	
G70DCA	MW-70	10/05/1999	PROFILE	150.00	150.00	23.00	23.00	OC21V	CHLOROFORM	
G70DCA	MW-70	10/05/1999	PROFILE	150.00	150.00	23.00	23.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DDA	MW-70	10/05/1999	PROFILE	160.00	160.00	33.00	33.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
G70DDA	MW-70	10/05/1999	PROFILE	160.00	160.00	33.00	33.00	OC21V	2-HEXANONE	
G70DDA	MW-70	10/05/1999	PROFILE	160.00	160.00	33.00	33.00	OC21V	ACETONE	
G70DDA	MW-70	10/05/1999	PROFILE	160.00	160.00	33.00	33.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DEA	MW-70	10/05/1999	PROFILE	170.00	170.00	43.00	43.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
G70DEA	MW-70	10/05/1999	PROFILE	170.00	170.00	43.00	43.00	OC21V	2-HEXANONE	

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DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 9/13/99-10/31/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G70DEA	MW-70	10/05/1999	PROFILE	170.00	170.00	43.00	43.00	OC21V	ACETONE	
G70DEA	MW-70	10/05/1999	PROFILE	170.00	170.00	43.00	43.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DFA	MW-70	10/05/1999	PROFILE	180.00	180.00	53.00	53.00	OC21V	ACETONE	
G70DFA	MW-70	10/05/1999	PROFILE	180.00	180.00	53.00	53.00	OC21V	CHLOROFORM	
G70DFA	MW-70	10/05/1999	PROFILE	180.00	180.00	53.00	53.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DGA	MW-70	10/05/1999	PROFILE	190.00	190.00	63.00	63.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G70DGA	MW-70	10/05/1999	PROFILE	190.00	190.00	63.00	63.00	8330N	PICRIC ACID	NO
G70DGA	MW-70	10/05/1999	PROFILE	190.00	190.00	63.00	63.00	OC21V	2-HEXANONE	
G70DGA	MW-70	10/05/1999	PROFILE	190.00	190.00	63.00	63.00	OC21V	ACETONE	
G70DGA	MW-70	10/05/1999	PROFILE	190.00	190.00	63.00	63.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DHA	MW-70	10/05/1999	PROFILE	200.00	200.00	73.00	73.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G70DHA	MW-70	10/05/1999	PROFILE	200.00	200.00	73.00	73.00	OC21V	ACETONE	
G70DHA	MW-70	10/05/1999	PROFILE	200.00	200.00	73.00	73.00	OC21V	CHLOROFORM	
G70DHA	MW-70	10/05/1999	PROFILE	200.00	200.00	73.00	73.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DIA	MW-70	10/05/1999	PROFILE	210.00	210.00	83.00	83.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G70DIA	MW-70	10/05/1999	PROFILE	210.00	210.00	83.00	83.00	OC21V	ACETONE	
G70DIA	MW-70	10/05/1999	PROFILE	210.00	210.00	83.00	83.00	OC21V	CHLOROFORM	
G70DIA	MW-70	10/05/1999	PROFILE	210.00	210.00	83.00	83.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DJA	MW-70	10/05/1999	PROFILE	220.00	220.00	93.00	93.00	OC21V	ACETONE	
G70DJA	MW-70	10/05/1999	PROFILE	220.00	220.00	93.00	93.00	OC21V	CHLOROFORM	
G70DJD	MW-70	10/05/1999	PROFILE	220.00	220.00	93.00	93.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G70DKA	MW-70	10/06/1999	PROFILE	230.00	230.00	103.00	103.00	8330N	3-NITROTOLUENE	NO
G70DKA	MW-70	10/06/1999	PROFILE	230.00	230.00	103.00	103.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G70DKA	MW-70	10/06/1999	PROFILE	230.00	230.00	103.00	103.00	8330N	PICRIC ACID	NO
G70DKA	MW-70	10/06/1999	PROFILE	230.00	230.00	103.00	103.00	OC21V	ACETONE	
G70DLA	MW-70	10/06/1999	PROFILE	240.00	240.00	113.00	113.00	8330N	3-NITROTOLUENE	NO
G70DLA	MW-70	10/06/1999	PROFILE	240.00	240.00	113.00	113.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G70DLA	MW-70	10/06/1999	PROFILE	240.00	240.00	113.00	113.00	8330N	4-NITROTOLUENE	NO
G70DLA	MW-70	10/06/1999	PROFILE	240.00	240.00	113.00	113.00	8330N	NITROGLYCERIN	NO
G70DLA	MW-70	10/06/1999	PROFILE	240.00	240.00	113.00	113.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G70DLA	MW-70	10/06/1999	PROFILE	240.00	240.00	113.00	113.00	8330N	PICRIC ACID	NO
G70DLA	MW-70	10/06/1999	PROFILE	240.00	240.00	113.00	113.00	OC21V	ACETONE	

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TABLE 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 9/13/99-10/31/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G70DLA	MW-70	10/06/1999	PROFILE	240.00	240.00	113.00	113.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DMA	MW-70	10/06/1999	PROFILE	250.00	250.00	123.00	123.00	8330N	3-NITROTOLUENE	NO
G70DMA	MW-70	10/06/1999	PROFILE	250.00	250.00	123.00	123.00	8330N	4-NITROTOLUENE	NO
G70DMA	MW-70	10/06/1999	PROFILE	250.00	250.00	123.00	123.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G70DMA	MW-70	10/06/1999	PROFILE	250.00	250.00	123.00	123.00	8330N	PICRIC ACID	NO
G70DMA	MW-70	10/06/1999	PROFILE	250.00	250.00	123.00	123.00	OC21V	ACETONE	
G70DMA	MW-70	10/06/1999	PROFILE	250.00	250.00	123.00	123.00	OC21V	METHYL ETHYL KETONE (2-BUTA	
G70DNA	MW-70	10/06/1999	PROFILE	260.00	260.00	133.00	133.00	8330N	2,6-DINITROTOLUENE	YES
G70DNA	MW-70	10/06/1999	PROFILE	260.00	260.00	133.00	133.00	8330N	2-NITROTOLUENE	NO
G70DNA	MW-70	10/06/1999	PROFILE	260.00	260.00	133.00	133.00	8330N	3-NITROTOLUENE	NO
G70DNA	MW-70	10/06/1999	PROFILE	260.00	260.00	133.00	133.00	8330N	4-NITROTOLUENE	NO
G70DNA	MW-70	10/06/1999	PROFILE	260.00	260.00	133.00	133.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G70DNA	MW-70	10/06/1999	PROFILE	260.00	260.00	133.00	133.00	8330N	PICRIC ACID	NO
G70DNA	MW-70	10/06/1999	PROFILE	260.00	260.00	133.00	133.00	OC21V	ACETONE	
G70DOA	MW-70	10/07/1999	PROFILE	270.00	270.00	143.00	143.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G70DOA	MW-70	10/07/1999	PROFILE	270.00	270.00	143.00	143.00	8330N	PICRIC ACID	NO
G70DPA	MW-70	10/07/1999	PROFILE	280.00	280.00	153.00	153.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G70DPA	MW-70	10/07/1999	PROFILE	280.00	280.00	153.00	153.00	OC21V	ACETONE	
G71DCA	MW-71	09/27/1999	PROFILE	180.00	185.00	20.00	25.00	OC21V	CHLOROFORM	
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	2,4-DINITROTOLUENE	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	2-NITROTOLUENE	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	3-NITROTOLUENE	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	4-NITROTOLUENE	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	NITROGLYCERIN	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	PICRIC ACID	NO
G76MBA	MW-76	10/18/1999	PROFILE	80.00	80.00	10.00	10.00	8330N	NITROGLYCERIN	NO
G76MBA	MW-76	10/18/1999	PROFILE	80.00	80.00	10.00	10.00	8330N	PENTAERYTHRITOL TETRANITRA	NO
G76MBA	MW-76	10/18/1999	PROFILE	80.00	80.00	10.00	10.00	8330N	PICRIC ACID	NO
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	3-NITROTOLUENE	NO
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES

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TABLE 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 9/13/99-10/31/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	NITROGLYCERIN	NO
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	PICRIC ACID	NO
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	3-NITROTOLUENE	YES
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	NITROGLYCERIN	NO
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	PICRIC ACID	NO
G76MDA	MW-76	10/19/1999	PROFILE	100.00	100.00	30.00	30.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G76MDA	MW-76	10/19/1999	PROFILE	100.00	100.00	30.00	30.00	8330N	NITROGLYCERIN	NO
G76MDA	MW-76	10/19/1999	PROFILE	100.00	100.00	30.00	30.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G76MDA	MW-76	10/19/1999	PROFILE	100.00	100.00	30.00	30.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
G76MEA	MW-76	10/19/1999	PROFILE	110.00	110.00	40.00	40.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G76MEA	MW-76	10/19/1999	PROFILE	110.00	110.00	40.00	40.00	8330N	NITROGLYCERIN	NO
G76MEA	MW-76	10/19/1999	PROFILE	110.00	110.00	40.00	40.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G76MEA	MW-76	10/19/1999	PROFILE	110.00	110.00	40.00	40.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
G76MFA	MW-76	10/19/1999	PROFILE	120.00	120.00	50.00	50.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G76MFA	MW-76	10/19/1999	PROFILE	120.00	120.00	50.00	50.00	8330N	NITROGLYCERIN	NO
G76MKA	MW-76	10/19/1999	PROFILE	170.00	170.00	100.00	100.00	8330N	PENTAERYTHRITOL TETRANITR/	NO
G79MAA	MW-79	10/29/1999	PROFILE	100.00	100.00	9.70	9.70	8330N	NITROGLYCERIN	NO
G79MAA	MW-79	10/29/1999	PROFILE	100.00	100.00	9.70	9.70	8330N	PICRIC ACID	NO
G79MBA	MW-79	10/29/1999	PROFILE	110.00	110.00	19.70	19.70	8330N	PENTAERYTHRITOL TETRANITR/	NO
G79MBA	MW-79	10/29/1999	PROFILE	110.00	110.00	19.70	19.70	8330N	PICRIC ACID	NO
G79MCA	MW-79	10/29/1999	PROFILE	120.00	120.00	29.70	29.70	8330N	PENTAERYTHRITOL TETRANITR/	NO
G79MDA	MW-79	10/29/1999	PROFILE	130.00	130.00	39.70	39.70	8330N	PENTAERYTHRITOL TETRANITR/	NO
G79MDA	MW-79	10/29/1999	PROFILE	130.00	130.00	39.70	39.70	8330N	PICRIC ACID	NO
HCDEMO2NW	HCDEMO2NW	10/04/1999	SOIL BORING	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HCDEMO2NW	HCDEMO2NW	10/04/1999	SOIL BORING	0.00	0.25			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
HDDEMO2NW	HDDEMO2NW	10/04/1999	SOIL BORING	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HDDEMO2NW	HDDEMO2NW	10/04/1999	SOIL BORING	0.00	0.25			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES

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(UNVALIDATED)
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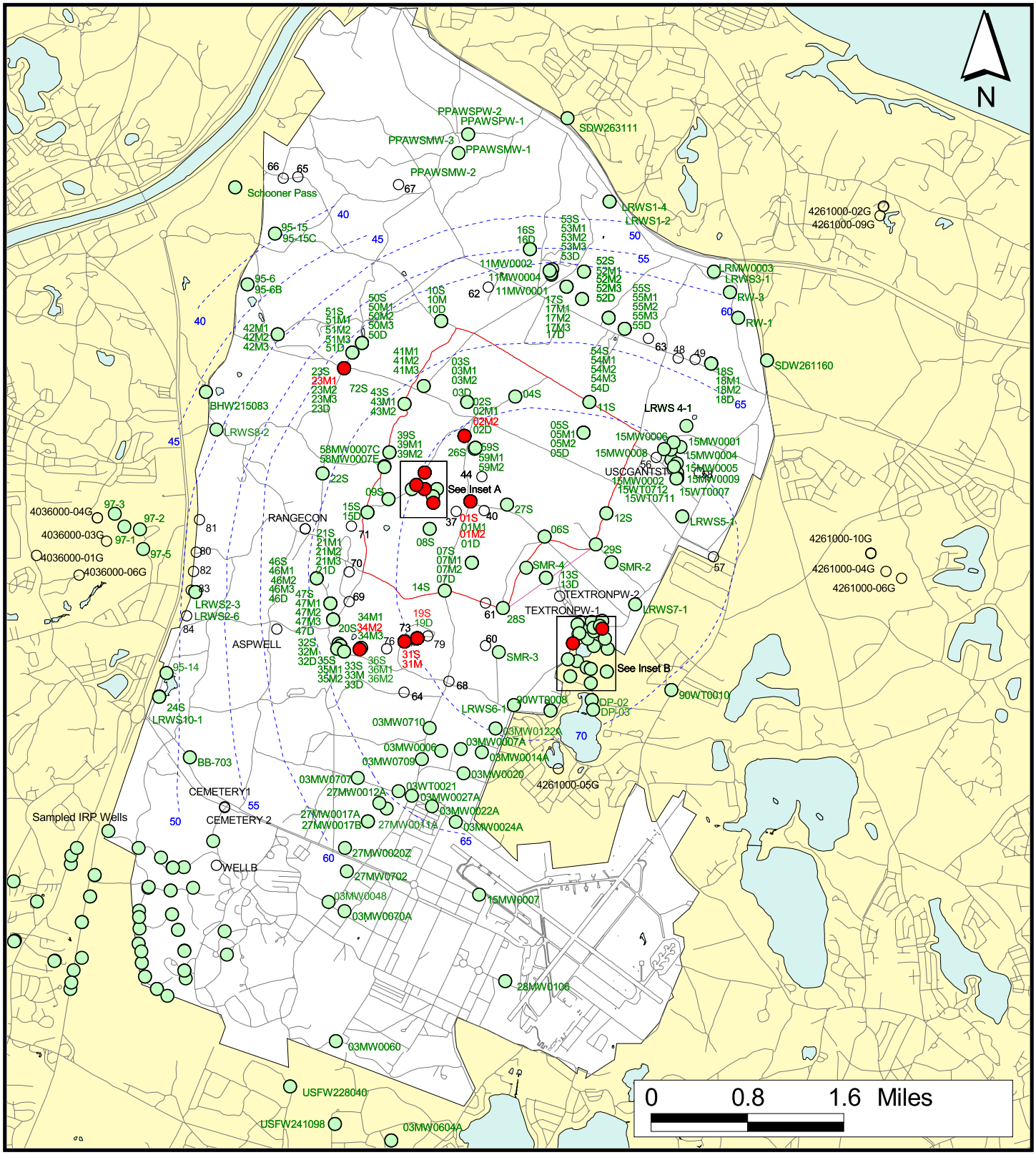
OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
HDJRANGED	HDJRANGED	09/30/1999	SOIL BORING	0.00	3.00			8330N	TETRYL	YES
HCAPC1AAA	HCAPC1AAA	10/19/1999	SOIL GRID	0.00	0.25			8330N	2-AMINO-4,6-DINITROTOLUENE	YES
HCAPC1AAA	HCAPC1AAA	10/19/1999	SOIL GRID	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HCAPC1AAA	HCAPC1AAA	10/19/1999	SOIL GRID	0.00	0.25			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
HCAPC1AAD	HCAPC1AAD	10/19/1999	SOIL GRID	0.00	0.25			8330N	2-AMINO-4,6-DINITROTOLUENE	YES
HCAPC1AAD	HCAPC1AAD	10/19/1999	SOIL GRID	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HCAPC1AAD	HCAPC1AAD	10/19/1999	SOIL GRID	0.00	0.25			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
HCAPC1BAA	HCAPC1BAA	10/19/1999	SOIL GRID	0.25	0.50			8330N	2-AMINO-4,6-DINITROTOLUENE	YES
HCAPC1BAA	HCAPC1BAA	10/19/1999	SOIL GRID	0.25	0.50			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HCAPC1BAA	HCAPC1BAA	10/19/1999	SOIL GRID	0.25	0.50			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
HCAPC1CAA	HCAPC1CAA	10/19/1999	SOIL GRID	0.50	1.00			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HCGHM1AAA	HCGHM1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HCGHM1AAA	HCGHM1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HCGHM1BAA	HCGHM1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HCGHO1AAA	HCGHO1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	2,4-DINITROTOLUENE	
HCGHO1AAA	HCGHO1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HCGHO1AAA	HCGHO1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	DI-N-BUTYL PHTHALATE	
HCGHO1AAA	HCGHO1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HCGHO1BAA	HCGHO1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HCGHP1AAA	HCGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	2,4-DINITROTOLUENE	
HCGHP1AAA	HCGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	DI-N-BUTYL PHTHALATE	
HCGHP1AAA	HCGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	N-NITROSODIPHENYLAMINE	
HCGHP1AAA	HCGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HCGHP1BAA	HCGHP1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHO1BAA	HDGHO1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HDGHO1BAA	HDGHO1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHO2AAA	HDGHO2AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HDGHO2AAA	HDGHO2AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHO2BAA	HDGHO2BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHO3AAA	HDGHO3AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHO3BAA	HDGHO3BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHO4BAA	HDGHO4BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	

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

TABLE 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 9/13/99-10/31/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
HDGHO4BAA	HDGHO4BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHO5AAA	HDGHO5AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HDGHO5AAA	HDGHO5AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHO5AAD	HDGHO5AA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	DI-N-BUTYL PHTHALATE	
HDGHO5AAD	HDGHO5AA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHO5BAA	HDGHO5BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHP1AAA	HDGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	2,4-DINITROTOLUENE	
HDGHP1AAA	HDGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	DI-N-BUTYL PHTHALATE	
HDGHP1AAA	HDGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	N-NITROSODIPHENYLAMINE	
HDGHP1AAA	HDGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHP1BAA	HDGHP1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHP2AAA	HDGHP2AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HDGHP2BAA	HDGHP2BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	2,4-DINITROTOLUENE	
HDGHP2BAA	HDGHP2BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	DI-N-BUTYL PHTHALATE	
HDGHP2BAA	HDGHP2BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	N-NITROSODIPHENYLAMINE	
HDGHP2BAA	HDGHP2BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHP3AAA	HDGHP3AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHP3BAA	HDGHP3BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHP4AAA	HDGHP4AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHP5AAA	HDGHP5AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHP5BAA	HDGHP5BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
SD2NWF	SD2NWF	10/26/1999	SOIL GRID	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES

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



Sources & Notes

Map Coordinates: Stateplane, NAD83, Zone 4151, Meters
Source: MASSGIS

Legend

- Validated Data GTE MCL/HAs
- Validated Data LT MCL/HAs
- No Data Available

Figure 1
Explosives in Groundwater
Compared to MCL/HAs
Validated Data As Of 10/17/99

Analyte Group
1

November 8, 1999 DRAFT

L:\MMR\GIS\November99\Monthly Maps\Exp! GTE MCL\HA

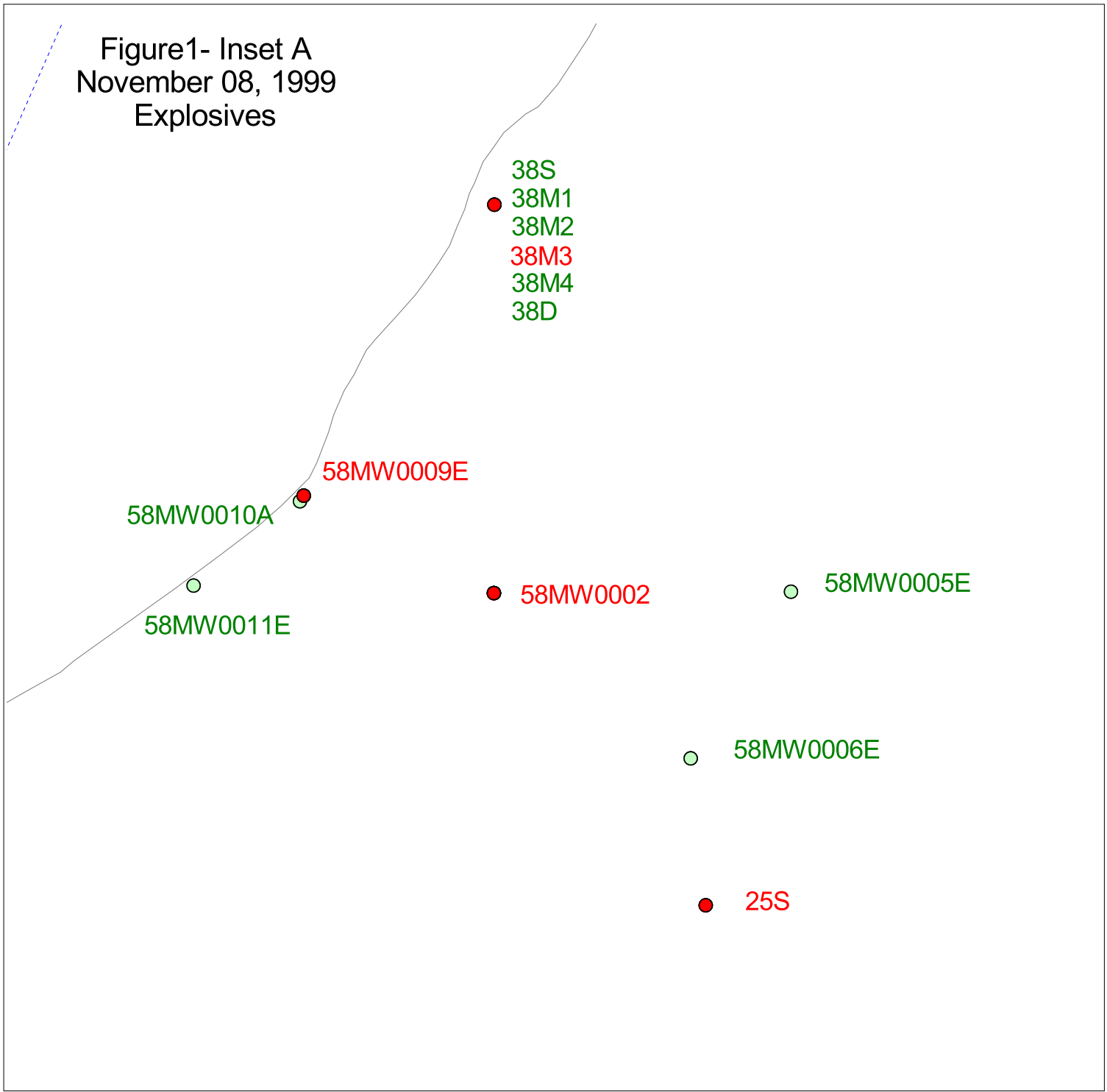


Figure1- Inset A
November 08, 1999
Explosives
38S
38M1
38M2
38M3
38M4
38D
58MW0009E
58MW0010A
58MW0011E
58MW0002
58MW0005E
58MW0006E
25S

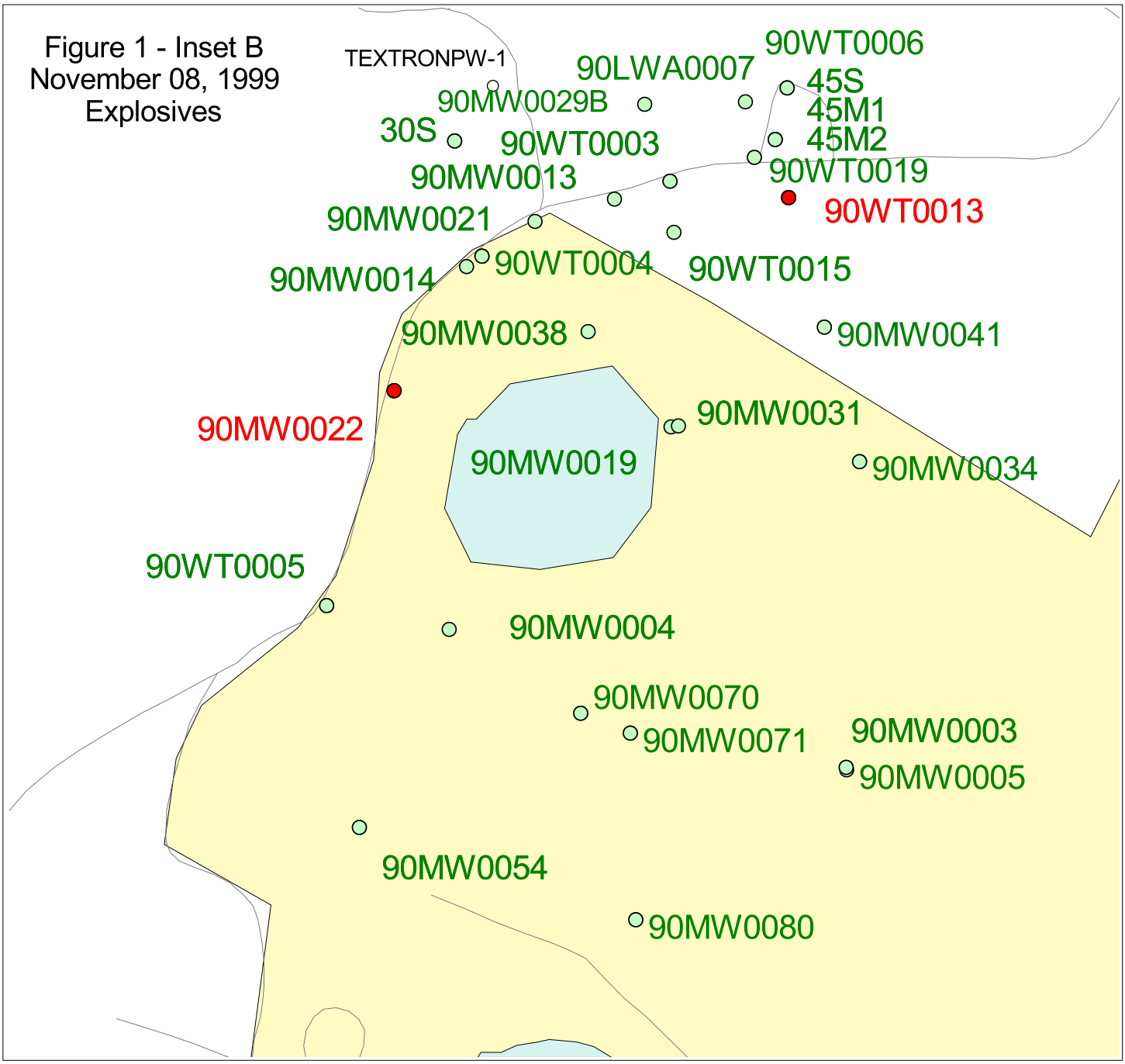
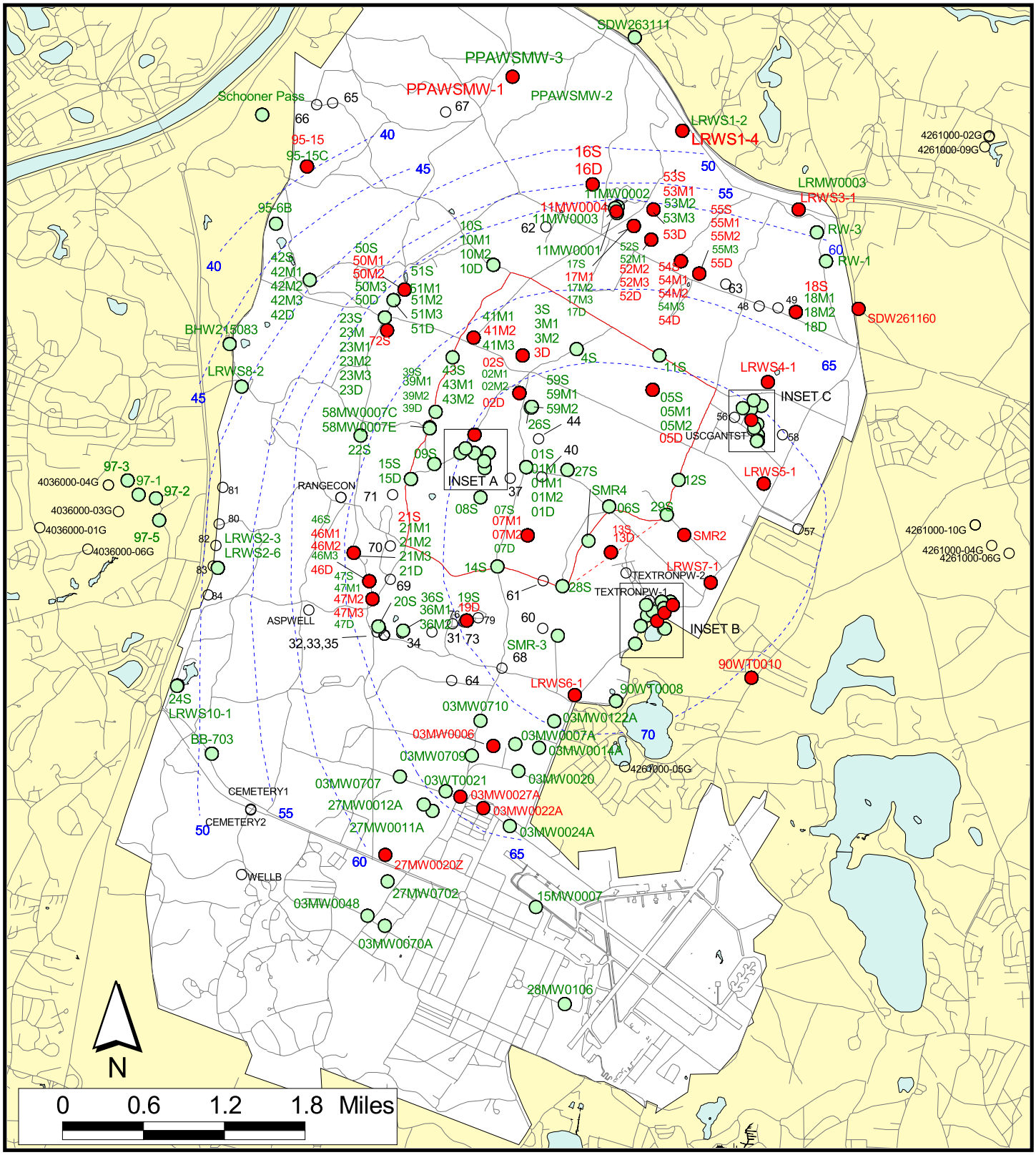


Figure 1 - Inset B
November 08, 1999
Explosives
TEXTRONPW-1
90WT0006
90LWA0007
45S
90MW0029B
45M1
30S
90WT0003
45M2
90MW0013
90WT0019
90MW0021
90WT0013
90MW0014
90WT0004
90WT0015
90MW0038
90MW0041
90MW0022
90MW0031
90MW0019
90MW0034
90WT0005
90MW0004
90MW0070
90MW0071
90MW0003
90MW0005
90MW0054
90MW0080



Sources & Notes

Map Coordinates: Stateplane, NAD83, Zone 4151, Meters
Source: MASSGIS

Legend

- Validated Data GTE MCL/HAs
- Validated Data LT MCL/HAs
- No Data Available

Figure 2
Metals in Groundwater Compared to MCL/HAs Validated Data As Of 10/17/99

Analyte Group 2

November 08, 1999 DRAFT

L:\MMR\GIS\November99\Monthly Maps\Metal MCL Detects - 1999 Data

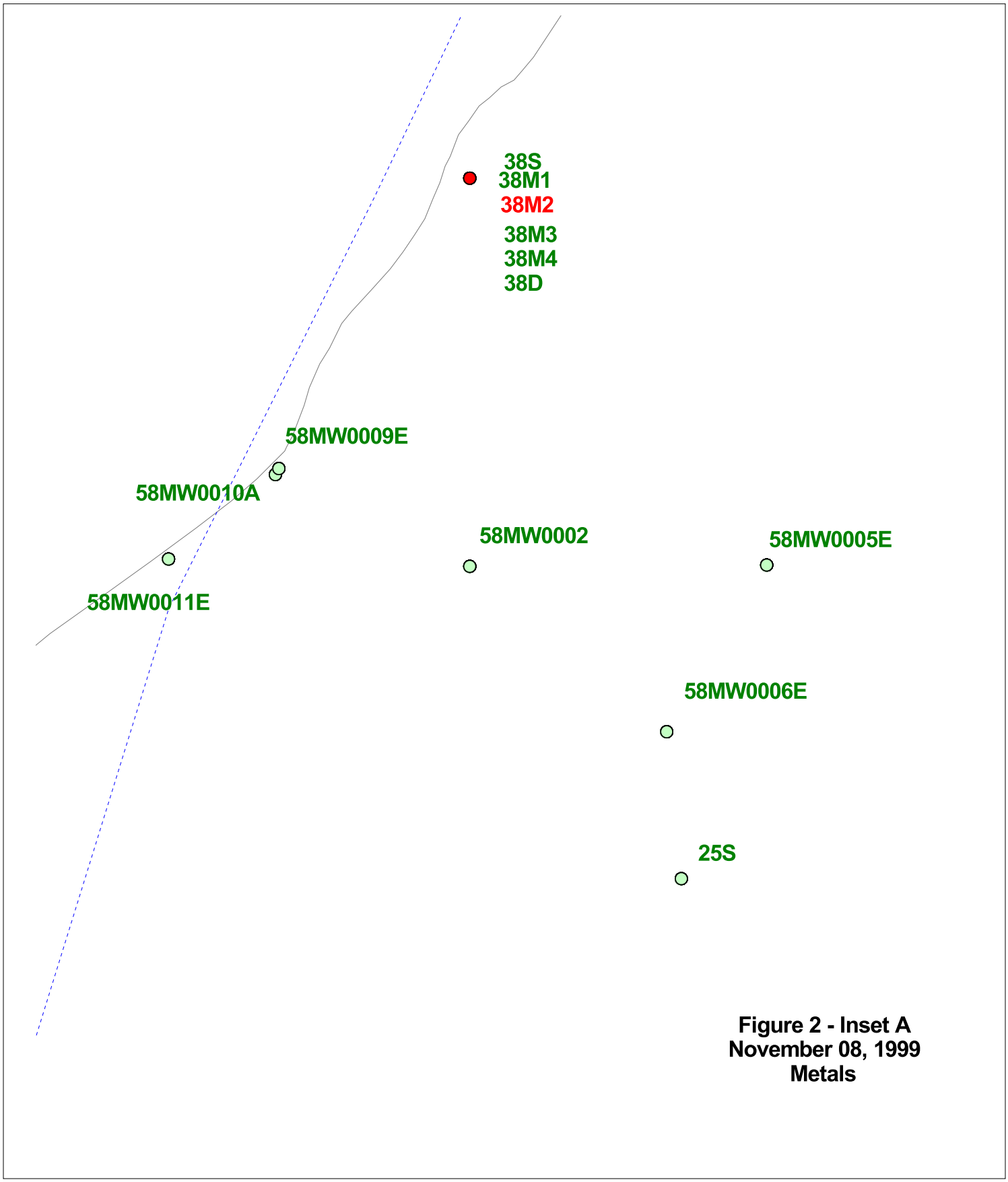


Figure 2 - Inset A
November 08, 1999
Metals

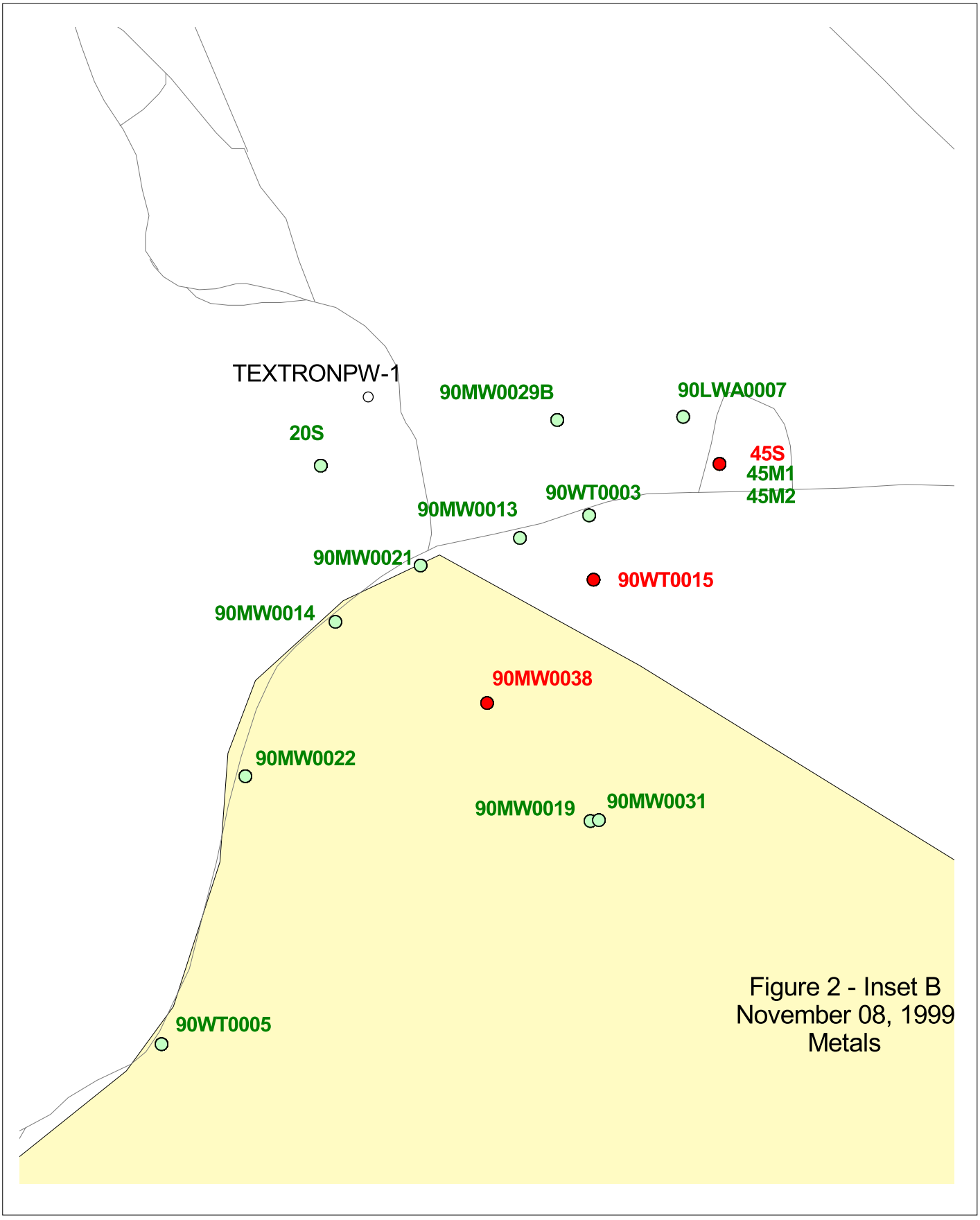


Figure 2 - Inset B
November 08, 1999
Metals

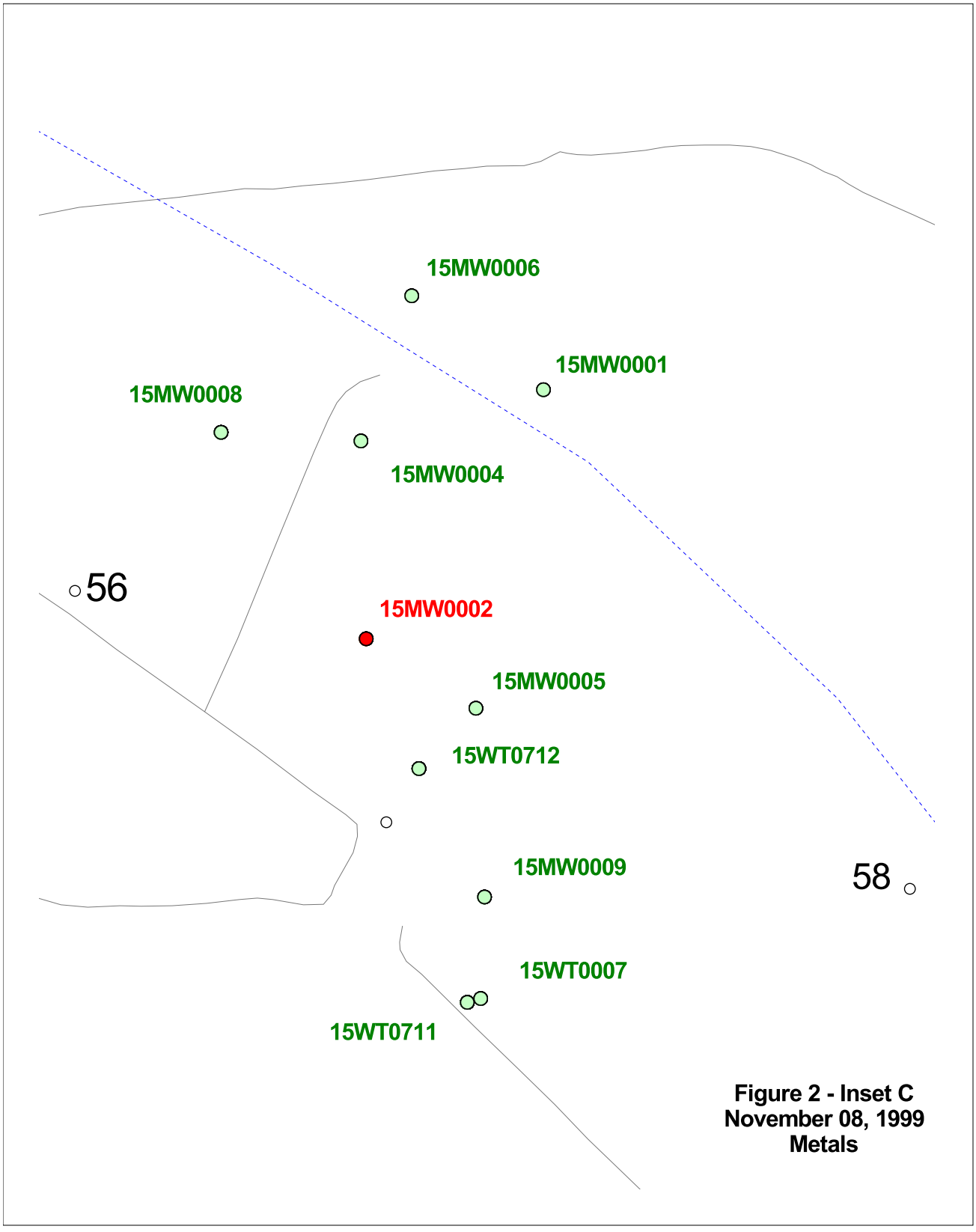
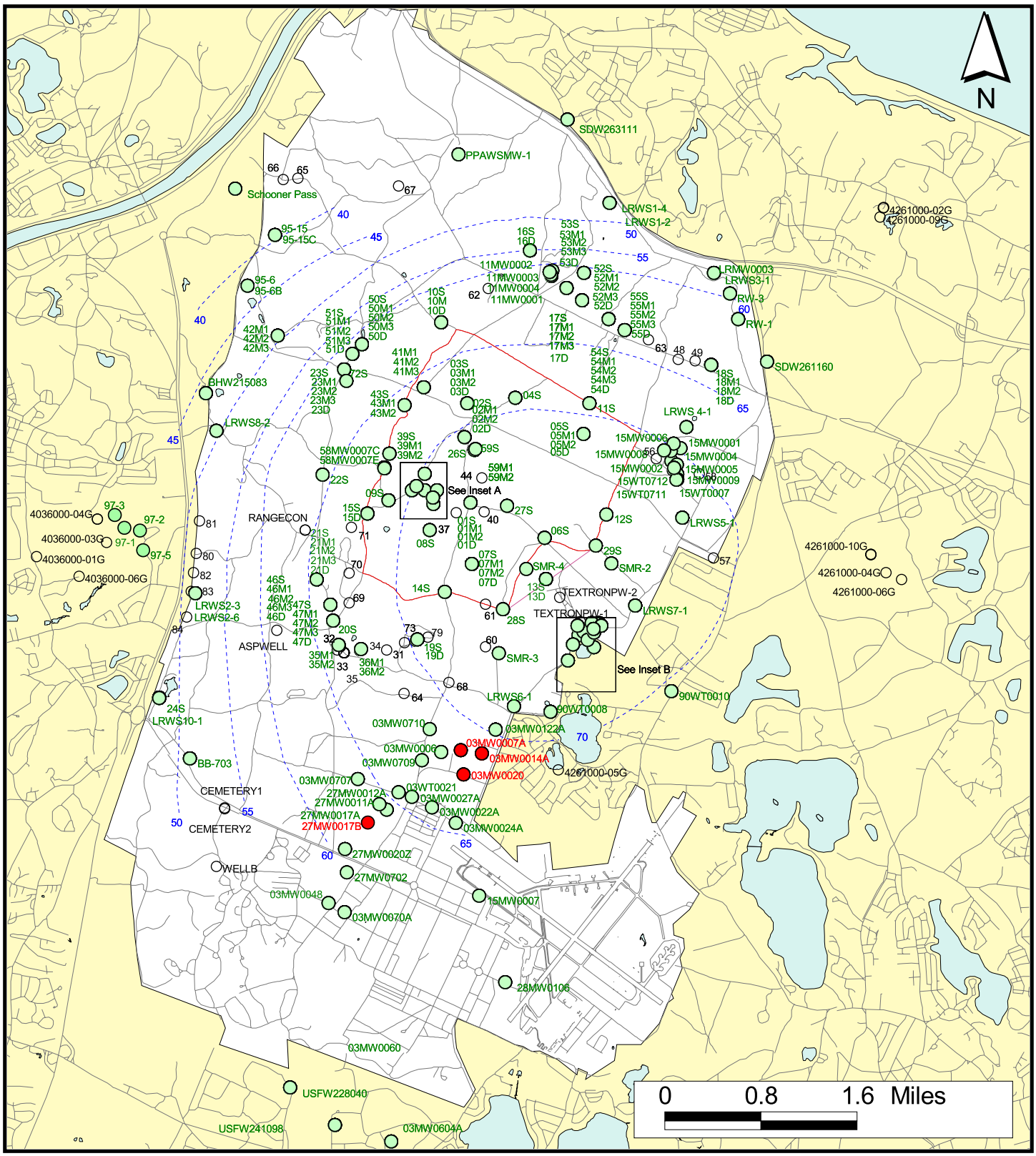


Figure 2 - Inset C
November 08, 1999
Metals



Sources & Notes

Map Coordinates: Stateplane, NAD83, Zone 4151, Meters
Source: MASSGIS

Legend

- Validated Data GTE MCL/HAs
- Validated Data LT MCL/HAs
- No Data Available

Figure 3
VOCs in Groundwater
Compared To MCL/HAs
Validated Data As Of 10/17/99

Analyte Group
3

November 8, 1999 DRAFT

L:\MMR\GIS\November99\Monthly Maps\VOC GTE MCL\HA

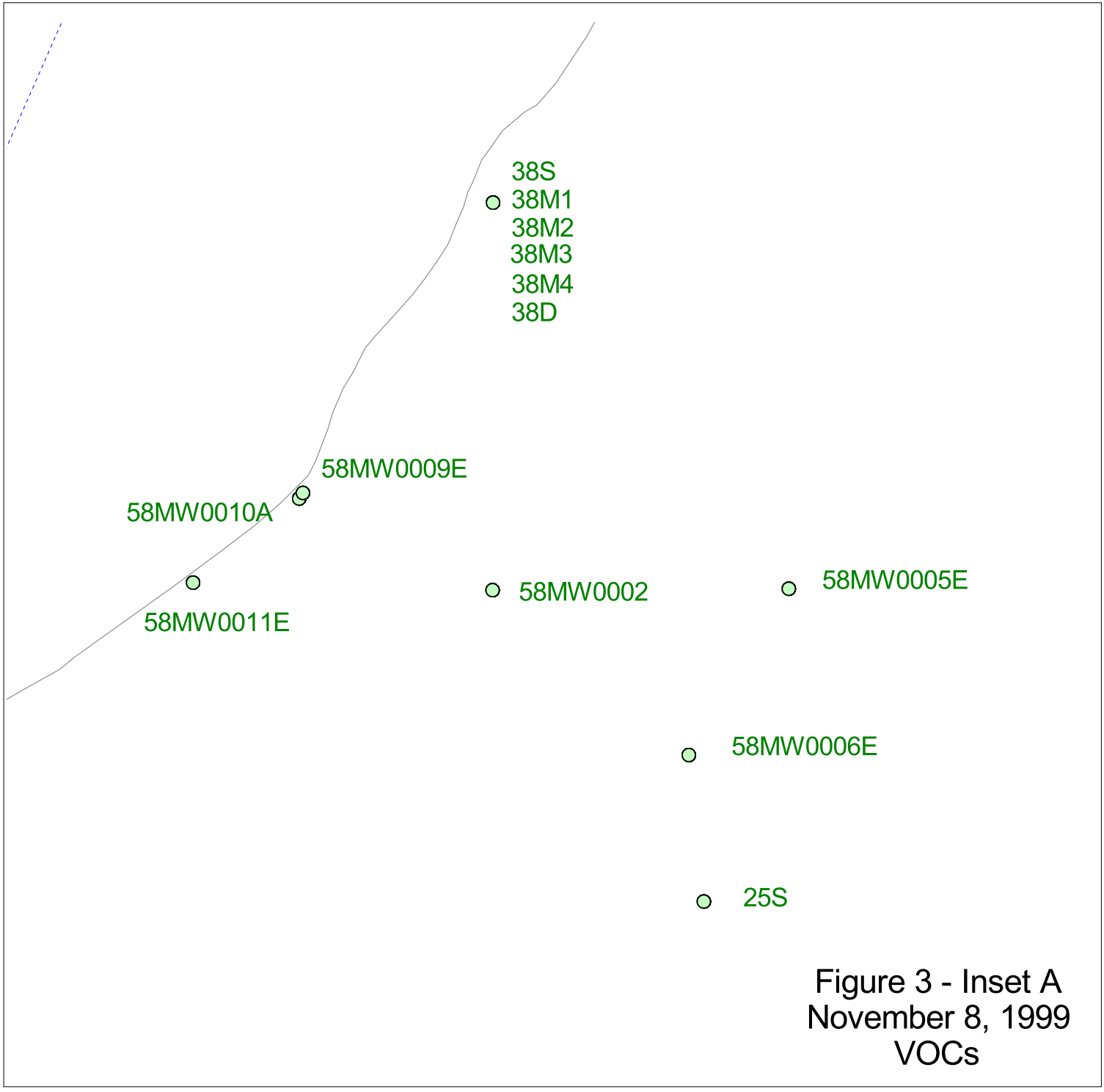


Figure 3 - Inset A
November 8, 1999
VOCs

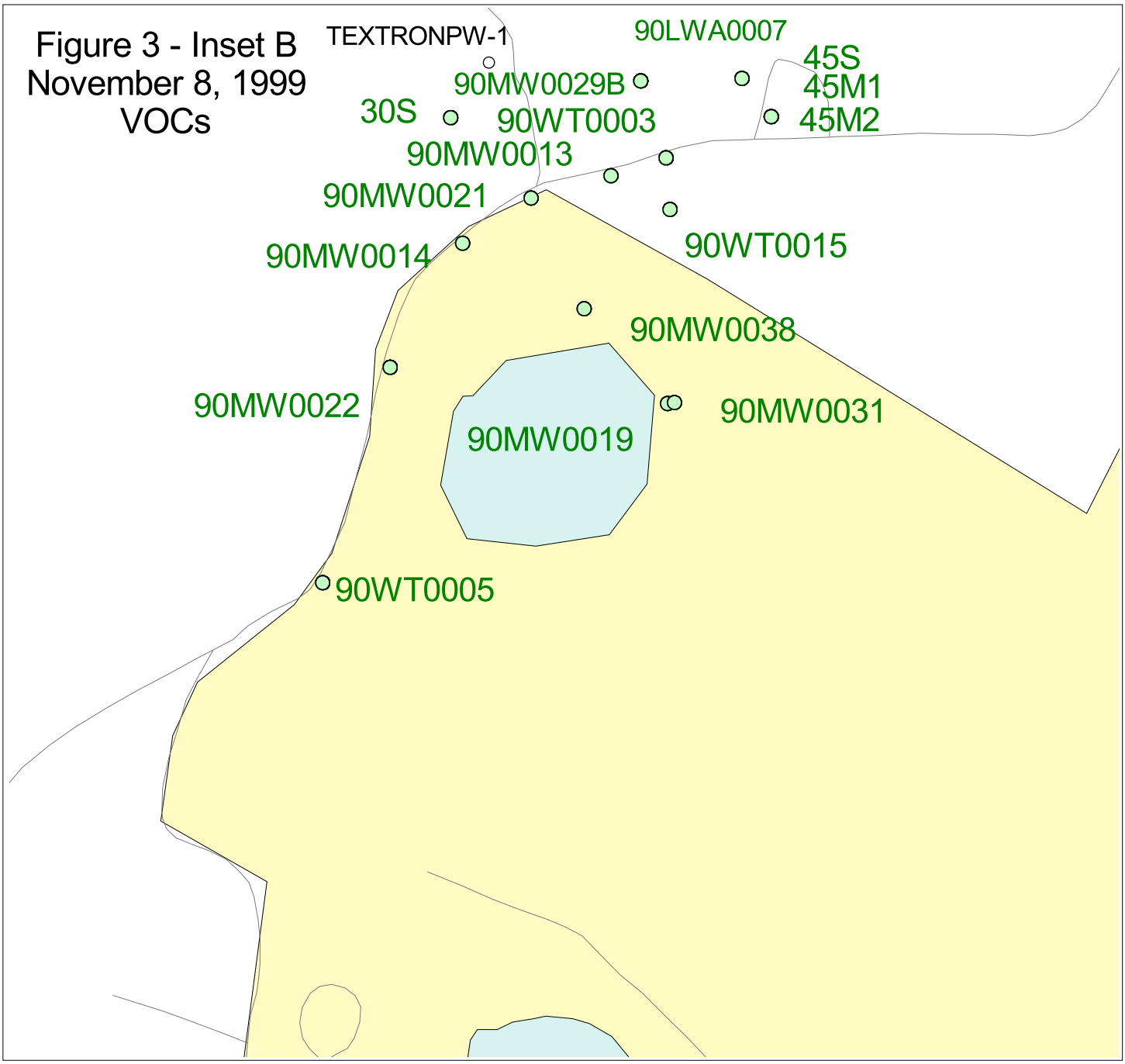
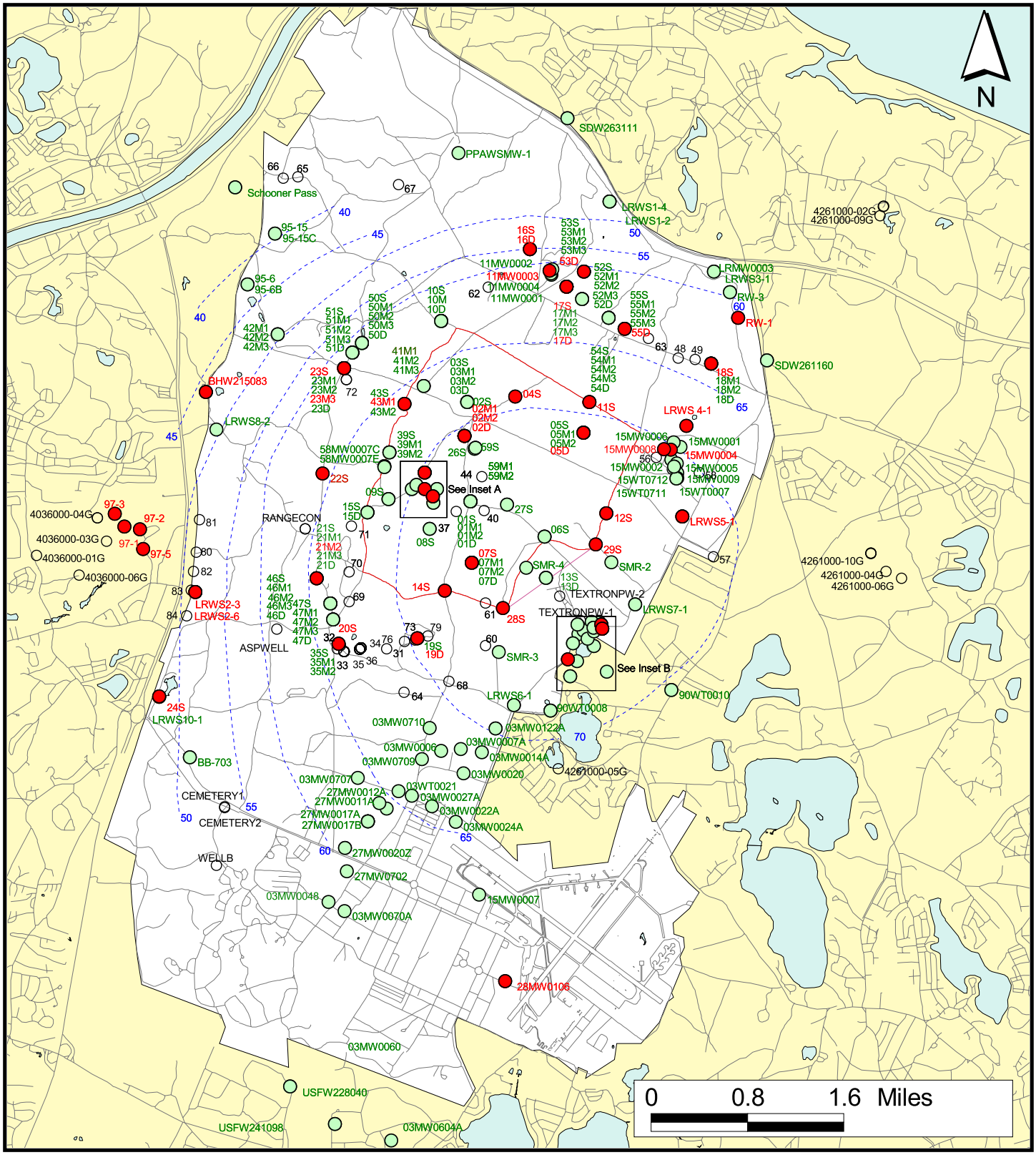


Figure 3 - Inset B
November 8, 1999
VOCs
TEXTRONPW-1
90LWA0007
45S
45M1
45M2
90MW0029B
30S
90WT0003
90MW0013
90MW0021
90MW0014
90WT0015
90MW0038
90MW0022
90MW0031
90MW0019
90WT0005



Sources & Notes

Map Coordinates: Stateplane, NAD83, Zone 4151, Meters
Source: MASSGIS

Legend

- Validated Data GTE MCL/HAs
- Validated Data LT MCL/HAs
- No Data Available

Figure 4
SVOCs in Groundwater
Compared To MCL/HAs
Validated Data As Of 10/17/99

Analyte Group
4

November 8, 1999 DRAFT

L:\MMR\GIS\November99\Monthly Maps\SVOC GTE MCL\HA

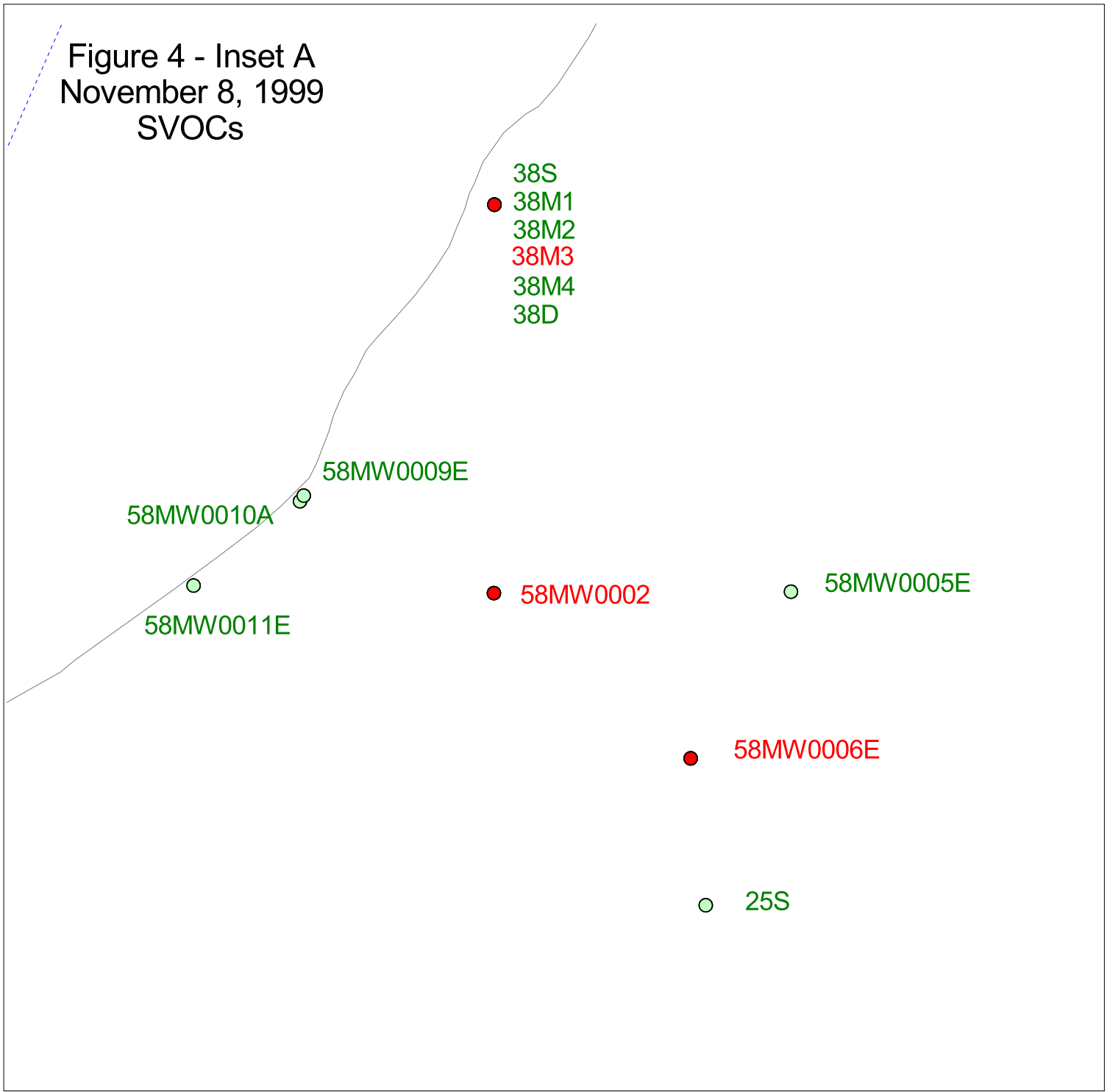


Figure 4 - Inset A
November 8, 1999
SVOCs
38S
38M1
38M2
38M3
38M4
38D
58MW0009E
58MW0010A
58MW0011E
58MW0002
58MW0005E
58MW0006E
25S

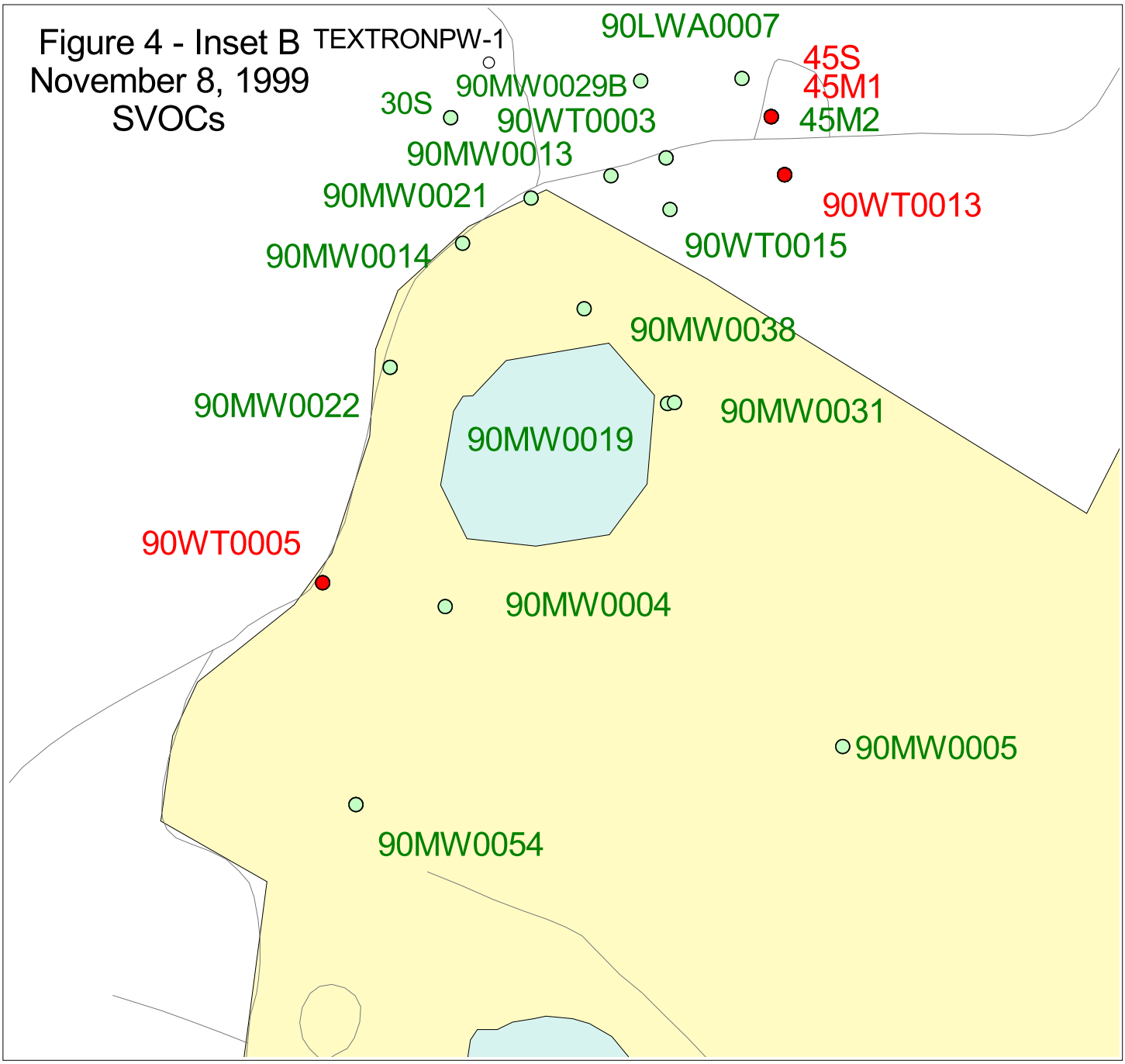
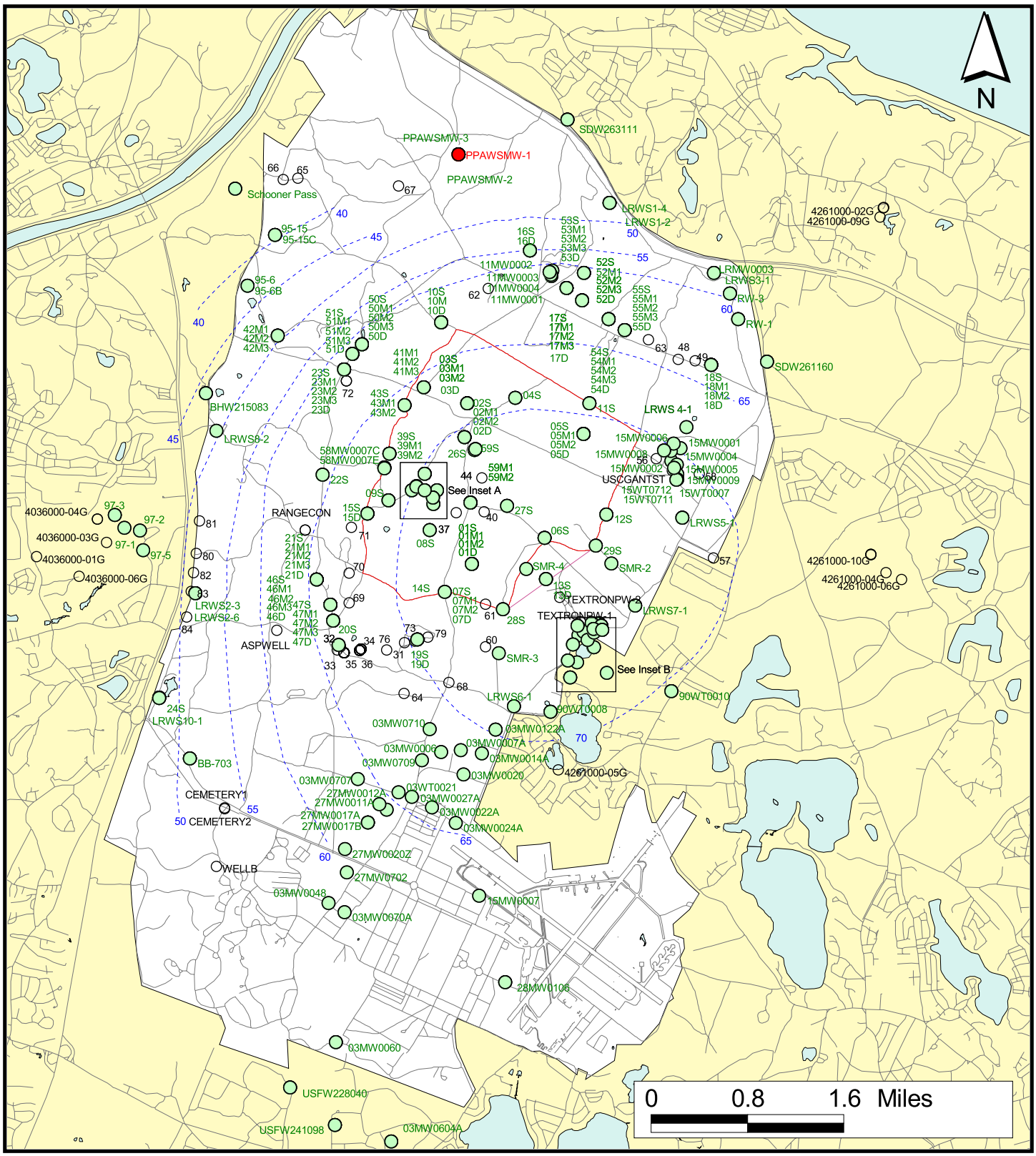


Figure 4 - Inset B
November 8, 1999
SVOCs
TEXTRONPW-1
90LWA0007
45S
45M1
45M2
90MW0029B
30S
90WT0003
90MW0013
90MW0021
90WT0013
90WT0015
90MW0014
90MW0038
90MW0022
90MW0031
90MW0019
90WT0005
90MW0004
90MW0005
90MW0054



Sources & Notes

Map Coordinates: Stateplane, NAD83, Zone 4151, Meters
Source: MASSGIS

Legend

- Validated Data GTE MCL/HAs
- Validated Data LT MCL/HAs
- No Data Available

Figure 5
Herbicides and Pesticides in Groundwater
Compared to MCL/HAs
Validated Data As Of10/17/99

Analyte Group
5

November 8, 1999 DRAFT

L:\MMR\GIS\November99\Monthly Maps\HerbPest GTE MCL\HA

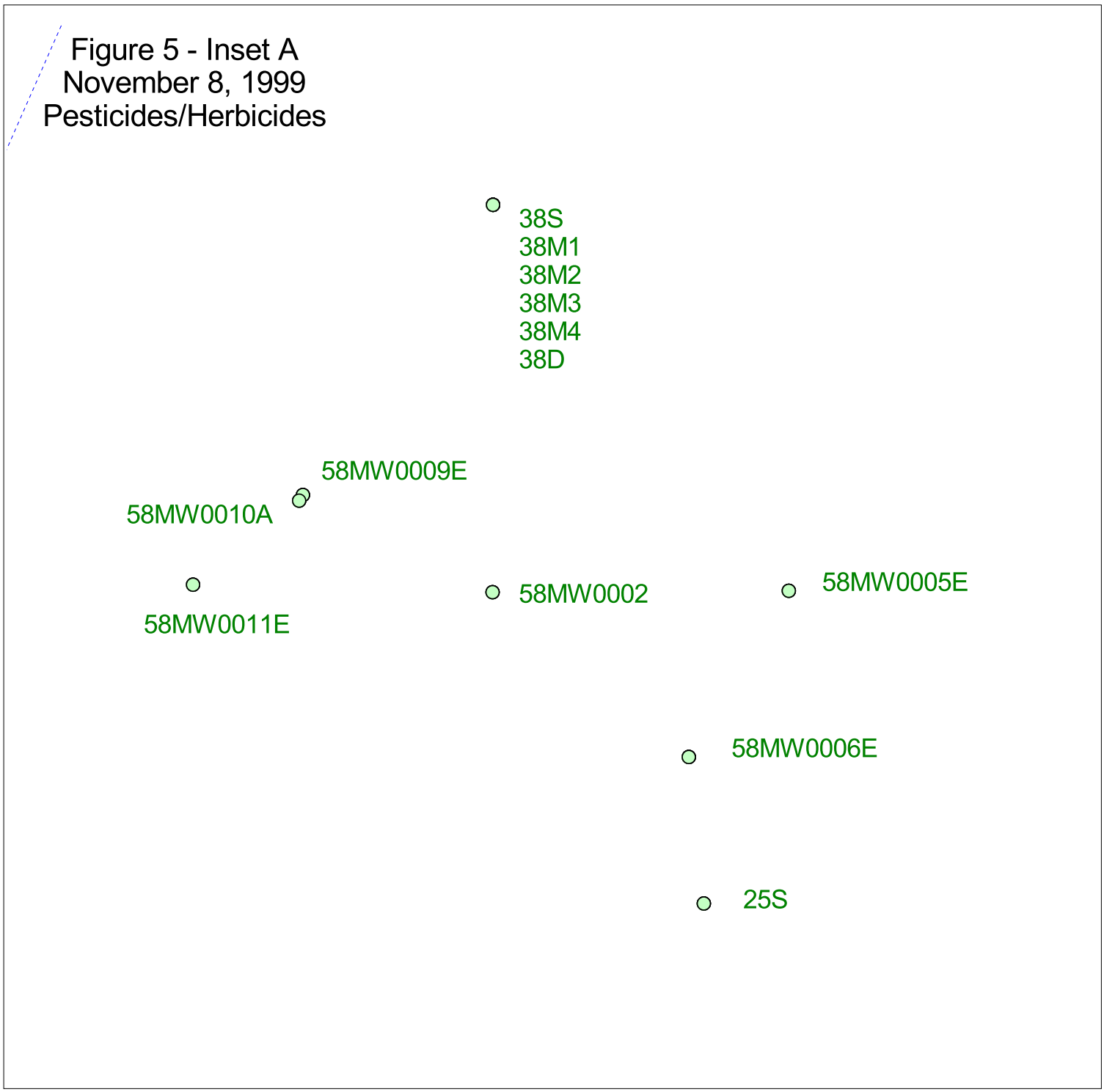


Figure 5 - Inset A
November 8, 1999
Pesticides/Herbicides
38S
38M1
38M2
38M3
38M4
38D
58MW0009E
58MW0010A
58MW0011E
58MW0002
58MW0005E
58MW0006E
25S

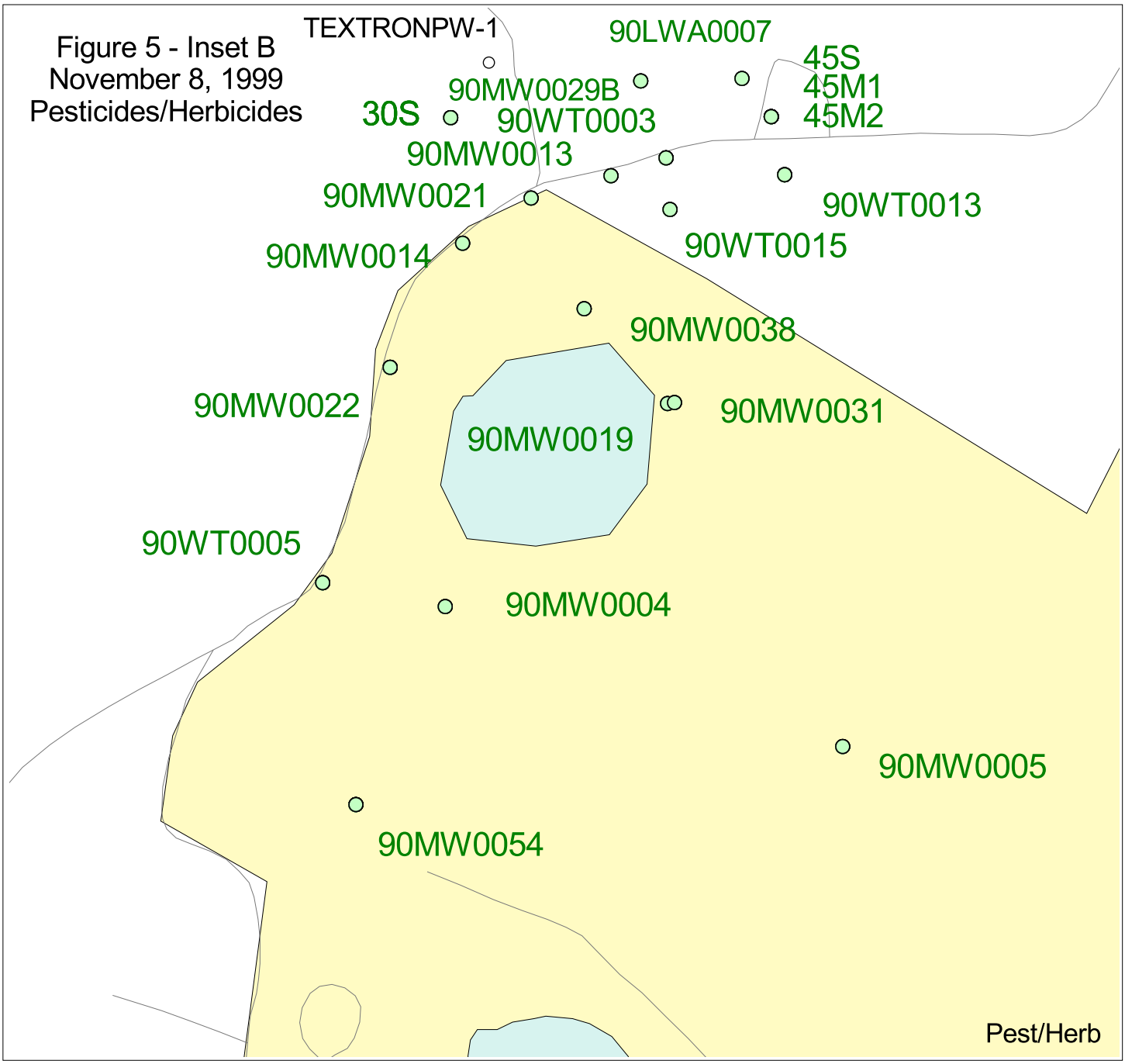
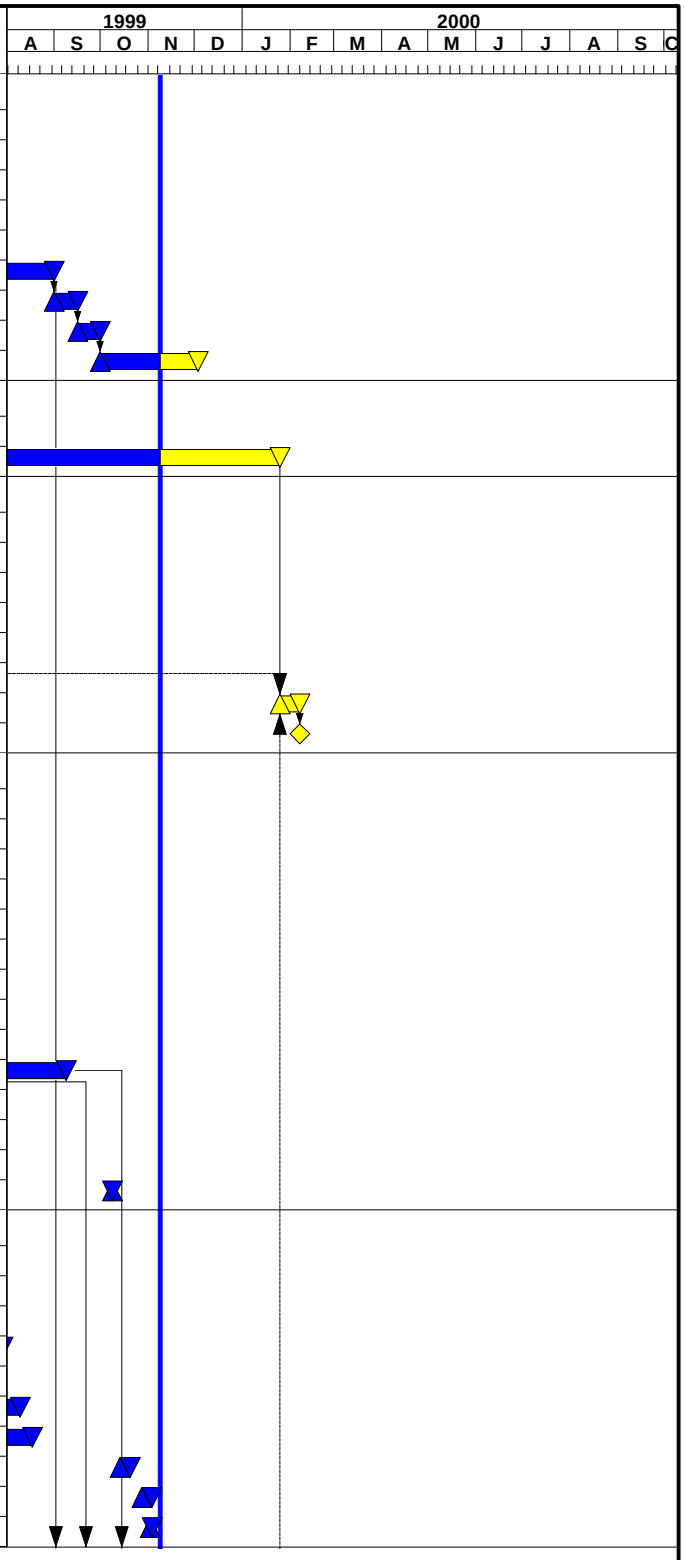


Figure 5 - Inset B
November 8, 1999
Pesticides/Herbicides
TEXTRONPW-1
90LWA0007
45S
45M1
45M2
90MW0029B
30S
90WT0003
90MW0013
90MW0021
90WT0013
90WT0015
90MW0014
90MW0038
90MW0022
90MW0031
90MW0019
90WT0005
90MW0004
90MW0005
90MW0054
Pest/Herb

Activity Description	Early Start	Early Finish
1. Receive Funding		
Appropriation of money for NGB budget	26OCT98A	
NGB Contracting ($4M)	26OCT98A	18DEC98A
Procure Supplemental Funding ($1.4M)	21DEC98A	10FEB99A
Procure Supplemental Funding ($1.0M)	11FEB99A	16APR99A
Procure Supplemental Funding ($1.6M)	16APR99A	02JUN99A
Procure Supplemental Funding ($2.1M)	02JUN99A	31AUG99A
Procure Supplemental Funding ($2.9M)	01SEP99A	16SEP99A
Procure Supplemental Funding ($1.0M)	17SEP99A	30SEP99A
Procure Supplemental Funding	01OCT99A	03DEC99
2. Evaluate Analytical Methods		
Complete Draft PEP Analytical Report	05NOV98A	30NOV98A
EPA Comments and Revisions	01DEC98A	24JAN00
3. Phase I Completion Workplan		
Prepare Phase I+ Workplan	13AUG98A	21AUG98A
Phase I+ Workplan due to EPA		21AUG98A
EPA Comments/Workplan Revisions	24AUG98A	06OCT98A
Submit Revised Workplan		06OCT98A
EPA Comments/Workplan Revisions	07OCT98A	29OCT98A
Submit Change Document		30OCT98A
Prepare Final Workplan	25JAN00	07FEB00
Submit Final Workplan		07FEB00
4. Phase I/II Installation of Wells		
Mobilization	21DEC98A	04JAN99A
USGS Modeling Well Screens	07JAN99A	01FEB99A
Prepare FSP for Far Field Wells	21DEC98A	12JAN99A
Review/Revise FSP for FF Wells	13JAN99A	12APR99A
Prepare FSP for Phase IIa Wells	21JAN99A	29JAN99A
Review/Revise FSP for Phase IIa Wells	01FEB99A	12APR99A
Install Group 1 FF Wells	06JAN99A	23MAR99A
Install Phase IIa Wells	01FEB99A	19APR99A
Mobilize for Group 2 FF Wells	02JUN99A	29JUN99A
Install Group 2 FF Wells	30JUN99A	08SEP99A
Synoptic water levels round 1	26JAN99A	26JAN99A
Synoptic water levels round 2	07APR99A	07APR99A
Synoptic water levels round 3	12JUL99A	12JUL99A
Synoptic water levels round 4	08OCT99A	08OCT99A
5. Phase I Sampling of Water Supply Wells		
Procure lab for SDWA parameters	21DEC98A	06JAN99A
Prepare QA/QC plan addendum	07JAN99A	02MAR99A
EPA review/comment	03MAR99A	10JUN99A
Sample (6a) MMR Wells DW/PEP	11JUN99A	27JUL99A
Setup split sampling for wells	08JAN99A	09JUL99A
Sample (6b) non-MMR wells PEP 1st Qtr	12JUL99A	09AUG99A
Sample (6c) MMR wells PEP 1st Qtr	12JUL99A	17AUG99A
Sample (6d) MMR wells DW/PEP 1st Yr	14OCT99A	19OCT99A
Sample (6c) MMR wells PEP 2nd Qtr	28OCT99A	03NOV99A
Sample (6b) non-MMR wells PEP 2nd Qtr	02NOV99A	03NOV99A



Project Start 14AUG98
Project Finish 17MAY01
Data Date 09NOV99
Run Date 10NOV99

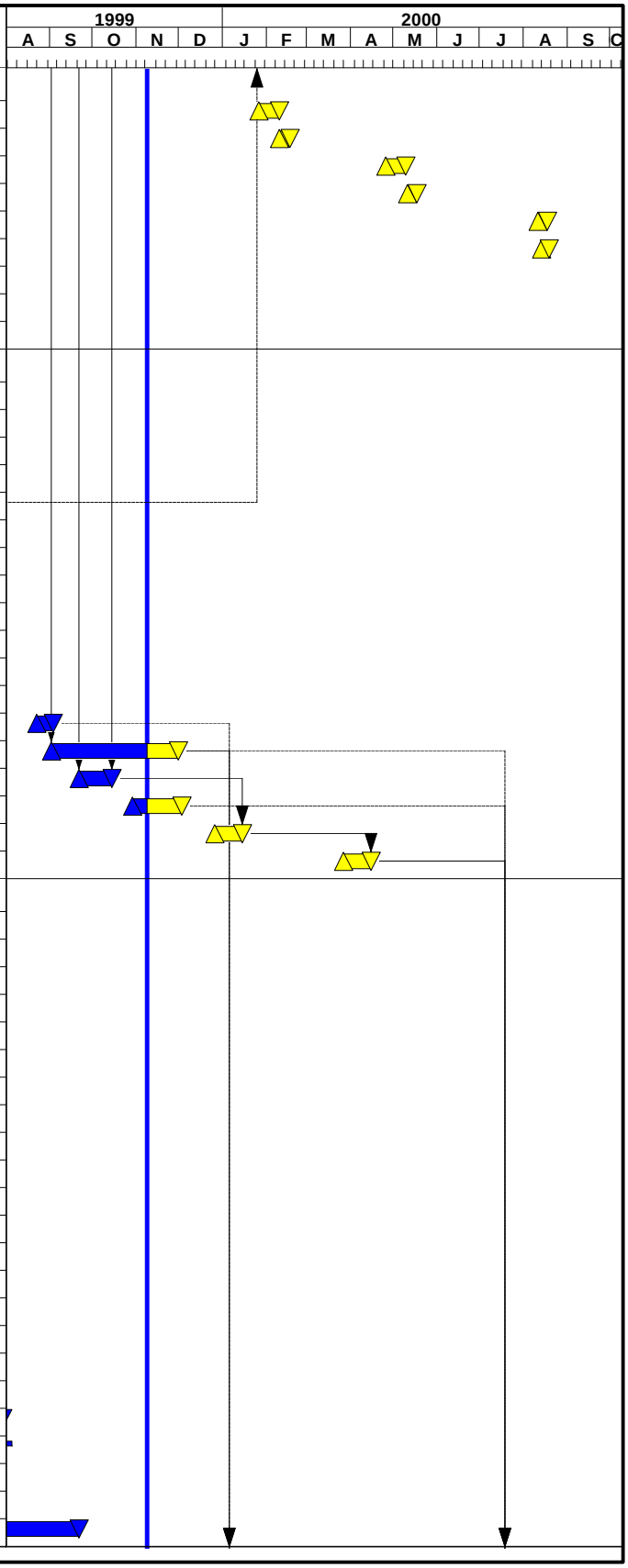
Early Bar
Progress Bar

M003

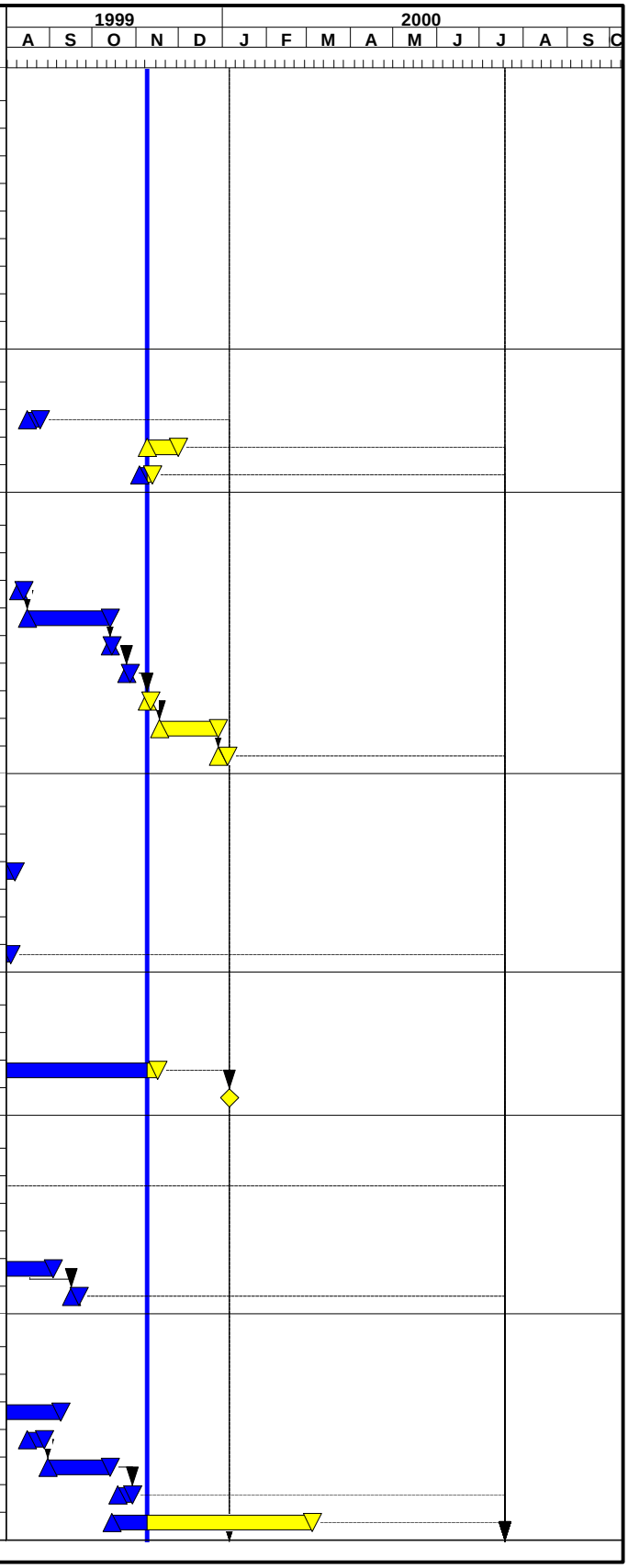
Sheet 1 of 4

Figure 6. Schedule for Completion of the Impact Area Groundwater Study as of 11/9/99

Activity Description	Early Start	Early Finish
5. Phase I Sampling of Water Supply Wells		
Sample (6b) non-MMR wells PEP 3rd Qtr	27JAN00	09FEB00*
Sample (6c) MMR wells PEP 3rd Qtr	10FEB00	17FEB00*
Sample (6b) non-MMR wells PEP 4th Qtr	26APR00	09MAY00*
Sample (6c) MMR wells PEP 4th Qtr	11MAY00	17MAY00*
Sample (6c) MMR wells PEP 5th Qtr	11AUG00	17AUG00*
Sample (6d) MMR wells DW/PEP 2nd Yr	14AUG00	18AUG00*
Sample (6c) MMR wells PEP 6th Qtr	13NOV00	17NOV00*
Sample (6c) MMR wells PEP 7th Qtr	12FEB01	16FEB01*
Sample (6c) MMR wells PEP 8th Qtr	11MAY01	17MAY01*
6. Phase I Sampling of Monitoring Wells		
Review Selection of IRP wells	05NOV98A	30NOV98A
Submit IRP well selection/rationale	30NOV98A	
EPA comments on IRP Wells	01DEC98A	19JAN99A
Change document for IRP Wells	20JAN99A	29JAN99A
EPA cond. approve IRP well changes	01FEB99A	18FEB99A
USGS model selected IRP wells	01FEB99A	11FEB99A
Changes to address MADEP comments	19FEB99A	09MAR99A
Prepare FSP for Supplemental IRP Wells	10MAR99A	22APR99A
Mobilization for Phase I Wells	21DEC98A	05JAN99A
Sample/Analyze Supplemental IRP Wells	08APR99A	22JUL99A
Sample/Analyze Phase I Wells Round 2	06JAN99A	14JUN99A
Sample/Analyze G1 FF Wells Round 1	17FEB99A	27MAY99A
Sample/Analyze G1 FF Wells Round 2	23AUG99A	02SEP99A
Sample/Analyze Phase I Wells Round 3	02SEP99A	30NOV99
Sample/Analyze G2 FF Wells Round 1	21SEP99A	14OCT99A
Sample/Analyze G1 FF Wells Round 3	29OCT99A	02DEC99
Sample/Analyze G2 FF Wells Round 2	27DEC99	14JAN00
Sample/Analyze G2 FF Wells Round 3	27MAR00	14APR00
7. Phase I Response Actions for Demo Area 1		
Roadbuilding for MW34	28DEC98A	04JAN99A
Install/Profile MW34	06JAN99A	18JAN99A
Roadbuilding for MW35	18JAN99A	18JAN99A
Install/Profile MW35	19JAN99A	29JAN99A
Develop/Sample/Analyze MW34	11FEB99A	19FEB99A
Develop/Sample/Analyze MW35	11FEB99A	22FEB99A
Install/Profile/Develop MW36	09MAR99A	20APR99A
Sample/Analyze MW36	05MAY99A	14MAY99A
Evaluate Groundwater Data	07MAY99A	17MAY99A
Submit GW Data/Response Plan to EPA		17MAY99A
Review/Revise Response Plan	18MAY99A	15JUL99A
UXO Clearance Demo 1	28DEC98A	13JAN99A
Standby for Demo 1 to dry up	14JAN99A	07APR99A
Mobilize ATV drill rig	08APR99A	03MAY99A
Demo 1 Soil Sampling to 15 ft	03MAY99A	07MAY99A
Soil Sample Analysis/Evaluation	04MAY99A	27MAY99A
Mobilize ATV drill rig	28MAY99A	04JUN99A
Demo 1 Soil Sampling to 40 ft	07JUN99A	09JUN99A
Soil Sample Analysis/Evaluation	08JUN99A	27JUL99A
Submit Soil Data to EPA		27JUL99A
Evaluate Pilot Testing & Remedies	21DEC98A	18MAY99A
Submit draft remedy evaluation to EPA		18MAY99A
EPA review/approve Response Plan	16JUL99A	20SEP99A



Activity Description	Early Start	Early Finish
8. Phase II (a) Workplan		
Prepare Phase II(a) Workplan	24AUG98A	11SEP98A
Submit Phase II(a) Workplan to EPA		11SEP98A
EPA Review Phase II(a) Workplan	14SEP98A	28OCT98A
Meeting to discuss Phase II(a)	04NOV98A	04NOV98A
Revise Phase II(a) workplan	05NOV98A	12NOV98A
EPA review/comment	13NOV98A	22DEC98A
Prepare change document	28DEC98A	08FEB99A
EPA approve change document	09FEB99A	05APR99A
Final Phase II(a) Workplan	06APR99A	22JUL99A
9. Phase II Investigate Exceedances		
Sample/Analyze Ph. II(a) Wells Round 1	30MAR99A	26MAY99A
Sample/Analyze Ph. II(a) Wells Round 2	16AUG99A	24AUG99A
Sample/Analyze Ph. II(a) Wells Round 3	09NOV99	30NOV99*
Soil Sampling/Analysis for Source Areas	04NOV99A	12NOV99
10. Phase II Characterize J Ranges		
Sampling/Analysis for J-3 Wetland	15APR99A	20APR99A
Review J-3 Wetland Results with EPA	13MAY99A	01JUL99A
Mobilization for Steel Pit	10AUG99A	13AUG99A
UXO Clearance for steel pit	16AUG99A	13OCT99A
Soil sampling/analysis for Steel Pit	14OCT99A	14OCT99A
Monitoring well installation for Steel Pit	26OCT99A	27OCT99A
Develop Well	09NOV99	10NOV99
Sample/Analyze monitoring well	18NOV99	28DEC99
Review Steel Pit Results with EPA	29DEC99	04JAN00
11. Phase II Survey for Munitions Disposal		
Technology Meeting	09DEC98A	09DEC98A
Prepare Survey Work Plan	10DEC98A	01FEB99A
Review/Revise Workplan	02FEB99A	06AUG99A
Excavation/Sampling of Brick-lined Pits	19FEB99A	22FEB99A
Analysis of Brick-lined Pit Samples	23FEB99A	01JUL99A
Prepare Tech Memo for Brick-lined Pit	02JUL99A	04AUG99A
12. Phase II Characterize Training Areas		
Completion of Archives Search Report		31MAR99A
Phase II (a) Workplan for Training Areas	01APR99A	22JUL99A
EPA Review/Approve Workplan	23JUL99A	15NOV99
Begin Training Area Investigations	06JAN00*	
13. Phase II Characterize KD and U Ranges		
MIDAS search for analytes	27APR99A	06MAY99A
Soil Sampling/Analysis for KD and U	10MAY99A	17MAY99A
UXO Clearance for Monitoring Wells	28JUN99A	02JUL99A
Roadbuilding	06JUL99A	09JUL99A
Monitoring Well installations at KD and U	20JUL99A	02SEP99A
Sample/Analyze monitoring wells	17SEP99A	20SEP99A
14. Phase II Characterize Gun/Mortar Positions		
Completion of Archives Search Report		31MAR99A
Develop Field Sampling Plan	01APR99A	02JUL99A
Agencies Review FSP	06JUL99A	08SEP99A
Mobilize drilling equipment	16AUG99A	27AUG99A
Install Monitoring Wells at Gun/Mortar	30AUG99A	13OCT99A
Sample/Analyze monitoring wells	19OCT99A	28OCT99A
Soil Sampling/Analysis at Gun/Mortar	15OCT99A	03MAR00



Activity Description	Early Start	Early Finish
15. Phase II Characterize Trnch, Excvtn, Bnkr		
Completion of Archives Search Report		31MAR99A
Assessment of site features	16AUG99A	27AUG99A
Review data with EPA	19AUG99A	26AUG99A
Phase II (a) Workplan for Trenches, etc.	30AUG99A	04OCT99A
EPA Review/Approve Workplan	05OCT99A	22NOV99
Begin Trenches Investigations	06DEC99*	
16. Phase II Sampling Groundwater at SAR		
Install Monitoring Wells at SAR	09MAR99A	23APR99A
Sample/Analyze Monitoring Wells	27MAY99A	05AUG99A
17. Phase II Characterize Mortar Targets		
Reconnaissance of Targets	16AUG99A	27AUG99A
Discuss sampling plan with EPA	19AUG99A	26AUG99A
Prepare draft FSP	30AUG99A	04OCT99A
EPA review/comment on FSP	05OCT99A	22NOV99
Prepare final FSP	23NOV99	03DEC99
Begin Mortar Targets Investigations	06DEC99*	
18. Reports and Meetings		
Progress Reports	10SEP98A	10OCT00
Phase II Interim Results Report	01SEP99A	01NOV99A
Draft Interim Longterm Monitoring Report	06JAN00	02MAR00
Review Draft ILM Report	03MAR00	30MAR00
Final ILM Report	31MAR00	27APR00
Draft Phase II Compl. Work Report	08MAY00	18JUL00
Review Draft Phase II CWR	19JUL00	15AUG00
Final Phase II CWR	16AUG00	13SEP00