MONTHLY PROGRESS REPORT #40
FOR JULY 2000

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 July 1 to July 31, 2000. Scheduled actions are for the six-week period ending August 11, 2000.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress for the month of July is summarized in Table 1.

Table 1. Drilling progress for July 2000

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-108	Impact Area Response Well (P-22)	370	203	282-292 297-307
MW-108b	Impact Area Response Well (P-22)	330	163	240-250 262-272 317-327
MW-110	Impact Area Response Well (P-27)	350	174	220.5-230.5 248.5-258.5 315.5-325.5
MW-111	Impact Area Response Well (P-26)	240	103	165-175 182-192 224-234
MW-112	Impact Area Response Well (P-24)	92		
MW-113	Impact Area Response Well (P-25)	92		

bgs = below ground surface
bwt = below water table

Monitoring wells were completed at MW-108 (Impact Area response well P-22), MW-108b, MW-110 (Impact Area response well P-27), and MW-111 (Impact Area response well P-26). Drilling commenced on MW-112 (Impact Area response well P-24) and MW-113 (Impact Area response well P-25). Well development continued for newly installed wells. UXO clearance commenced on the J-2 Range drill pads and access roads. UXO located on the J-2 Range that could not be relocated to the Controlled Detonation Chamber were detonated on 7/13/00, 7/24/00, 7/25/00, and 7/27/00.

Samples collected during the reporting period are summarized in Table 2. Air samples were collected during the firing of M-16s at the C Range. Soil samples were collected from the craters of the UXO detonated at the J-2 Range on 7/13/00, 7/24/00, 7/25/00, and 7/27/00. Soil samples were collected from under the pyrotechnic material and the 30 mm projectile located on the J-2 Range. Soil samples were collected from the grids surrounding the UXO detonation craters on Turpentine Road and CS-19. Wipe samples were collected from the buildings in the J-2 Range. Groundwater sampling was completed for the third round of Group 2 New Far Field wells, and started for the August round of CY2000 sampling. Groundwater profile samples were collected from MW-108 (P-22), MW-110 (P-27), and MW-111 (P-26). Shallow soil samples (0'-0.5' and 1.5'-2') were collected from MW-108, MW-109, MW-110, P-23, and P-26. Deep soil samples were collected during drilling at the borings for MW-111, MW-112, and MW-

113. Soil samples were collected from delineation grids on the KD Range (Area 44) as part of the RRA. A sample was collected from the white material located at GP-11 (Area 61).

The Guard, EPA, and MADEP had a meeting on July 6 to discuss technical issues, including the following:

- There was no update of the CS-19 investigation. Ogden mentioned they are trying to resolve the position of the CS-19 RDX plume with IRP so that it can be added to the IAGS maps. There is a question on some of the well positions depicted in Figure 5-19 of the draft RI.
- The Guard presented an update of the Water Supply Investigation. The Site 2 pump test will be performed this week. The NEPA assessment will be submitted on Friday and the MEPA form will be submitted soon. The site 1, 2, and 3 pipeline will be constructed in early September. Sites 4 and 5 are no longer under consideration and will be considered contingency wells.
- Tetra Tech provided an update of the munitions survey investigation. The aerial magnetometer survey continues and should be completed this week or early next week. The revised HUTA Workplan is currently being prepared. The MMR Natural Resource Manager had additional comments for the Record of Environmental Consideration for Tank Alley Road, Turpentine Road, HUTA, and Holding/Processing area. The Guard will get the revised REC for review this week. The J-2 Range UXO clearance continues. Ogden will commence work in J-2 Range next week. Brush clearing will commence by July 14. The J1/J3 Range surveyor will start next week and still awaiting EPA guidance on the areas of interest. DEP asked the status of the final map for the J-2 Range. Tetra Tech indicated that they would have to make a map because the surveyor will not be able to get back into the area. The water bodies presentation will be given after the Tech Meeting on July 20. EPA indicated that they were expecting a validation proposal for Demo 1 geophysics results by the 7/13 tech meeting.
- Ogden provided an update of the Rapid Response Action. DEP comments on the plan have not been received yet. FEC and Public Comment Responses are still in internal review. The meeting with the Sandwich Conservation Commission had two requirements which were that the excavated soil was not dumped somewhere else and that no backfill be used in the excavation. Additional delineation samples were collected from the KD Range, APC, and the J-3 wetland. The treatability study continues and is waiting for the full set of data from the laboratory. The surveyor is scheduled to commence work on the containment pad next week. The Guard asked when the rock pile would need to be removed. Ogden indicated that the area would need to be cleared by early August. The Guard suggested that Ogden plan to remove the rocks. Ogden requested that the Guard find a place to relocate the rocks. The Guard indicated that the containment pad might have to hold some soil from the HUTA. Ogden suggested that the plan would include the possibility of pad expansion. Tetra Tech will come up with a worst case volume of soil by the third week in July.
- Ogden provided an update of the Groundwater Investigation. A map of the Impact Area response well locations was distributed. Drilling continues on MW-110 (P-27), which should finish this week. MW-108 (P-22) is on standby waiting for screen depths. The draft boring log for MW-108 was distributed and the data for MW-108 will be ready for a 4:30 conference call. The next locations for drilling have changed to the Demo 1 well and the J-Range wells due to the shutdown of the impact area for two weeks in July. Continue with the groundwater sampling of the Group II new far field wells. The wipe sample collection commenced in the J-2 Range. TRC indicated that they had some comments on the wipe sample methodology. EPA indicated that they would forward TRC's comments to Ogden. UXO clearance of the J-2 Range will start next week. The explosive results from the Popper Kettle ash sample were distributed. EPA asked if there are other analyses for this ash sample and asked to check on the status of the three soil samples collected from under the kettle.

- EPA asked the status of the PIP comments meeting. The Guard indicated that the DEP is not available for a meeting by the due date 7/17. DEP will check to see if the DEP representative attending this meeting can rearrange their schedule so that they can attend a meeting on 7/13 am.
- The August 1999 BIP Report response to comments was discussed. A copy of the Ogden UXO Discovery Form was distributed. EPA asked that the Guard insure that all the items in the HUTA checklist are included on the UXO Discovery Form. EPA requested that the UXO summary table be distributed next week and then updated periodically.
- EPA requested that the ILTGM Plan Supplement discussion be changed to a conference call on Monday.
- A 1-page handout of the Demo 1 Plume with a 100-ppb contour added was distributed for comment. EPA suggested changing the color of the shading of the 100-ppb contour. DEP noted that the contour could be drawn differently (i.e., several "bubbles") if the earlier results were considered.
- The Guard distributed the Textron letter on the proposed Phase II investigation for the J-1/J-3 Ranges.
- The comment resolution for the J-1/J-3 Range Workplan were discussed. The following EPA comments were discussed.
  Comment #6 – add "contingency for well at" to the last sentence.
  Comment #25 – EPA will copy pages from their logbook.
  Comment #32 – EPA requested more detail on sampling for the vents. EPA asked how many post excavation samples would be collected after the drum removal. Ogden indicated that four samples would be collected.
  Comment #47 & #54 – EPA indicated that they need to more research on the radioactive analysis.
  Comment #49 – EPA indicated that the septic tank is the Dry Well #2.
  Comment #53 – EPA listed the following areas need monitoring wells:
  Loading and Assembly Building
  The Disposal Area at the 150m berm.
  1000m berm concrete bunker
  Range Road
  EOD disposal area on J-1 Range by 2000m berm
  J-3 Disposal pit
  J-3 Burn Kettle
  J-3 Wastewater disposal area
  Reverse track from DP-8 and DP-9
  South of wetland at DP-8 and DP-9. The Guard suggested that this well be 100' from wetland and drilled after September.
  The leach field of the X-ray building
  The dry well for the work shop
  Target area of the 20mm Range
  The firing point of the warhead test fire range
  Two wells at the L Range
  Six Wells at 1000-foot centers around the ranges
  1000m berm wastewater disposal area
  J-3 Popper Kettle
  The Guard's proposal for initial installation of water table wells at J3P5, J1P3, J1P1, LP1, and J1P2 was discussed. The P-28 and P-29 locations would be profiled and have three wells based upon the profile results. Ogden will produce a map with the initial round of well installation and a second map with the other well locations. Ogden will refine the response on well location and depth.
- The J-3 Range maps from Textron were made available for agency review. Copies will be prepared for the agencies.
- The Delineation of Central Impact Area contaminants was discussed. Handouts of the plan view of the forward and reverse tracks and cross sections were distributed. USGS indicated that it is possible

to produce multiple tracks on the same section but noted that there would be some slight error due to distortions. The use of 3D software was also discussed; Ogden will review for next week to evaluate how this may aid in data visualization. EPA requested a plan view map with a gray area outlining the region of the impact area having contaminated wells for next week. EPA also indicated the need to show ZOCs on the plan and section views.

- The Guard distributed a handout of the breakdown products of three chemical agents.
- Following the technical meeting there was a field reconnaissance of the Former E Range and Former small Arms Ranges.

The Guard, EPA, and MADEP had a meeting on July 13 to discuss technical issues, including the following:

- The Guard provided an update of the water supply investigation. The pump test for Site 2 has been completed. Currently working on the final design for the pipeline. The Environmental Assessment (EA) has been submitted for public comment. The Guard will ask JPO if the agencies had comments to the EA. EPA asked the Guard to produce several copies of the EA. The groundbreaking ceremony for the pipeline is scheduled for the last week in August.
- Tetra Tech provided an update of the Munitions Survey investigation. The aerial survey of the impact area is completed. Currently processing the data and it looks good so far. The response to EPA comments on the HUTA workplan will be submitted today and the response to DEP comments will be submitted by July 19. The Record of Environmental Consideration for the HUTA work was reviewed and signed by the NGB Representative & MAARNG Natural Resources Manager, but final approval of REC is being withheld by MAARNG State Environmental Supervisor pending evaluation/coordination with NGB concerning cumulative impacts of AO activities on local environment. The vegetation clearance for the HUTA and the screening area is scheduled to start today. The Guard asked when the digging is scheduled to start. Tetra Tech indicated that the digging is scheduled to start by mid August. Ogden requested that Tetra Tech provide a map of the HUTA work area and access road to minimize interference with any proposed Groundwater Investigation work. Temporarily discontinuing work in the J-2 Range because Ogden is currently preparing for soil sampling and well installation in the area. There will be a blow in place of 8 items in the J-2 Range today. Tetra Tech proposes to validate the Gun and Mortar Position anomalies by digging all anomalies in MP-5 and GP-5. Four pages of handouts of the anomalies and the validation locations were distributed to EPA. EPA asked when the other positions are scheduled for validation. The Guard indicated that excavation of all anomalies is not part of the munitions survey, only the HUTA and validation will be excavated. EPA agreed and suggested that validation be done at positions were there is evidence of burial (GP-11 and GP-16). EPA requested copies of the anomaly maps from each position to aid in the selection of the validation areas. Tetra Tech will provide EPA all of the anomaly maps and the calibration area map today. The validation of Demo 1 will use a 45mV threshold. Five trenches are proposed (3 inside the bowl and 2 outside) to be excavated. Tetra Tech will coordinate with Ogden on the anomalies detected in the soil borings located east of MW-19. The water bodies will be validated using visual observation from the shore and a boat. EPA asked if there was a response to comments on Tetra Tech's J-2 Estimation Plan; Tetra Tech will check. EPA requested the status of the radiological survey. The Guard was under the impression that the plan was if the steel plates were located then further investigations would be required. EPA indicated that it was previously agreed that soil samples would be collected at several locations and that a plan was required. Tetra Tech will prepare a plan before next weeks Tech Meeting. EPA requested an update of the start of work in the J1/J3 Ranges. Tetra Tech indicated that they have been concentrating their effort on the HUTA. EPA reminded Tetra Tech that their schedule has work starting on the J1/J3 Ranges in May.

- The DEP indicated that comments were e-mailed from some of the members on the IART on the soil sampling for the small arms ranges. EPA suggested that the agencies and the Guard discuss these comments at the conclusion of the Technical Meeting. Ogden indicated that comments from IART were requested by 7/19, and were to be resolved by 7/20.
- Ogden provided an update of the Rapid Response Action. Maps with the locations of the additional delineation grids and the data table were distributed. There were detections of nitroglycerin in three grids at the KD Range firing point. Additional soil delineation grids will have to be sampled next week. DEP asked the status of the containment pad design. Ogden indicated that the surveyor was on site this week.
- Ogden provided an update of the Groundwater Investigation. Currently installing the two deep wells at MW-108. The MW-108 blow down boring and well installation will commence next week. Currently installing the monitoring wells at MW-110 and the rig will relocate to the P-23 location next week. Completed the third round of the Group II new far field wells this week. The next scheduled groundwater sampling is the August Long Term Monitoring and the third round of the Demo 1 response wells which will commence July 31. The UXO clearance of the J-2 drilling pads and roads commenced. A 3-page handout of the results of the three soil samples from under the popper kettle was distributed. There are concentrations of lead and antimony above the MCP S-1 standards. The DEP asked how the popper kettle was going to be handled under the MCP. The Guard indicated that they would like to think about the best way to deal with it. EPA was informed the ash sample from the inside of the kettle was sampled for the full suit of analytes but only the explosive results have been received. EPA requested a map showing the locations of all the popper kettle samples. EPA asked the status of the sampling of the white powder observed at GP-11. Ogden indicated that it was not sampled yet but would look into it.
- A 1-page handout of the document status was distributed. EPA requested a complete list of the documents, not just those requiring some action, be e-mail by tomorrow. DEP indicated that they would not be commenting on the BIP reports. EPA asked what documents are the highest priority for EPA comments. Ogden suggested that the Background tech memo, FS Workplan (for DEP), and Demo 1 tech memo are the highest priority. Ogden also indicated that the Training Areas FSP should be reviewed, although the field work would most likely require an extension from EPA due to delays in method development.
- The Guard distributed their reply to Textron's comments to the proposed Phase II Investigation for the J3 and J1 Ranges.
- EPA requested the status of the 8321 and CHPPM Method results; Ogden will check on it. EPA requested an update on the perchlorate sampling. Ogden indicated that the August Long Term Monitoring round includes the perchlorate sampling and would look into the status of the previous perchlorate sampling.
- The IART Agenda was discussed
  6:00-6:10 Introduction
  6:10-6:30 Action Items
  6:30-8:00 Groundwater Update
  8:00-8:30 Munitions Survey
  8:30-8:45 Facilitator
  8:45-9:00 Other
  EPA requested that Tetra Tech provide a summary of their presentation prior to the meeting.
- The Guard distributed a draft map with the RDX detections in the Central Impact Area in a grayed area and a second map of the RDX detections above the health advisory in a grayed area. DEP requested that the proposed supplemental wells be added to the map. EPA requested that both maps be included as one map with different shading and the CS-19 plume be a hatched pattern. EPA suggested that this revised map and cross sections with the same shading be presented at the next IART meeting.

- EPA requested an update on the schedule for the Archive Search work. The Guard will e-mail the final scope to EPA.
- The Guard distributed a revised UXO incident report form and the table of UXO detonated or relocated. EPA requested that the charge used to detonate the item be added to the table.

The Guard, EPA, and MADEP had a meeting on July 20 to discuss technical issues, including the following:

- There was no update from Jacobs on the CS-19 Investigation. EPA indicated that comments on the CS-19 Report were submitted last night and that the major comment was that more work was required. DEP indicated that their comments would be submitted on Friday.
- The Guard provided an update of the Water Supply Investigation. The pump test for Site 2 has been completed with a rate of 1 million gallons per day. The next step is to define the ZOCs as required for the permit. The EA was submitted last week and the pipeline design continues. EPA did not think that they were going to comment on the EA but did note that the data set they were using was from May and that the pipeline was going through the FS-12 Area.
- Tetra Tech provided an update of the Munitions Survey. The preliminary data set for the aerial geophysics is completed and the final data set is being prepared. A handout of the response to agency comments on the HUTA Workplan was distributed to the agencies. The Guard indicated that AEC had comments on the Workplan. Tetra Tech suggested that the AEC comments would be addressed in a separate document. The Record of Environmental Consideration for the HUTA work was reviewed and signed by the NGB Representative & MAARNG Natural Resources Manager, but final approval of the REC is being withheld by MAARNG State Environmental Supervisor pending evaluation/coordination with NGB concerning cumulative impacts of AO activities on local environment. The surface clearance of the HUTA and processing area has commenced. UXO surface clearance of the J-2 Range continues and the brush clearing has just commenced. The J1/J3 areas of interest have been finalized. The preliminary work will begin with the land survey. Tetra Tech requested that the Guard obtain an electronic copy of the J-3 Range map from Textron. The Gun and Mortar validation study will be conducted on GP 10 and 11. Both the Gun and Mortar and Demo 1 validation will have a 45-mV threshold. The Guard asked for the schedule of the validation study. Tetra Tech indicated that they would have a better idea next week. EPA asked what the preliminary data for the slit trench showed. Tetra Tech indicated that there were lots of little anomalies. Tetra Tech asked if their GIS person had been in touch with Ogden. Ogden indicated that they had not.
- Ogden provided an update of the Rapid Response Action. Currently addressing DEP's comments to the Work Plan and require agency approval on the response to FEC and the public responsiveness summary. The Guard indicated that FEC submitted comments to the SMB and asked why is it being addressed in the Work Plan. EPA suggested that they be treated as any other public comment. The DEP assigned a file number of SE66-1112 to the J-3 Wetland NOI. The final hearing at the Sandwich Conservation Commission was last night. The Commission was looking for the DEP file number. The Guard submitted a letter to the Commission addressing their two conditions. The Commission requested a copy of the final RRA Work Plan. The third round of soil delineation sampling will commence this week in the KD Range. Six additional grids at three depths are proposed. The APC site walk has been canceled based upon the completion of the extent determination. The Treatability study continues. A #140 screen has been selected as the cut point. Envirogen has received the soil less than the cut point and has begun the biotreatment. Due to the low explosive concentrations, the soil has been spiked to track the percentage reduction during biotreatment. It was agreed that the agencies would receive the data before the Treatablility Study Report is out. The base map for the containment pad has been received from the surveyor.
- Ogden provided an update of the Groundwater Investigation. Continue to drill on MW-108b and should install the wells this week. Completed drilling on MW-111 (P-26) and will need to select

screens on Monday. The draft boring log for MW-111 was distributed. No groundwater sampling this week. Groundwater sampling of the August LTM round and the third round of the Demo 1 response wells is scheduled to commence the week of July 31. Unable to sample MW-23S due to five feet of silt and only six inches of water in the well. There may be a problem with the screen, which requires further investigation. Continue to develop the newly installed wells. UXO clearance continues in the J-2 Range. Commence UXO avoidance for the additional grids in KD Range. The date of small arms firing has changed from Tuesday through Thursday to Friday through Sunday. A handout of the Phase I and Phase II soil sample locations at the popper kettle were distributed. EPA indicated that during a recent visit to the popper kettle debris stockpile they observed some staining on the plastic or color change of the soil under the plastic and asked that it be examined to ensure that there is no reaction occurring.

- A handout of the draft IART Agenda was distributed. It was agreed that Action Items from the previous meeting, that will be discussed later as part of the Agenda, should be noted on the Status of the Action Items sheet.
  #3 - The DEP asked for an update on an inventory of weapons systems no longer used. The Guard will ask the MA Guard to look into this.
  #4 - The DEP indicated that there was no discussion of a CS-19 presentation at the JPAT. EPA will look into this and suggested that the text be changed to indicate that AFCEE has been invited.
  #9 - Change text from Unexploded Ordnance (UXO) to Munitions and the date should be changed to 7/27/00.
- The Guard provided an update of the UXO detected on the J-2 Range at the J2P-4 drill pad (Disposal Area 1). Approximately fifty-one 81-mm mortars were excavated in a burial pit and thirty 81-mm mortars were excavated in a second burial pit. The photograph of the first excavated pit was distributed. There is the possibility of two additional pits that have not been excavated yet. The UXO contractor should be finished with the clearance of the pad by the end of the day. The rounds were practice training rounds with live fuzes and possible spotting charges. Due to the hazard of the live fuzes, the rounds must be detonated in place. EPA indicated that the excavation of these rounds and future rounds should not disturb the soil of a proposed soil grid if possible. It was agreed to have a conference call Friday (7/21) at 9:00 to discuss the total number of items detected, the plan for the detonation, and the public notice.
- The Guard distributed a handout of the proposed responsibilities for the IART Assistant Facilitator for review. It was agreed to change the text from "hiring of three individuals in the near future, one of who will be" to "hiring of an individual who will be". It was agreed to add that this facilitator will be an employee of CH2MHill and will be a different job from the meeting recorder.
- A handout of the revised Small Arms Range soil sampling grid was distributed for review. The Guard suggested that they might add a standard 5-point composite grid as a comparison.
- The DEP asked the status of the C-4 that was buried at Demo 2. The Guard indicated that it is currently in the safe holding area and they are looking for a RCRA permitted disposal facility that will handle the material.
- The Tank Alley and Turpentine Road Targets FSP response to comments was distributed to the Agencies for review. The Agencies agreed with the responses.
- The Supplemental Response to EPA Comment 53 on the Draft J-1, J-3, L Ranges Workplan was distributed to the Agencies for their comments.
  - EPA indicated that before work started in the J-1 disposal area that Textron should show the exact location.
  - EPA suggested that the USGS look at Attachment 1 to make sure they agree.
  - EPA requested that the J1P-7 location be closer to the disposal area.
  - EPA indicated that the J1P-4 well is in the wrong location and it should be moved to the popper kettle as discussed in last weeks Tech Meeting.
  - EPA agrees with the J3P-1 particle track error and the location.

- EPA indicated in regards to J3P-7 that there were going to be three Textron wells or three Guard wells. EPA cannot locate the three other wells. EPA suggested meeting with Textron on the location of the wastewater disposal area. EPA will coordinate a meeting with Textron but indicated that their attorney is out this week.
- EPA suggested that J3P-10 be moved from Greenway Road to closer to the Workshop dry well area.
- EPA suggested that J1P-2 and J3P-1 be profiled and not just water table locations.

- A handout of the plan view, the inner transect cross section, and impact area boundary transect cross section with the estimated extent of explosive in groundwater were distributed for review.
  - Change the color of the plan view to match the cross sections.
  - Add supplemental CIA well locations.
  - Well 58MW0018 need the results.
  - Add transect locations to the plan view.
  - MW-50 color should be yellow.
  - Make the plan view agree with the inner transect between wells MW-98, MW-99 and MW-100.
  - Label the bedrock line
  - Correct the spelling of transect.
  - Make the results arrows show through the shading.
  - Remove the circle on the MW-95 F interval.
  - MW-89S need a concentration box.
  - DEP asked if this was going to be a handout or just on the screen for the IART meeting. It was agreed to have it as both a handout and on the screen but it should be stamped draft with a date. The Guard requested that "Data as of " the date is added to the title.
- The Response to Comments on the Revised Draft Interim LTM Groundwater Plan was distributed to the agencies.
- DEP requested an update on the status of the Textron responses to the RCRA 3007 information request. EPA indicated that they are reviewing it.
- EPA distributed a paper on the Environmental Fate and Behavior of Munitions in Plant Systems. EPA requested sample procedure and the results of the brush chip sample from Demo 1.
- DEP requested a list of people interviewed for the CI Plan. EPA indicated that EPA and DEP were supposed to be included in the interview process. The Guard indicated that they will get the list of people and include the agencies in future interviews.
- The priorities for agency review were discussed.
  1. Draft FS Work Plan
  2. Demo 1 Tech Memo
  3. Background Groundwater Tech Memo
  4. Profile vs. Well Comparison Tech Memo
- The Guard indicated that the meeting notes from last week on the HUTA REC should be corrected to "The Record of Environmental Consideration for the HUTA work was reviewed and signed by the NGB Representative & MAARNG Natural Resources Manager, but final approval of REC is being withheld by MAARNG State Environmental Supervisor pending evaluation/coordination with NGB concerning cumulative impacts of AO activities on local environment." The Guard also noted that the citizen members of the IART would not be allowed to observe the SAR firing and sampling due to safety precautions. EPA requested that they be notified of the SAR soil sampling date so they may observe the sampling process.
- EPA distributed copies of their field notes from the Bob Clark interview.
- The Guard distributed a revised UXO Table and the revised UXO Incident Report. EPA requested that Ogden check to see what the soil collected from under the pyrotechnic residual was sampled for because it should have been sampled for 8321.
- A review of the screen selected for MW-108b indicated that the 110' -120' bwt screen overlapped with one of the screens in MW-108. It was agreed to move the 110' -120' bwt screen to 150'-160' bwt.

The Guard, EPA, and MADEP had a meeting on July 27 to discuss technical issues, including the following:

- Tetra Tech provided an update of the Munitions Survey. The aerial geophysical survey preliminary data set from the subcontractor is completed. The final data set is being prepared. The data will be ready for a presentation in two weeks and will need to be presented outside the Tech Meeting. Awaiting agency comments on the HUTA Workplan. The land survey of the J-1 Range will begin next week. The brush cutting and UXO surface clearance of the J-2 range will continue next week after the UXO is detonated. EPA asked if the aerial geophysical survey included the J Ranges. Tetra Tech indicated that the J-2 Range is covered but unsure if the J1 Range is included. EPA asked if the preliminary data showed an anomaly where the pits of UXO on J-2 were located. Tetra Tech indicated that there were anomalies on J-2 that may be associated with the pits. EPA requested that Ogden and Tetra Tech review the anomalies on J-2 with the additional well locations requiring UXO clearance. Gun Positions 10 and 11 will be used for the validation study, excavating all anomalies above the 45-mV threshold. The Demo 1 validation study will excavate selected anomalies above the 45-mV threshold. Ogden will send a map to Tetra Tech showing the soil boring locations that encountered a magnetic anomaly. Tetra Tech provided a presentation of the Slit Trench geophysical survey.
- Ogden provided an update of the Rapid Response Action. The final workplan is ready but needs agency comments on the responsiveness survey and the FEC comments. The DEP RAM Plan version of the RRA needs to be submitted next week. Waiting for the results of the third round of delineation sampling in the KD Range. Working on the treatability study soil washing report, which should be distributed to the technical team next week. Continue to work on the biotreatment study. The containment pad design will be ready next week. In August the following are scheduled to be completed: contracting, containment pad construction, UXO clearance, order of conditions for J-3 Wetland, and revised Health and Safety Plan. EPA indicated that the RRA is on the 7/28 IART agenda and Ogden should be prepared to give a brief summary.
- Ogden provided an update of the Groundwater Investigation. Well installation at MW-108b (P-22) and MW-111 (P-26) were completed. Commenced drilling on MW-112 (P-24) and MW-113 (P-25) this week. No groundwater sampling this week. The August round of the Long Term Monitoring and the third round of the Demo 1 Response well will start next week. Will attempt to redevelop well MW-23S by bailer or by adding water and using an air-lift pump. Continue to develop the newly installed wells. The detonation of the UXO located on J-2 will be completed today. The soil samples from the craters will be collected today or tomorrow. Continue to clear the drill pads on the J-2 Range. Commence the UXO avoidance marking on the Turpentine Road and Tank Alley Targets and the grids in the L Range. Air Samples were collected from the M-16 firing at the C Range on 7/21/00. Twenty people fired approximately 200 rounds for about 2.5 hours. The firing on 7/22/00 used squad assault weapons and used approximately 5,000 rounds. The Guard indicated that they would review the results of this air sampling round and determine if additional air monitoring is warranted. The Guard asked what the turn around time was for these samples. Ogden was not sure but would find out what the turn around time was.
- The document status was discussed. The FS Workplan will be addressed in a separate meeting. Continued the preparation of the Phase IIb FSPs. EPA indicated that they would have one letter with comments for all the Phase IIb FSPs. The Guard asked if there was a deadline for the submittal of these FSPs. EPA indicated that there are dates in the comments to the workplan.
- A review of the Phase IIb reconnaissance and sampling programs was discussed.
  - The Gravity Anti Tank Range and Inactive Demo areas already have FSP into the agencies.
  - BA-1 soil sampling on hold until the new archive search is completed. The FSP will have one well profiled below the particle track from 27MW0007.

- The Grenade Court GN-2 will have four soil grids staggered in a W shape which were marked during the reconnaissance. Samples will be collected from 0"-3", 3"-6", and 6"-12" and analyzed for explosives, metals, and SVOC's.
- Demo 2 will have 2 water table wells installed 300 to 400 feet downgradient of MW-16 and the detonation craters. One soil grid at the locations of the C-4 residuals. EPA indicated that they would require more grids in their comments.
- Mock Village will require more information to focus the investigation. A FSP will be submitted stating that future investigations are on hold until more information is obtained.
- The K Range will have 10 grids at the firing line, 4 grids at Target B, 3 grids at Target C, 1 grid at the southern berm, 7 grids at Target E, and 6 grids at the Target F.
- EPA indicated that there are 3 concrete slabs so there should be six composite samples and 18 discretes. The FSP will have the contingency for the installation of a new well if the existing wells are not suitable.
- The former SAR will have 7 grids at the former C Range, and 5 grids at the former D range. The former B Range has samples collected in this area as part of a former Mortar Position investigation and would have to look at the data before determining the grid locations.
- Former E Range will have 2 grids at the firing position and 1 grid at the target position. EPA suggested that additional information needed to be obtained to locate the additional target locations. It was agreed to have two FSPs for this area.
- The IBC range will be investigated as part of the Training Areas Investigation.
- The Engineering Training Areas are in hold pending further information.
- The Cleared Areas work is postponed until the fall but will probably require 4 to 5 grids.
- EPA indicated that Ogden was going to provide distances on the GAGB Range. Ogden indicated that the locations have been plotted and need to have EPA review the figure.

- DEP asked the status of the ASR. The Guard indicated that the contracting will be completed this week or next week. Need agency comments.
- A table of the complete Burn Kettle (popper kettle) results was distributed for review. The pesticide data showed large intercolumn discrepancy and are awaiting validation.
- Ogden e-mailed the ricochet trough data to EPA. Textron also reported data for metals above the RSC-1.
- The plan view of the Central Impact Area explosive detection area was distributed.
- There was a discussion of the J1/J3 well locations. Ogden will provide the USGS the J1/J3 well location table and figure. USGS will attend next weeks IART meeting and discuss the changes to the model and will discuss the proposed well locations with EPA.
- EPA indicated that there will be a copy of the RCRA 3007 response from Textron at the IAGS meeting for review.
- EPA raised concern on how Contaminants of Potential Concern (COPCs) and Contaminants of Concern (COCs) are being identified in reports to the agencies. EPA believes that contaminates are being recommended for elimination prematurely in some cases and inconsistently in other cases. EPA requests that Ogden and the Guard review IRP procedures for developing COPCs and COCs as well as Region 1 Risk Assessment Procedures. All agreed that future review and discussion on this issue was necessary, particularly for future feasibility study reports.
- EPA requested an update on the 8321 and CHPPM results. Ogden indicated that the lab is having problems with the 8321 analysis but should be ready soon. The CHPPM results are ready.
- It was agreed that the IART facilitator discussion will be postponed until the September IART meeting.

EPA convened a meeting of the Impact Area Review Team (IART) on July 27. Topics for the meeting included updates on the groundwater investigation and the munition survey. The next IART meeting is scheduled for September 7.

2. SUMMARY OF DATA RECEIVED

Validated data were received during July for Sample Delivery Groups (SDGs) 301, 315, 331-333, and 336. These SDGs contain results for 10 soil samples from UXO detonation craters; 17 groundwater samples from monitoring wells; 39 groundwater profile samples from MW-85, -86, -91, -92, and -93; 89 soil boring samples from response wells MW-90, -91, -92, -94, and -95; and 9 soil samples collected from beneath C-4 residuals at Demo 1.

Validated Data

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, and 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 was greater than or equal to (GTE) the lowest MCL or HA for the analyte(s). A yellow circle is used to depict a well where the concentration of all analytes was less than (LT) the lowest MCL or HA. A green circle is used to depict a well where the given analytes were not detected. 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, since 1997.

There are multiple labels listed for some wells in Figures 1-5, which indicate 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, starting at the center of the 70-foot contour (the top of the mound) and moving radially outward. 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 at lower concentrations, or later 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; the minor differences are mentioned in the following

paragraphs. 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 four general areas: Demo Area 1 (wells 19, 31, 34, 73, 76, and 77); the Impact Area and CS-19 (wells 58MW0002, 58MW0009E, 1, 2, 23, 25, 37, 38, and 40); southeast of the J Ranges (wells 90MW0022, 90WT0013); and at the steel-lined pit (well 58). 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 all of the locations listed above. One of the exceedance wells, 90WT0013, has had no detectable explosives in the last two sample rounds (January and October 1999).

Demo Area 1 has a well-defined source area and extent of contamination. The estimated extent of RDX exceeding the HA at Demo Area 1 based on the most recent groundwater measurements is indicated by a magenta concentration contour line on Figure 1 and the inset.

CS-19 is a site located in the Impact Area, portions of which are currently under investigation by the Air Force Center for Environmental Excellence (AFCEE) under the Superfund program. A bunker and cleared area on the north side of CS-19 are under investigation under the IAGS. A magenta concentration contour line is used in Figure 1 and the inset to show the extent of RDX exceeding the HA at CS-19.

Concentration contours will be prepared for other areas, if appropriate, when sufficient data are available. Studies are currently underway to delineate the extent of contaminants in the Impact Area, which may include several separate sources. Studies are also underway at Demo 1 and southeast of the J Ranges to evaluate the sources and extent of contaminants.

Figure 2: Metals in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for metals are scattered throughout the study area. Where two or more rounds of sampling data are available, the exceedances generally have not been replicated in consecutive sampling rounds. The exceedances have been measured for antimony, arsenic, cadmium, chromium, lead, molybdenum, sodium, thallium and zinc. None of the 10 antimony exceedances were repeated in consecutive sampling rounds. Arsenic (in well 7M1), cadmium (52M3), and chromium (7M1) each had one exceedance in a single sampling round. The three lead exceedances (wells 2S, 7M1, and ASP) were not repeated in consecutive sampling rounds. Thirteen of the 39 molybdenum exceedances were repeated in consecutive sampling rounds (wells 2S, 2D, 13D, 16D, 46M2, 52D, 52M3, 53M1, 53D, 54M2, 54S, 55D, and 57S). Molybdenum concentrations declined in 12 of these 13 wells. Two of the 12 sodium exceedances were repeated in consecutive sampling rounds (wells 2S and SDW261160). Six of the 45 thallium exceedances were repeated in consecutive sampling rounds (wells 7M1, 7M2, 47M2, 52S, 52D, and 54M1). Zinc exceeded the HA in seven wells, all of which are constructed of galvanized (zinc-coated) steel.

The distribution and lack of repeatability of the metals exceedances is not consistent with a contaminant source, nor do the detections appear to be correlated with the presence of explosives or other organic compounds. The Guard has re-evaluated inorganic background concentrations using the expanded groundwater quality database of 1999, and has submitted a draft report describing background conditions. This draft report indicates that of the nine metals exceeding drinking water criteria, only molybdenum is potentially associated with the site. The population characteristics of the remaining eight metals were determined to be consistent with background.

Figure 3: VOCs in Groundwater Compared to MCLs/HAs

Exceedances of drinking water criteria for VOCs are indicated in three general areas: CS-10 (wells 03MW0007A, 03MW0014A, and 03MW0020), LF-1 (well 27MW0017B), and FS-12 (wells MW-45S, 90MW0003, and ECMWSNP02D). CS-10, LF-1, and FS-12 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, for vinyl chloride at LF-1, and for toluene, 1,2-dichloroethane, and ethylene dibromide (EDB) at FS-12. 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 two locations (wells 45S and 90MW0003, see Inset B) which had exceedances for naphthalene, and well 41M1 which had an estimated level of 2,6-dinitrotoluene (DNT) that is equal to the HA. 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 (7/98) and 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 during sample collection and analysis. Only three locations (out of 70) 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). The naphthalene exceedances at wells 45S and 90MW0003 are also located in FS-12.

The 2,6-DNT detected at well 41M1 is interesting in that the explosive analysis of this sample by EPA Method 8330 did not detect this compound. The reporting limit under Method 8330 is much lower than the limit for the SVOC method. Well 41M1 was installed along the groundwater flow path downgradient from well 2M2, which has had RDX detected above the HA in the explosive analysis as indicated above. The 2,6-DNT detection at well 41M1 was in the second sampling round, and samples from this well did not have 2,6-DNT detected by either the SVOC method or the explosive method in the first, third, or fourth sampling rounds.

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 in a sample collected in June 1999. This well was sampled again in November 1999. The results of the November sample indicate no detectable pesticides although hydrocarbon interference was noted. It appears from the November sample that pesticides identified in the June sample were false positives. However, the June sample results cannot be changed when following the EPA functional guidelines for data validation. The text of the validation report for the June sample has been revised to include an explanation of the hydrocarbon interference and the potential for false positives.

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 typically conducted in this timeframe. Other types of analyses may be rushed depending on the proposed use of the data. The rush data have not yet been 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 a detection of 2-amino-4,6-dinitrotoluene in a soil sample from the location of a broken 30-mm projectile at the J-2 Range. This detection was not verified by PDA spectra.

Table 4 includes profile results from drilling at the Impact Area response wells 110 and 111. TNT (1x), 2,6-DNT (1x), RDX (1x), and HMX (1x) were verified as detected in profile samples.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period include the following:

Letter of 4/27/00 re: Revised Proposal for SAR	07/03/00
Letter of 6/2/00 re: Response to Comments for Revised SAR Proposal	07/03/00
Letter of 7/3/00 re: Revised Proposal for SAR	07/03/00
Draft Technical Memorandum 00-3 Evaluation of Gun & Mortar Firing Positions	07/06/00
Weekly Progress Update (June 26 - 30)	07/10/00
Monthly Progress Report #39 for June 2000	07/10/00
Draft Phase II (b) FSP for Gravity Anti-Tank Range	07/13/00
Final Phase II (b) Supplemental Workplan	07/14/00
Weekly Progress Update (July 3 - 7)	07/14/00
Final Phase II (b) Workplan	07/19/00
J-3 Wetland Technical Memorandum (TM 99-4)	07/21/00
Weekly Progress Update (July 10 - 14)	07/24/00
Draft Summary Report – 28 December 1999 UXO Detonation	07/24/00
Draft Summary Report – 18 January 2000 UXO Detonation	07/24/00
Draft Phase II (b) FSP for Demolition Area 2	07/27/00
Weekly Progress Update (July 17 - 21)	07/28/00

4. SCHEDULED ACTIONS

Figure 6 provides a Gantt chart updated to reflect progress and proposed work. Activities scheduled for August and early September include:

- IART review Demo 1 Draft Soil/Groundwater Report (TM 00-2)
- Continue Impact Area Report Preparation
- Continue J-2 Range soil/groundwater and geophysics investigations
- Revise draft J-1/J-3/L Range Workplan
- Continue J-1/J-3/L Range soil/groundwater investigation
- Continue J-1/J-3 Range geophysics investigation

- IART review Gun/mortar Draft Report (TM 00-3)
- Revise draft report on "trenches" investigation (TM 00-1)
- IART review Mortar Targets Draft Report (TM 00-4)
- Complete method development and Training Areas Investigation
- Begin Training Areas Draft Report
- Complete final workplan for HUTA-1
- Continue HUTA-1 investigation
- Continue groundwater monitoring programs
- Complete revisions of Interim Longterm Monitoring (ILTGM) plan for CY 2000
- Complete pre-RRA implementation
- Continue RRA Source Control
- Continue RRA Innovative Treatment

5. SUMMARY OF ACTIVITIES FOR DEMO 1

EPA provided comments on the draft FS Workplan for AO3 (including Demo 1). The regulatory agencies and other stakeholders are reviewing the draft technical memorandum for the Demo 1 response actions submitted 6/8/00. The Guard is awaiting the results of the soil sampling of the nine additional deep soil borings.

TABLE 2
SAMPLING PROGRESS
7/1/2000-7/31/2000

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
ASCRANGE-D	ASCRANGE-D	7/21/00	AIR	0.00	0.00		
ASCRANGE-DF	ASCRANGE-D	7/21/00	AIR	0.00	0.00		
ASCRANGE-U	ASCRANGE-U	7/21/00	AIR	0.00	0.00		
ASCRANGE-UF	ASCRANGE-U	7/21/00	AIR	0.00	0.00		
HCJ2155MM01	HDJ2155MM01	7/28/00	CRATER GRAB	0.00	0.25		
HCJ2155MM02	HDJ2155MM02	7/28/00	CRATER GRAB	0.00	0.25		
HCJ2155MM03	HDJ2155MM03	7/28/00	CRATER GRAB	0.00	0.25		
HCJ281MM17	HDJ281MM17	7/28/00	CRATER GRAB	0.00	0.25		
HCJ281MM18	HDJ281MM18	7/28/00	CRATER GRAB	0.00	0.25		
HCJ281MM19	HDJ281MM19	7/28/00	CRATER GRAB	0.00	0.25		
HCJ281MM21	HDJ281MM21	7/28/00	CRATER GRAB	0.00	0.25		
HCJ281MM22	HDJ281MM22	7/28/00	CRATER GRAB	0.00	0.25		
HCJ281MM23	HCJ281MM23	7/28/00	CRATER GRAB	0.00	0.25		
HCJ281MM28	HCJ281MM28	7/28/00	CRATER GRAB	0.00	0.25		
HDJ2155MM01	HDJ2155MM01	7/28/00	CRATER GRAB	0.00	0.25		
HDJ2155MM02	HDJ2155MM02	7/28/00	CRATER GRAB	0.00	0.25		
HDJ2155MM03	HDJ2155MM03	7/28/00	CRATER GRAB	0.00	0.25		
HDJ23.5IN1	HDJ23.5IN1	7/14/00	CRATER GRAB	0.00	0.25		
HDJ230MM	HDJ230MM	7/14/00	CRATER GRAB	0.00	0.25		
HDJ230MMD	HDJ230MM	7/14/00	CRATER GRAB	0.00	0.25		
HDJ260MM1	HDJ260MM1	7/14/00	CRATER GRAB	0.00	0.25		
HDJ281MM08	HDJ281MM08	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM09	HDJ281MM09	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM10	HDJ281MM10	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM11	HDJ281MM11	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM12	HDJ281MM12	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM13	HDJ281MM13	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM14	HDJ281MM14	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM15	HDJ281MM15	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM16	HDJ281MM16	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM17	HDJ281MM17	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM18	HDJ281MM18	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM19	HDJ281MM19	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM2	HDJ281MM2	7/14/00	CRATER GRAB	0.00	0.25		
HDJ281MM20	HDJ281MM20	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM21	HDJ281MM21	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM22	HDJ281MM22	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM23	HDJ281MM23	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM24	HDJ281MM24	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM25	HDJ281MM25	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM26	HDJ281MM26	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM27	HDJ281MM27	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM28	HDJ281MM28	7/28/00	CRATER GRAB	0.00	0.25		
HDJ281MM3	HDJ281MM3	7/14/00	CRATER GRAB	0.00	0.25		
HDJ281MM4	HDJ281MM4	7/14/00	CRATER GRAB	0.00	0.25		
HDJ281MM5	HDJ281MM5	7/14/00	CRATER GRAB	0.00	0.25		
HDJ281MM6	HDJ281MM6	7/14/00	CRATER GRAB	0.00	0.25		
HDJ281MM7	HDJ281MM7	7/18/00	CRATER GRAB	0.00	0.25		
HDJ2PYRRES	HDJ2PYRRES	7/14/00	CRATER GRAB	0.00	0.25		

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
7/1/2000-7/31/2000

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDCS19105MMSS1	HDCS19105MMSS1	7/11/00	CRATER GRID	0.00	0.50		
HDCS19105MMSS2	HDCS19105MMSS2	7/11/00	CRATER GRID	0.00	0.50		
HDCS19105MMSS3	HDCS19105MMSS3	7/11/00	CRATER GRID	0.00	0.50		
HDCS19105MMSS4	HDCS19105MMSS4	7/11/00	CRATER GRID	0.00	0.50		
HDCS19105MMSS5	HDCS19105MMSS5	7/11/00	CRATER GRID	0.00	0.50		
HDCS19105MMSS6	HDCS19105MMSS6	7/11/00	CRATER GRID	0.00	0.50		
HDCS19105MMSS7	HDCS19105MMSS7	7/11/00	CRATER GRID	0.00	0.50		
HDCS19105MMSS8	HDCS19105MMSS8	7/11/00	CRATER GRID	0.00	0.50		
HDCS19105MMSS8	HDCS19105MMSS8	7/11/00	CRATER GRID	0.00	0.50		
HDTR81MMSS1	HDTR81MMSS1	7/11/00	CRATER GRID	0.00	0.50		
HDTR81MMSS2	HDTR81MMSS2	7/10/00	CRATER GRID	0.00	0.50		
HDTR81MMSS3	HDTR81MMSS3	7/11/00	CRATER GRID	0.00	0.50		
HDTR81MMSS4	HDTR81MMSS4	7/11/00	CRATER GRID	0.00	0.50		
HDTR81MMSS5	HDTR81MMSS5	7/11/00	CRATER GRID	0.00	0.50		
HDTR81MMSS6	HDTR81MMSS6	7/11/00	CRATER GRID	0.00	0.50		
HDTR81MMSS7	HDTR81MMSS7	7/11/00	CRATER GRID	0.00	0.50		
HDTR81MMSS8	HDTR81MMSS8	7/11/00	CRATER GRID	0.00	0.50		
HDTR81MMSS8D	HDTR81MMSS8	7/11/00	CRATER GRID	0.00	0.50		
ASCRANGE-BC	ASCRANGE-BC	7/24/00	FIELDQC	0.00	0.00		
ASCRANGE-BF	ASCRANGE-BF	7/24/00	FIELDQC	0.00	0.00		
G108DUE	FIELDQC	7/10/00	FIELDQC	0.00	0.00		
G110DRE	FIELDQC	7/6/00	FIELDQC	0.00	0.00		
G111DAE	FIELDQC	7/18/00	FIELDQC	0.00	0.00		
G111DIE	FIELDQC	7/19/00	FIELDQC	0.00	0.00		
HC44CAB1BAE	FIELDQC	7/20/00	FIELDQC	0.00	0.00		
HD61K1AAE	FIELDQC	7/21/00	FIELDQC	0.00	0.00		
HDCS19105MMSS8	FIELDQC	7/11/00	FIELDQC	0.00	0.00		
HDJ2155MM-E	FIELDQC	7/28/00	FIELDQC	0.00	0.00		
HDJ2155MM-T	FIELDQC	7/28/00	FIELDQC	0.00	0.00		
HDJ23.5IN1E	FIELDQC	7/14/00	FIELDQC	0.00	0.00		
HDJ281MM7-E	FIELDQC	7/18/00	FIELDQC	0.00	0.00		
HDJ281MM7-T	FIELDQC	7/18/00	FIELDQC	0.00	0.00		
S111DCE	FIELDQC	7/14/00	FIELDQC	0.00	0.00		
S111DET	FIELDQC	7/14/00	FIELDQC	0.00	0.00		
S111DFE	FIELDQC	7/17/00	FIELDQC	0.00	0.00		
S112DCE	FIELDQC	7/27/00	FIELDQC	0.00	0.00		
S112DCT	FIELDQC	7/27/00	FIELDQC	0.00	0.00		
S113DHE	FIELDQC	7/28/00	FIELDQC	0.00	0.00		
S113DLE	FIELDQC	7/31/00	FIELDQC	0.00	0.00		
S113DLT	FIELDQC	7/31/00	FIELDQC	0.00	0.00		
SP26DAT	FIELDQC	7/12/00	FIELDQC	0.00	0.00		
SP26DBE	FIELDQC	7/12/00	FIELDQC	0.00	0.00		
W57DDT	FIELDQC	7/6/00	FIELDQC	0.00	0.00		
W57M1T	FIELDQC	7/5/00	FIELDQC	0.00	0.00		
W84DDT	FIELDQC	7/7/00	FIELDQC	0.00	0.00		
W84M1T	FIELDQC	7/10/00	FIELDQC	0.00	0.00		
WSA4AE	FIELDQC	7/5/00	FIELDQC	0.00	0.00		
WSA1AA	101AA	7/5/00	GAUZE WIPE				
WSA2AA	101AA	7/5/00	GAUZE WIPE				

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
7/1/2000-7/31/2000

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
WSA3AA	101AA	7/5/00	GAUZE WIPE				
WSA4AA	101AA	7/5/00	GAUZE WIPE				
WSS1AA	101ASM	7/5/00	GAUZE WIPE				
WSS2AA	101ASM	7/5/00	GAUZE WIPE				
WSS3AA	101ASM	7/5/00	GAUZE WIPE				
WSS4AA	101ASM	7/5/00	GAUZE WIPE				
WSS4AD	101ASM	7/5/00	GAUZE WIPE				
W01DDA	MW-1	7/31/00	GROUNDWATER	290.00	300.00	170.19	180.19
W01M1A	MW-1	7/31/00	GROUNDWATER	220.00	225.00	101.65	106.65
W01SSA	MW-1	7/31/00	GROUNDWATER	114.00	124.00	-5.67	4.33
W57DDA	MW-57	7/6/00	GROUNDWATER	213.00	223.00	124.58	134.58
W57M1A	MW-57	7/5/00	GROUNDWATER	188.00	198.00	99.60	109.60
W84DDA	MW-84	7/7/00	GROUNDWATER	190.00	200.00	150.10	160.10
W84M1A	MW-84	7/10/00	GROUNDWATER	140.00	150.00	101.14	111.14
W84M1D	MW-84	7/10/00	GROUNDWATER	140.00	150.00	101.14	111.14
W84M2A	MW-84	7/7/00	GROUNDWATER	104.00	114.00	15.07	25.07
W84M3A	MW-84	7/6/00	GROUNDWATER	79.00	89.00	39.00	49.00
W84SSA	MW-84	7/6/00	GROUNDWATER	54.00	64.00	14.00	24.00
DW0717	GAC WATER	7/17/00	IDW				
G108DTA	MW-108	7/10/00	PROFILE	360.00	360.00	193.10	193.10
G108DUA	MW-108	7/10/00	PROFILE	370.00	370.00	203.10	203.10
G110DNA	MW-110	7/6/00	PROFILE	310.00	310.00	134.50	134.50
G110DOA	MW-110	7/6/00	PROFILE	320.00	320.00	144.50	144.50
G110DOD	MW-110	7/6/00	PROFILE	320.00	320.00	144.50	144.50
G110DPA	MW-110	7/6/00	PROFILE	330.00	330.00	154.50	154.50
G110DQA	MW-110	7/6/00	PROFILE	340.00	340.00	164.50	164.50
G110DRA	MW-110	7/6/00	PROFILE	350.00	350.00	174.50	174.50
G111DAA	MW-111	7/18/00	PROFILE	140.00	140.00	2.90	2.90
G111DBA	MW-111	7/18/00	PROFILE	150.00	150.00	12.90	12.90
G111DCA	MW-111	7/18/00	PROFILE	160.00	160.00	22.90	22.90
G111DDA	MW-111	7/18/00	PROFILE	170.00	170.00	32.90	32.90
G111DEA	MW-111	7/18/00	PROFILE	180.00	180.00	42.90	42.90
G111DED	MW-111	7/18/00	PROFILE	180.00	180.00	42.90	42.90
G111DFA	MW-111	7/18/00	PROFILE	190.00	190.00	52.90	52.90
G111DGA	MW-111	7/18/00	PROFILE	200.00	200.00	62.90	62.90
G111DHA	MW-111	7/18/00	PROFILE	210.00	210.00	72.90	72.90
G111DIA	MW-111	7/19/00	PROFILE	220.00	220.00	82.90	82.90
G111DJA	MW-111	7/19/00	PROFILE	230.00	230.00	92.90	92.90
G111DJD	MW-111	7/19/00	PROFILE	230.00	230.00	92.90	92.90
G111DKA	MW-111	7/19/00	PROFILE	240.00	240.00	102.90	102.90
S108DAA	MW-108	7/12/00	SOIL BORING	0.00	0.50		
S108DBA	MW-108	7/12/00	SOIL BORING	1.50	2.00		
S109DAA	MW-109	7/12/00	SOIL BORING	0.00	0.50		
S109DBA	MW-109	7/12/00	SOIL BORING	1.50	2.00		
S110DAA	MW-110	7/12/00	SOIL BORING	0.00	0.50		
S110DBA	MW-110	7/12/00	SOIL BORING	1.50	2.00		
S111DCA	MW-111	7/14/00	SOIL BORING	10.00	14.00		
S111DDA	MW-111	7/14/00	SOIL BORING	20.00	22.00		
S111DEA	MW-111	7/14/00	SOIL BORING	30.00	34.00		

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
7/1/2000-7/31/2000

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
S111DED	MW-111	7/14/00	SOIL BORING	30.00	34.00		
S111DFA	MW-111	7/17/00	SOIL BORING	40.00	42.00		
S111DGA	MW-111	7/17/00	SOIL BORING	50.00	52.00		
S111DHA	MW-111	7/17/00	SOIL BORING	60.00	62.00		
S111DIA	MW-111	7/17/00	SOIL BORING	70.00	72.00		
S111DJA	MW-111	7/17/00	SOIL BORING	80.00	82.00		
S111DKA	MW-111	7/17/00	SOIL BORING	90.00	92.00		
S111DLA	MW-111	7/18/00	SOIL BORING	100.00	102.00		
S111DMA	MW-111	7/18/00	SOIL BORING	110.00	112.00		
S111DNA	MW-111	7/18/00	SOIL BORING	120.00	122.00		
S111DOA	MW-111	7/18/00	SOIL BORING	130.00	132.00		
S112DCA	MW-112	7/27/00	SOIL BORING	10.00	12.00		
S112DDA	MW-112	7/27/00	SOIL BORING	20.00	22.00		
S112DEA	MW-112	7/27/00	SOIL BORING	30.00	32.00		
S112DFA	MW-112	7/27/00	SOIL BORING	40.00	42.00		
S112DGA	MW-112	7/27/00	SOIL BORING	50.00	52.00		
S112DGD	MW-112	7/27/00	SOIL BORING	50.00	52.00		
S112DHA	MW-112	7/27/00	SOIL BORING	60.00	62.00		
S112DIA	MW-112	7/27/00	SOIL BORING	70.00	72.00		
S112DJA	MW-112	7/27/00	SOIL BORING	80.00	82.00		
S112DJD	MW-112	7/27/00	SOIL BORING	80.00	82.00		
S112DKA	MW-112	7/27/00	SOIL BORING	90.00	92.00		
S113DCA	MW-113	7/27/00	SOIL BORING	10.00	12.00		
S113DCD	MW-113	7/27/00	SOIL BORING	10.00	12.00		
S113DDA	MW-113	7/27/00	SOIL BORING	20.00	22.00		
S113DEA	MW-113	7/27/00	SOIL BORING	30.00	32.00		
S113DFA	MW-113	7/27/00	SOIL BORING	40.00	42.00		
S113DGA	MW-113	7/27/00	SOIL BORING	50.00	52.00		
S113DHA	MW-113	7/28/00	SOIL BORING	60.00	62.00		
S113DIA	MW-113	7/28/00	SOIL BORING	70.00	72.00		
S113DID	MW-113	7/28/00	SOIL BORING	70.00	72.00		
S113DJA	MW-113	7/28/00	SOIL BORING	80.00	82.00		
S113DJD	MW-113	7/28/00	SOIL BORING	80.00	82.00		
S113DKA	MW-113	7/28/00	SOIL BORING	90.00	92.00		
S113DLA	MW-113	7/31/00	SOIL BORING	100.00	102.00		
S113DMA	MW-113	7/31/00	SOIL BORING	110.00	112.00		
SP23DAA	P-23	7/12/00	SOIL BORING	0.00	0.50		
SP23DBA	P-23	7/12/00	SOIL BORING	1.50	2.00		
SP26DAA	MW-111	7/12/00	SOIL BORING	0.00	0.50		
SP26DBA	MW-111	7/12/00	SOIL BORING	1.50	2.00		
HC44CAB1BAA	44CA	7/20/00	SOIL GRID	1.50	2.00		
HC44CAB1BAD	44CA	7/20/00	SOIL GRID	1.50	2.00		
HC44CABA1AAA	44CA	7/20/00	SOIL GRID	0.00	0.50		
HC44DAA1BAA	44DA	7/20/00	SOIL GRID	1.50	2.00		
HC44DAAA1AAA	44DA	7/20/00	SOIL GRID	0.00	0.50		
HC44DAB1BAA	44DA	7/20/00	SOIL GRID	1.50	2.00		
HC44DABA1AAA	44DA	7/20/00	SOIL GRID	0.00	0.50		
HD61K1AAA	61K	7/21/00	SOIL GRID	0.00	0.25		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
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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 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2000

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
ECMWSNP02	ECMWSNP02D	9/13/1999	504	1,2-DIBROMOETHANE (ETHY	110.00		NG/L	79.90	84.90	50.00	X
MW-19	W19SSA	3/5/1998	8330N	2,4,6-TRINITROTOLUENE	10.00	J	UG/L	0.00	10.00	2.00	X
MW-19	W19S2A	7/20/1998	8330N	2,4,6-TRINITROTOLUENE	16.00		UG/L	0.00	10.00	2.00	X
MW-19	W19S2D	7/20/1998	8330N	2,4,6-TRINITROTOLUENE	16.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	2/12/1999	8330N	2,4,6-TRINITROTOLUENE	7.20	J	UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	9/10/1999	8330N	2,4,6-TRINITROTOLUENE	2.60	J	UG/L	0.00	10.00	2.00	X
58MW0002	WC2XXA	2/26/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	19.00		UG/L	0.00	0.00	2.00	X
58MW0002	WC2XXA	1/14/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	20.00		UG/L	0.00	0.00	2.00	X
58MW0002	WC2XXA	10/8/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	8.80		UG/L	0.00	0.00	2.00	X
58MW0009E	WC9EXA	10/2/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	7.70		UG/L	21.00	26.00	2.00	X
58MW0009E	WC9EXA	1/26/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	17.00		UG/L	21.00	26.00	2.00	X
58MW0009E	WC9EXA	9/28/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	18.00		UG/L	21.00	26.00	2.00	X
58MW0009E	WC9EXD	9/28/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	18.00		UG/L	21.00	26.00	2.00	X
90MW0022	WF22XA	1/26/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.80		UG/L	80.00	85.00	2.00	X
90MW0022	WF22XA	2/16/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.40		UG/L	80.00	85.00	2.00	X
90MW0022	WF22XA	9/30/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20		UG/L	80.00	85.00	2.00	X
90WT0013	WF13XA	1/16/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.20	J	UG/L	2.00	12.00	2.00	X
MW-1	W01SSA	9/30/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	0.00	10.00	2.00	X
MW-1	W01SSD	9/30/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.40		UG/L	0.00	10.00	2.00	X
MW-1	W01SSA	2/22/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.80		UG/L	0.00	10.00	2.00	X
MW-1	W01SSA	9/7/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	0.00	10.00	2.00	X
MW-1	W01MMA	9/29/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.60		UG/L	40.00	45.00	2.00	X
MW-1	W01M2A	3/1/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.20		UG/L	40.00	45.00	2.00	X
MW-19	W19SSA	3/5/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	190.00		UG/L	0.00	10.00	2.00	X
MW-19	W19S2A	7/20/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	260.00		UG/L	0.00	10.00	2.00	X
MW-19	W19S2D	7/20/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	260.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	2/12/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	250.00		UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	9/10/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	240.00		UG/L	0.00	10.00	2.00	X
MW-2	W02M2A	1/20/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	13.00		UG/L	31.00	36.00	2.00	X
MW-2	W02M2A	2/3/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.80		UG/L	31.00	36.00	2.00	X
MW-2	W02M2A	9/3/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	5.80		UG/L	31.00	36.00	2.00	X
MW-23	W23M1A	11/7/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.30	J	UG/L	99.00	109.00	2.00	X
MW-23	W23M1A	3/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.40		UG/L	99.00	109.00	2.00	X
MW-23	W23M1D	3/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.70		UG/L	99.00	109.00	2.00	X
MW-23	W23M1A	9/13/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.10		UG/L	99.00	109.00	2.00	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 JULY 2000

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
MW-25	W25SSA	10/16/1997	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.00		UG/L	0.00	10.00	2.00	X
MW-25	W25SSA	3/17/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	4.10		UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	7/15/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	64.00		UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	2/1/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	210.00		UG/L	0.00	10.00	2.00	X
MW-31	W31SSA	9/15/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	50.00		UG/L	0.00	10.00	2.00	X
MW-31	W31MMA	7/15/1998	8330N	HEXAHYDRO-1,3,5-TRINITRO	280.00		UG/L	29.00	39.00	2.00	X
MW-31	W31MMA	2/2/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	370.00		UG/L	29.00	39.00	2.00	X
MW-31	W31MMA	9/15/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	29.00	39.00	2.00	X
MW-34	W34M2A	2/19/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.20		UG/L	55.00	65.00	2.00	X
MW-37	W37M2A	9/29/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.90		UG/L	28.00	38.00	2.00	X
MW-37	W37M2A	12/29/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.60		UG/L	28.00	38.00	2.00	X
MW-38	W38M3A	5/6/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.50		UG/L	53.00	63.00	2.00	X
MW-38	W38M3A	8/18/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.60		UG/L	53.00	63.00	2.00	X
MW-38	W38M3A	11/10/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.00		UG/L	53.00	63.00	2.00	X
MW-40	W40M1A	9/21/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.80		UG/L	15.50	25.50	2.00	X
MW-40	W40M1D	9/21/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	2.60		UG/L	15.50	25.50	2.00	X
MW-40	W40M1A	12/30/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.00	J	UG/L	15.50	25.50	2.00	X
MW-58	W58SSA	11/23/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	3.70	J	UG/L	0.00	10.00	2.00	X
MW-58	W58SSA	2/15/00	8330N	HEXAHYDRO-1,3,5-TRINITRO	6.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	7/9/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	50.00	J	UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	9/16/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	63.00		UG/L	0.00	10.00	2.00	X
MW-73	W73SSA	11/2/1999	8330N	HEXAHYDRO-1,3,5-TRINITRO	57.00		UG/L	0.00	10.00	2.00	X
MW-76	W76SSA	1/20/00	8330N	HEXAHYDRO-1,3,5-TRINITRO	11.00		UG/L	0.00	10.00	2.00	X
MW-76	W76M2A	1/24/00	8330N	HEXAHYDRO-1,3,5-TRINITRO	31.00		UG/L	35.00	45.00	2.00	X
MW-76	W76M2D	1/24/00	8330N	HEXAHYDRO-1,3,5-TRINITRO	29.00		UG/L	35.00	45.00	2.00	X
MW-77	W77M2A	1/25/00	8330N	HEXAHYDRO-1,3,5-TRINITRO	150.00		UG/L	35.00	45.00	2.00	X
ASPWELL	ASPWELL	7/20/1999	E200.8	LEAD	53.00		UG/L	0.00	0.00	15.00	X
MW-1	W01SSA	9/7/1999	IM40MB	ANTIMONY	6.70	J	UG/L	0.00	10.00	6.00	X
MW-3	W03DDL	3/6/1998	IM40MB	ANTIMONY	13.80	J	UG/L	218.00	223.00	6.00	X
MW-34	W34M2A	8/16/1999	IM40MB	ANTIMONY	6.60	J	UG/L	55.00	65.00	6.00	X
MW-35	W35SSA	8/19/1999	IM40MB	ANTIMONY	6.90	J	UG/L	0.00	10.00	6.00	X
MW-35	W35SSD	8/19/1999	IM40MB	ANTIMONY	13.80	J	UG/L	0.00	10.00	6.00	X
MW-36	W36SSA	8/17/1999	IM40MB	ANTIMONY	6.70	J	UG/L	0.00	10.00	6.00	X
MW-38	W38SSA	8/18/1999	IM40MB	ANTIMONY	7.40		UG/L	0.00	10.00	6.00	X
MW-38	W38M3A	8/18/1999	IM40MB	ANTIMONY	6.60	J	UG/L	53.00	63.00	6.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2000

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
MW-38	W38DDA	8/17/1999	IM40MB	ANTIMONY	6.90	J	UG/L	125.00	135.00	6.00	X
MW-39	W39M1A	8/18/1999	IM40MB	ANTIMONY	7.50		UG/L	87.00	97.00	6.00	X
PPAWSMW-3	PPAWSMW-3	8/12/1999	IM40MB	ANTIMONY	6.00	J	UG/L	0.00	10.00	6.00	X
MW-7	W07M1A	9/7/1999	IM40MB	ARSENIC	52.80		UG/L	67.00	72.00	50.00	X
MW-52	W52M3L	8/27/1999	IM40MB	CADMIUM	12.20		UG/L	26.00	36.00	5.00	X
MW-7	W07M1A	9/7/1999	IM40MB	CHROMIUM, TOTAL	114.00		UG/L	67.00	72.00	100.00	X
MW-2	W02SSA	2/23/1998	IM40MB	LEAD	20.10		UG/L	0.00	10.00	15.00	X
MW-7	W07M1A	9/7/1999	IM40MB	LEAD	40.20		UG/L	67.00	72.00	15.00	X
MW-7	W07M1D	9/7/1999	IM40MB	LEAD	18.30		UG/L	67.00	72.00	15.00	X
MW-13	W13SSA	1/27/1998	IM40MB	MOLYBDENUM	11.20		UG/L	0.00	10.00	10.00	X
MW-13	W13SSL	1/27/1998	IM40MB	MOLYBDENUM	10.40	J	UG/L	0.00	10.00	10.00	X
MW-13	W13DDA	1/26/1998	IM40MB	MOLYBDENUM	26.60		UG/L	140.00	145.00	10.00	X
MW-13	W13DDL	1/26/1998	IM40MB	MOLYBDENUM	30.40		UG/L	140.00	145.00	10.00	X
MW-13	W13DDA	3/11/1999	IM40MB	MOLYBDENUM	11.00		UG/L	140.00	145.00	10.00	X
MW-13	W13DDD	3/11/1999	IM40MB	MOLYBDENUM	12.10	J	UG/L	140.00	145.00	10.00	X
MW-13	W13DDA	9/9/1999	IM40MB	MOLYBDENUM	17.30		UG/L	140.00	145.00	10.00	X
MW-16	W16SSA	3/10/1999	IM40MB	MOLYBDENUM	21.00	J	UG/L	0.00	10.00	10.00	X
MW-16	W16DDA	3/9/1999	IM40MB	MOLYBDENUM	22.20		UG/L	108.00	113.00	10.00	X
MW-16	W16DDD	3/9/1999	IM40MB	MOLYBDENUM	23.20		UG/L	108.00	113.00	10.00	X
MW-16	W16DDA	9/9/1999	IM40MB	MOLYBDENUM	18.00	J	UG/L	108.00	113.00	10.00	X
MW-17	W17M1L	5/18/1999	IM40MB	MOLYBDENUM	12.60		UG/L	97.00	107.00	10.00	X
MW-2	W02SSA	2/23/1998	IM40MB	MOLYBDENUM	72.10		UG/L	0.00	10.00	10.00	X
MW-2	W02SSL	2/23/1998	IM40MB	MOLYBDENUM	63.30		UG/L	0.00	10.00	10.00	X
MW-2	W02SSA	2/1/1999	IM40MB	MOLYBDENUM	26.10	J	UG/L	0.00	10.00	10.00	X
MW-2	W02SSL	2/1/1999	IM40MB	MOLYBDENUM	34.00		UG/L	0.00	10.00	10.00	X
MW-2	W02SSA	9/2/1999	IM40MB	MOLYBDENUM	29.00		UG/L	0.00	10.00	10.00	X
MW-2	W02SSL	9/2/1999	IM40MB	MOLYBDENUM	27.10		UG/L	0.00	10.00	10.00	X
MW-2	W02DDA	2/2/1999	IM40MB	MOLYBDENUM	25.60		UG/L	287.00	295.00	10.00	X
MW-2	W02DDL	2/2/1999	IM40MB	MOLYBDENUM	26.30	J	UG/L	287.00	295.00	10.00	X
MW-2	W02DDA	9/3/1999	IM40MB	MOLYBDENUM	12.80		UG/L	287.00	295.00	10.00	X
MW-46	W46M2A	3/30/1999	IM40MB	MOLYBDENUM	48.90		UG/L	55.00	65.00	10.00	X
MW-46	W46M2L	3/30/1999	IM40MB	MOLYBDENUM	51.00		UG/L	55.00	65.00	10.00	X
MW-46	W46M2A	8/24/1999	IM40MB	MOLYBDENUM	17.40		UG/L	55.00	65.00	10.00	X
MW-46	W46M1A	3/29/1999	IM40MB	MOLYBDENUM	32.80		UG/L	102.00	112.00	10.00	X
MW-46	W46DDA	4/1/1999	IM40MB	MOLYBDENUM	17.20		UG/L	135.00	145.00	10.00	X

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1997 THROUGH JULY 2000

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
MW-47	W47M3A	3/29/1999	IM40MB	MOLYBDENUM	43.10		UG/L	21.00	31.00	10.00	X
MW-47	W47M3L	3/29/1999	IM40MB	MOLYBDENUM	40.50		UG/L	21.00	31.00	10.00	X
MW-47	W47M2A	3/26/1999	IM40MB	MOLYBDENUM	11.00		UG/L	38.00	48.00	10.00	X
MW-48	W48M1A	11/23/1999	IM40MB	MOLYBDENUM	17.90		UG/L	90.00	100.00	10.00	X
MW-5	W05DDA	2/13/1998	IM40MB	MOLYBDENUM	28.30		UG/L	220.00	225.00	10.00	X
MW-5	W05DDL	2/13/1998	IM40MB	MOLYBDENUM	26.60		UG/L	220.00	225.00	10.00	X
MW-50	W50M2A	4/26/1999	IM40MB	MOLYBDENUM	20.60		UG/L	59.00	69.00	10.00	X
MW-50	W50M1A	4/27/1999	IM40MB	MOLYBDENUM	11.80		UG/L	90.00	100.00	10.00	X
MW-52	W52M3A	4/7/1999	IM40MB	MOLYBDENUM	72.60		UG/L	26.00	36.00	10.00	X
MW-52	W52M3L	4/7/1999	IM40MB	MOLYBDENUM	67.60		UG/L	26.00	36.00	10.00	X
MW-52	W52M3A	8/27/1999	IM40MB	MOLYBDENUM	23.40		UG/L	26.00	36.00	10.00	X
MW-52	W52M3L	8/27/1999	IM40MB	MOLYBDENUM	23.10		UG/L	26.00	36.00	10.00	X
MW-52	W52M3L	11/8/1999	IM40MB	MOLYBDENUM	10.50		UG/L	26.00	36.00	10.00	X
MW-52	W52M2A	4/29/1999	IM40MB	MOLYBDENUM	15.30		UG/L	74.00	84.00	10.00	X
MW-52	W52M2L	4/29/1999	IM40MB	MOLYBDENUM	18.50		UG/L	74.00	84.00	10.00	X
MW-52	W52DDA	4/2/1999	IM40MB	MOLYBDENUM	51.10		UG/L	219.00	229.00	10.00	X
MW-52	W52DDL	4/2/1999	IM40MB	MOLYBDENUM	48.90		UG/L	219.00	229.00	10.00	X
MW-52	W52DDA	8/30/1999	IM40MB	MOLYBDENUM	28.30		UG/L	219.00	229.00	10.00	X
MW-52	W52DDL	8/30/1999	IM40MB	MOLYBDENUM	26.80		UG/L	219.00	229.00	10.00	X
MW-52	W52DDA	11/9/1999	IM40MB	MOLYBDENUM	22.70		UG/L	219.00	229.00	10.00	X
MW-53	W53SSA	2/17/1999	IM40MB	MOLYBDENUM	24.90		UG/L	0.00	10.00	10.00	X
MW-53	W53SSL	2/17/1999	IM40MB	MOLYBDENUM	27.60		UG/L	0.00	10.00	10.00	X
MW-53	W53M1A	5/3/1999	IM40MB	MOLYBDENUM	122.00		UG/L	100.00	110.00	10.00	X
MW-53	W53M1L	5/3/1999	IM40MB	MOLYBDENUM	132.00		UG/L	100.00	110.00	10.00	X
MW-53	W53M1A	8/30/1999	IM40MB	MOLYBDENUM	55.20		UG/L	100.00	110.00	10.00	X
MW-53	W53M1L	8/30/1999	IM40MB	MOLYBDENUM	54.10		UG/L	100.00	110.00	10.00	X
MW-53	W53M1A	11/5/1999	IM40MB	MOLYBDENUM	41.20		UG/L	100.00	110.00	10.00	X
MW-53	W53M1L	11/5/1999	IM40MB	MOLYBDENUM	38.20		UG/L	100.00	110.00	10.00	X
MW-53	W53DDA	2/18/1999	IM40MB	MOLYBDENUM	15.90		UG/L	157.00	167.00	10.00	X
MW-53	W53DDL	2/18/1999	IM40MB	MOLYBDENUM	17.40		UG/L	157.00	167.00	10.00	X
MW-53	W53DDA	8/30/1999	IM40MB	MOLYBDENUM	11.50		UG/L	157.00	167.00	10.00	X
MW-54	W54SSA	4/30/1999	IM40MB	MOLYBDENUM	56.70		UG/L	0.00	10.00	10.00	X
MW-54	W54SSL	4/30/1999	IM40MB	MOLYBDENUM	66.20		UG/L	0.00	10.00	10.00	X
MW-54	W54SSA	8/27/1999	IM40MB	MOLYBDENUM	61.40		UG/L	0.00	10.00	10.00	X
MW-54	W54SSA	11/8/1999	IM40MB	MOLYBDENUM	25.50		UG/L	0.00	10.00	10.00	X

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TABLE 3
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1997 THROUGH JULY 2000

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
MW-54	W54M2A	5/4/1999	IM40MB	MOLYBDENUM	11.20		UG/L	58.00	68.00	10.00	X
MW-54	W54M2L	5/4/1999	IM40MB	MOLYBDENUM	13.10		UG/L	58.00	68.00	10.00	X
MW-54	W54M2A	8/27/1999	IM40MB	MOLYBDENUM	43.70		UG/L	58.00	68.00	10.00	X
MW-54	W54M2L	8/27/1999	IM40MB	MOLYBDENUM	43.20		UG/L	58.00	68.00	10.00	X
MW-54	W54M2A	11/8/1999	IM40MB	MOLYBDENUM	14.50		UG/L	58.00	68.00	10.00	X
MW-54	W54M1A	4/30/1999	IM40MB	MOLYBDENUM	11.80		UG/L	80.00	90.00	10.00	X
MW-54	W54DDA	5/5/1999	IM40MB	MOLYBDENUM	17.50		UG/L	126.00	136.00	10.00	X
MW-55	W55SSA	5/17/1999	IM40MB	MOLYBDENUM	15.90		UG/L	0.00	10.00	10.00	X
MW-55	W55M2A	5/14/1999	IM40MB	MOLYBDENUM	21.80		UG/L	60.00	70.00	10.00	X
MW-55	W55M1A	5/13/1999	IM40MB	MOLYBDENUM	12.50		UG/L	90.00	100.00	10.00	X
MW-55	W55DDA	5/13/1999	IM40MB	MOLYBDENUM	22.60		UG/L	120.00	130.00	10.00	X
MW-55	W55DDA	8/30/1999	IM40MB	MOLYBDENUM	14.20		UG/L	120.00	130.00	10.00	X
MW-55	W55DDA	11/8/1999	IM40MB	MOLYBDENUM	11.00		UG/L	120.00	130.00	10.00	X
MW-57	W57SSA	12/21/1999	IM40MB	MOLYBDENUM	15.20		UG/L	0.00	10.00	10.00	X
MW-57	W57SSD	12/21/1999	IM40MB	MOLYBDENUM	16.30		UG/L	0.00	10.00	10.00	X
MW-57	W57SSA	3/22/00	IM40MB	MOLYBDENUM	10.30	J	UG/L	0.00	10.00	10.00	X
MW-57	W57SSD	3/22/00	IM40MB	MOLYBDENUM	10.10	J	UG/L	0.00	10.00	10.00	X
MW-57	W57M3A	12/13/1999	IM40MB	MOLYBDENUM	21.90		UG/L	30.00	40.00	10.00	X
MW-57	W57M2A	3/22/00	IM40MB	MOLYBDENUM	10.80	J	UG/L	60.00	70.00	10.00	X
MW-57	W57DDA	12/13/1999	IM40MB	MOLYBDENUM	18.60		UG/L	125.00	135.00	10.00	X
MW-57	W57DDL	12/13/1999	IM40MB	MOLYBDENUM	17.80		UG/L	125.00	135.00	10.00	X
MW-63	W63SSA	9/21/1999	IM40MB	MOLYBDENUM	12.70		UG/L	0.00	10.00	10.00	X
MW-63	W63SSL	9/21/1999	IM40MB	MOLYBDENUM	11.10		UG/L	0.00	10.00	10.00	X
MW-7	W07M1A	9/7/1999	IM40MB	MOLYBDENUM	10.20		UG/L	67.00	72.00	10.00	X
MW-81	W81M1A	10/13/1999	IM40MB	MOLYBDENUM	24.30		UG/L	99.00	109.00	10.00	X
MW-81	W81M1L	10/13/1999	IM40MB	MOLYBDENUM	22.10		UG/L	99.00	109.00	10.00	X
MW-82	W82DDA	10/13/1999	IM40MB	MOLYBDENUM	15.40		UG/L	96.00	106.00	10.00	X
MW-82	W82DDL	10/13/1999	IM40MB	MOLYBDENUM	14.40		UG/L	96.00	106.00	10.00	X
MW-83	W83DDA	10/12/1999	IM40MB	MOLYBDENUM	13.40		UG/L	105.00	115.00	10.00	X
15MW0002	15MW0002	4/8/1999	IM40MB	SODIUM	37,600.00		UG/L	0.00	10.00	20,000.00	X
90WT0015	90WT0015	4/23/1999	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	2/23/1998	IM40MB	SODIUM	27,200.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02SSL	2/23/1998	IM40MB	SODIUM	26,300.00		UG/L	0.00	10.00	20,000.00	X

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MW-2	W02SSA	2/1/1999	IM40MB	SODIUM	20,300.00		UG/L	0.00	10.00	20,000.00	X
MW-2	W02SSL	2/1/1999	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	W46SSA	8/25/1999	IM40MB	SODIUM	20,600.00		UG/L	0.00	10.00	20,000.00	X
MW-46	W46M2A	3/30/1999	IM40MB	SODIUM	23,300.00		UG/L	55.00	65.00	20,000.00	X
MW-46	W46M2L	3/30/1999	IM40MB	SODIUM	24,400.00		UG/L	55.00	65.00	20,000.00	X
MW-54	W54SSA	8/27/1999	IM40MB	SODIUM	33,300.00		UG/L	0.00	10.00	20,000.00	X
MW-57	W57M2A	12/21/1999	IM40MB	SODIUM	23,500.00		UG/L	60.00	70.00	20,000.00	X
MW-57	W57M2A	3/22/00	IM40MB	SODIUM	24,500.00		UG/L	60.00	70.00	20,000.00	X
MW-57	W57M1A	12/14/1999	IM40MB	SODIUM	23,700.00		UG/L	100.00	110.00	20,000.00	X
SDW261160	WG160L	1/7/1998	IM40MB	SODIUM	20,600.00		UG/L	0.00	0.00	20,000.00	X
SDW261160	WG160A	1/13/1999	IM40MB	SODIUM	27,200.00		UG/L	0.00	0.00	20,000.00	X
SDW261160	WG160L	1/13/1999	IM40MB	SODIUM	28,200.00		UG/L	0.00	0.00	20,000.00	X
03MW0006	03MW0006	4/15/1999	IM40MB	THALLIUM	2.60	J	UG/L	0.00	10.00	2.00	X
03MW0022A	03MW0022A	4/16/1999	IM40MB	THALLIUM	3.90		UG/L	71.00	76.00	2.00	X
03MW0027A	03MW0027A	4/14/1999	IM40MB	THALLIUM	2.00	J	UG/L	64.00	69.00	2.00	X
11MW0004	11MW0004	4/16/1999	IM40MB	THALLIUM	2.30	J	UG/L	0.00	10.00	2.00	X
27MW0020Z	27MW0020Z	4/16/1999	IM40MB	THALLIUM	2.70	J	UG/L	98.00	103.00	2.00	X
90MW0038	90MW0038	4/21/1999	IM40MB	THALLIUM	4.40	J	UG/L	29.00	34.00	2.00	X
90WT0010	WF10XA	1/16/1998	IM40MB	THALLIUM	6.50	J	UG/L	2.00	12.00	2.00	X
LRWS1-4	WL14XA	1/7/1999	IM40MB	THALLIUM	5.20	J	UG/L	107.00	117.00	2.00	X
MW-1	W01SSA	9/7/1999	IM40MB	THALLIUM	2.90	J	UG/L	0.00	10.00	2.00	X
MW-18	W18SSA	3/12/1999	IM40MB	THALLIUM	2.30	J	UG/L	0.00	10.00	2.00	X
MW-19	W19SSA	9/10/1999	IM40MB	THALLIUM	3.80	J	UG/L	0.00	10.00	2.00	X
MW-19	W19DDL	2/11/1999	IM40MB	THALLIUM	3.10	J	UG/L	251.00	256.00	2.00	X
MW-21	W21SSA	10/24/1997	IM40MB	THALLIUM	6.90	J	UG/L	0.00	10.00	2.00	X
MW-21	W21M2A	11/1/1999	IM40MB	THALLIUM	4.00	J	UG/L	58.00	68.00	2.00	X
MW-23	W23SSA	9/14/1999	IM40MB	THALLIUM	4.70	J	UG/L	0.00	10.00	2.00	X
MW-25	W25SSA	9/14/1999	IM40MB	THALLIUM	5.30	J	UG/L	0.00	10.00	2.00	X
MW-37	W37M2A	12/29/1999	IM40MB	THALLIUM	4.90	J	UG/L	28.00	38.00	2.00	X
MW-38	W38M4A	8/18/1999	IM40MB	THALLIUM	2.80	J	UG/L	15.00	25.00	2.00	X
MW-38	W38M2A	5/11/1999	IM40MB	THALLIUM	4.90	J	UG/L	70.00	80.00	2.00	X

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MW-41	W41M2A	4/2/1999	IM40MB	THALLIUM	2.50	J	UG/L	69.00	79.00	2.00	X
MW-42	W42M2A	11/19/1999	IM40MB	THALLIUM	4.00	J	UG/L	119.00	129.00	2.00	X
MW-45	W45SSA	5/26/1999	IM40MB	THALLIUM	3.00	J	UG/L	0.00	10.00	2.00	X
MW-46	W46DDA	11/2/1999	IM40MB	THALLIUM	5.10	J	UG/L	135.00	145.00	2.00	X
MW-47	W47M3A	8/25/1999	IM40MB	THALLIUM	3.20	J	UG/L	21.00	31.00	2.00	X
MW-47	W47M2A	3/26/1999	IM40MB	THALLIUM	3.20	J	UG/L	38.00	48.00	2.00	X
MW-47	W47M2A	8/25/1999	IM40MB	THALLIUM	4.00	J	UG/L	38.00	48.00	2.00	X
MW-47	W47M1A	8/24/1999	IM40MB	THALLIUM	2.60	J	UG/L	75.00	85.00	2.00	X
MW-48	W48M3A	2/28/00	IM40MB	THALLIUM	4.20	J	UG/L	29.73	39.73	2.00	X
MW-49	W49SSA	11/19/1999	IM40MB	THALLIUM	4.70	J	UG/L	0.00	10.00	2.00	X
MW-51	W51M3A	8/25/1999	IM40MB	THALLIUM	4.30	J	UG/L	29.00	39.00	2.00	X
MW-52	W52SSA	8/26/1999	IM40MB	THALLIUM	3.60	J	UG/L	0.00	10.00	2.00	X
MW-52	W52SSA	11/18/1999	IM40MB	THALLIUM	4.30	J	UG/L	0.00	10.00	2.00	X
MW-52	W52M3L	4/7/1999	IM40MB	THALLIUM	3.60	J	UG/L	26.00	36.00	2.00	X
MW-52	W52DDA	4/2/1999	IM40MB	THALLIUM	2.80	J	UG/L	219.00	229.00	2.00	X
MW-52	W52DDL	4/2/1999	IM40MB	THALLIUM	2.60	J	UG/L	219.00	229.00	2.00	X
MW-52	W52DDA	8/30/1999	IM40MB	THALLIUM	3.80	J	UG/L	219.00	229.00	2.00	X
MW-53	W53M1A	11/5/1999	IM40MB	THALLIUM	3.40	J	UG/L	100.00	110.00	2.00	X
MW-54	W54SSA	11/8/1999	IM40MB	THALLIUM	7.40	J	UG/L	0.00	10.00	2.00	X
MW-54	W54M1A	8/30/1999	IM40MB	THALLIUM	2.80	J	UG/L	80.00	90.00	2.00	X
MW-54	W54M1A	11/5/1999	IM40MB	THALLIUM	3.90	J	UG/L	80.00	90.00	2.00	X
MW-55	W55M1A	8/31/1999	IM40MB	THALLIUM	2.50	J	UG/L	90.00	100.00	2.00	X
MW-57	W57M2A	3/22/00	IM40MB	THALLIUM	4.10	J	UG/L	60.00	70.00	2.00	X
MW-64	W64M1A	2/7/00	IM40MB	THALLIUM	4.10	J	UG/L	37.00	47.00	2.00	X
MW-7	W07MMA	2/23/1999	IM40MB	THALLIUM	4.10	J	UG/L	67.00	72.00	2.00	X
MW-7	W07M1A	9/7/1999	IM40MB	THALLIUM	26.20		UG/L	67.00	72.00	2.00	X
MW-7	W07M1D	9/7/1999	IM40MB	THALLIUM	12.70		UG/L	67.00	72.00	2.00	X
MW-7	W07M2L	2/5/1998	IM40MB	THALLIUM	6.60	J	UG/L	137.00	142.00	2.00	X
MW-7	W07M2A	2/24/1999	IM40MB	THALLIUM	4.40	J	UG/L	137.00	142.00	2.00	X
MW-72	W72SSA	5/27/1999	IM40MB	THALLIUM	4.00		UG/L	0.00	10.00	2.00	X
MW-83	W83SSA	1/13/00	IM40MB	THALLIUM	3.60	J	UG/L	0.00	10.00	2.00	X
MW-84	W84SSA	10/21/1999	IM40MB	THALLIUM	3.20	J	UG/L	0.00	10.00	2.00	X
PPAWSMW-1	PPAWSMW-1	6/22/1999	IM40MB	THALLIUM	3.10	J	UG/L	10.00	20.00	2.00	X
SMR-2	WSMR2A	3/25/1999	IM40MB	THALLIUM	2.00	J	UG/L	0.00	10.00	2.00	X
95-14	W9514A	9/28/1999	IM40MB	ZINC	2,430.00		UG/L	90.00	120.00	2,000.00	X

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TABLE 3
VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2000

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
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	1/25/1999	IM40MB	ZINC	3,980.00		UG/L	187.00	202.00	2,000.00	X
LRWS5-1	WL51XL	1/25/1999	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	1/28/1999	IM40MB	ZINC	2,240.00		UG/L	184.00	199.00	2,000.00	X
LRWS6-1	WL61XL	1/28/1999	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	1/22/1999	IM40MB	ZINC	4,160.00		UG/L	186.00	201.00	2,000.00	X
LRWS7-1	WL71XL	1/22/1999	IM40MB	ZINC	4,100.00		UG/L	186.00	201.00	2,000.00	X
MW-41	W41M1A	8/19/1999	OC21B	2,6-DINITROTOLUENE	5.00	J	UG/L	110.00	120.00	5.00	X
03MW0122A	WS122A	9/30/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	12.00		UG/L	1.00	11.00	6.00	X
11MW0003	WF143A	2/25/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00		UG/L	0.00	0.00	6.00	X
11MW0003	WF143A	9/30/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	24.00		UG/L	0.00	0.00	6.00	X
15MW0004	15MW0004	4/9/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	6.00		UG/L	0.00	10.00	6.00	X
15MW0008	15MW0008D	4/12/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	25.00	J	UG/L	0.00	0.00	6.00	X
28MW0106	WL28XA	2/19/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	18.00	J	UG/L	0.00	10.00	6.00	X
28MW0106	WL28XA	3/23/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	26.00		UG/L	0.00	10.00	6.00	X
58MW0002	WC2XXA	2/26/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	36.00		UG/L	0.00	0.00	6.00	X
58MW0005E	WC5EXA	9/27/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	0.00	10.00	6.00	X
58MW0006E	WC6EXA	10/3/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	59.00		UG/L	0.00	10.00	6.00	X
58MW0006E	WC6EXD	10/3/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	57.00		UG/L	0.00	10.00	6.00	X
58MW0006E	WC6EXA	1/29/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	6.00		UG/L	0.00	10.00	6.00	X
58MW0007C	WC7CXA	9/28/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	13.00		UG/L	24.00	29.00	6.00	X
90MW0054	WF12XA	10/4/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	13.00	J	UG/L	95.00	100.00	6.00	X

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VALIDATED DETECTS EXCEEDING MCLs OR HEALTH ADVISORY LIMITS
1997 THROUGH JULY 2000

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
90WT0003	WF03XA	9/30/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	58.00		UG/L	0.00	10.00	6.00	X
90WT0005	WF05XA	1/13/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	47.00		UG/L	0.00	10.00	6.00	X
90WT0013	WF13XA	1/16/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	34.00		UG/L	2.00	12.00	6.00	X
90WT0013	WF13XA	1/14/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	16.00		UG/L	2.00	12.00	6.00	X
95-14	W9514A	9/28/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	22.00		UG/L	90.00	120.00	6.00	X
97-1	W9701A	11/19/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	54.00	J	UG/L	62.00	72.00	6.00	X
97-1	W9701D	11/19/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	28.00	J	UG/L	62.00	72.00	6.00	X
97-2	W9702A	11/20/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00		UG/L	53.00	63.00	6.00	X
97-3	W9703A	11/21/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	73.00	J	UG/L	36.00	46.00	6.00	X
97-5	W9705A	11/20/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	15.00		UG/L	76.00	86.00	6.00	X
BHW215083	WG083A	11/26/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	13.00		UG/L	0.00	0.00	6.00	X
LRWS1-4	WL14XA	10/6/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	78.00	J	UG/L	107.00	117.00	6.00	X
LRWS2-3	WL23XA	11/21/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	20.00	J	UG/L	68.00	83.00	6.00	X
LRWS2-6	WL26XA	10/20/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	21.00		UG/L	75.00	90.00	6.00	X
LRWS2-6	WL26XA	10/4/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00	J	UG/L	75.00	90.00	6.00	X
LRWS4-1	WL41XA	11/24/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	100.00		UG/L	66.00	91.00	6.00	X
LRWS5-1	WL51XA	11/25/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00		UG/L	187.00	202.00	6.00	X
MW-10	W10SSA	9/16/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	39.00		UG/L	0.00	10.00	6.00	X
MW-11	W11SSA	11/6/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	33.00	J	UG/L	0.00	10.00	6.00	X
MW-11	W11SSD	11/6/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	23.00	J	UG/L	0.00	10.00	6.00	X
MW-12	W12SSA	11/6/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	28.00		UG/L	0.00	10.00	6.00	X
MW-14	W14SSA	11/4/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	14.00		UG/L	0.00	10.00	6.00	X
MW-16	W16SSA	11/17/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	28.00		UG/L	0.00	10.00	6.00	X
MW-16	W16DDA	11/17/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	43.00		UG/L	108.00	113.00	6.00	X
MW-17	W17SSD	11/10/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	120.00	J	UG/L	0.00	10.00	6.00	X
MW-17	W17DDA	11/11/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	42.00		UG/L	197.00	207.00	6.00	X
MW-18	W18SSA	10/10/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	36.00		UG/L	0.00	10.00	6.00	X
MW-18	W18DDA	9/10/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	11.00		UG/L	223.00	233.00	6.00	X
MW-19	W19DDA	3/4/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00		UG/L	251.00	256.00	6.00	X
MW-2	W02M2A	1/20/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	24.00		UG/L	31.00	36.00	6.00	X
MW-2	W02M1A	1/21/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	10.00	J	UG/L	73.00	78.00	6.00	X
MW-2	W02DDA	2/2/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00		UG/L	287.00	295.00	6.00	X
MW-20	W20SSA	11/7/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	280.00		UG/L	0.00	10.00	6.00	X
MW-21	W21M2A	4/1/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	58.00	68.00	6.00	X
MW-22	W22SSA	11/24/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	96.00		UG/L	0.00	10.00	6.00	X

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1997 THROUGH JULY 2000

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MW-22	W22SSA	9/20/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	18.00		UG/L	0.00	10.00	6.00	X
MW-23	W23SSA	10/27/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	24.00		UG/L	0.00	10.00	6.00	X
MW-23	W23M3A	11/13/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	10.00		UG/L	153.00	163.00	6.00	X
MW-23	W23M3D	11/13/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	13.00		UG/L	153.00	163.00	6.00	X
MW-24	W24SSA	11/14/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	0.00	10.00	6.00	X
MW-27	W27SSA	9/17/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00		UG/L	0.00	10.00	6.00	X
MW-28	W28SSA	11/3/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	11.00		UG/L	0.00	10.00	6.00	X
MW-28	W28SSA	9/17/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	150.00	J	UG/L	0.00	10.00	6.00	X
MW-29	W29SSA	11/3/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	16.00		UG/L	0.00	10.00	6.00	X
MW-29	W29SSA	9/17/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	20.00		UG/L	0.00	10.00	6.00	X
MW-36	W36M2A	8/17/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	59.00	69.00	6.00	X
MW-38	W38M3A	5/6/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	15.00		UG/L	53.00	63.00	6.00	X
MW-4	W04SSA	11/4/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	30.00		UG/L	0.00	10.00	6.00	X
MW-41	W41M2A	11/12/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00		UG/L	69.00	79.00	6.00	X
MW-43	W43M1A	5/26/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	6.00		UG/L	93.00	103.00	6.00	X
MW-44	W44M1A	9/20/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	14.00		UG/L	55.00	65.00	6.00	X
MW-45	W45M1A	5/24/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	37.00		UG/L	98.00	108.00	6.00	X
MW-46	W46M1A	11/1/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	6.00	J	UG/L	102.00	112.00	6.00	X
MW-46	W46DDA	11/2/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	14.00	J	UG/L	135.00	145.00	6.00	X
MW-47	W47M1A	8/24/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	14.00		UG/L	75.00	85.00	6.00	X
MW-47	W47DDA	8/24/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	16.00		UG/L	100.00	110.00	6.00	X
MW-49	W49SSA	3/1/00	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	290.00		UG/L	0.00	10.00	6.00	X
MW-5	W05DDA	2/13/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	9.00	J	UG/L	220.00	225.00	6.00	X
MW-52	W52M3A	8/27/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	7.00	J	UG/L	26.00	36.00	6.00	X
MW-53	W53M1A	8/30/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	31.00		UG/L	100.00	110.00	6.00	X
MW-53	W53DDA	2/18/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	18.00		UG/L	157.00	167.00	6.00	X
MW-55	W55DDA	5/13/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	8.00		UG/L	120.00	130.00	6.00	X
MW-57	W57SSA	12/21/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	3,300.00	J	UG/L	0.00	10.00	6.00	X
MW-57	W57DDA	12/13/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	95.00		UG/L	125.00	135.00	6.00	X
MW-7	W07SSA	10/31/1997	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	10.00		UG/L	0.00	10.00	6.00	X
MW-70	W70M1A	10/27/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	10.00		UG/L	130.00	140.00	6.00	X
MW-84	W84DDA	3/3/00	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	30.00		UG/L	151.00	161.00	6.00	X
RW-1	WRW1XA	2/18/1998	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	59.00		UG/L	0.00	9.00	6.00	X
RW-1	WRW1XD	10/6/1999	OC21B	BIS(2-ETHYLHEXYL) PHTHAL	11.00	J	UG/L	0.00	9.00	6.00	X
90MW0003	WF03MA	10/7/1999	OC21B	NAPHTHALENE	33.00		UG/L	60.00	65.00	20.00	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 JULY 2000

LOCID/WELL ID	OGDEN_ID	SAMPLED	METHOD	OGDEN_ANALYTE	CONC.	FLAG	UNITS	BWTS	BWTE	MCL/HA	>MCL/HA
MW-45	W45SSA	5/26/1999	OC21B	NAPHTHALENE	24.00		UG/L	0.00	10.00	20.00	X
MW-45	W45SSA	11/16/1999	OC21B	NAPHTHALENE	27.00		UG/L	0.00	10.00	20.00	X
90MW0003	WF03MA	10/7/1999	OC21V	1,2-DICHLOROETHANE	5.00		UG/L	60.00	65.00	5.00	X
03MW0007A	03MW0007A	4/13/1999	OC21V	TETRACHLOROETHYLENE(P	6.00		UG/L	21.00	26.00	5.00	X
03MW0014A	03MW0014A	4/13/1999	OC21V	TETRACHLOROETHYLENE(P	8.00		UG/L	38.00	43.00	5.00	X
03MW0020	03MW0020	4/14/1999	OC21V	TETRACHLOROETHYLENE(P	12.00		UG/L	36.00	41.00	5.00	X
MW-45	W45SSA	11/16/1999	OC21V	TOLUENE	1,000.00		UG/L	0.00	10.00	1,000.00	X
27MW0017B	27MW0017B	4/30/1999	OC21V	VINYL CHLORIDE	2.00		UG/L	21.00	26.00	2.00	X
PPAWSMW-1	PPAWSMW-1	6/22/1999	OL21P	DIELDRIN	3.00		UG/L	10.00	20.00	0.50	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 4
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 6/16/00-7/31/00

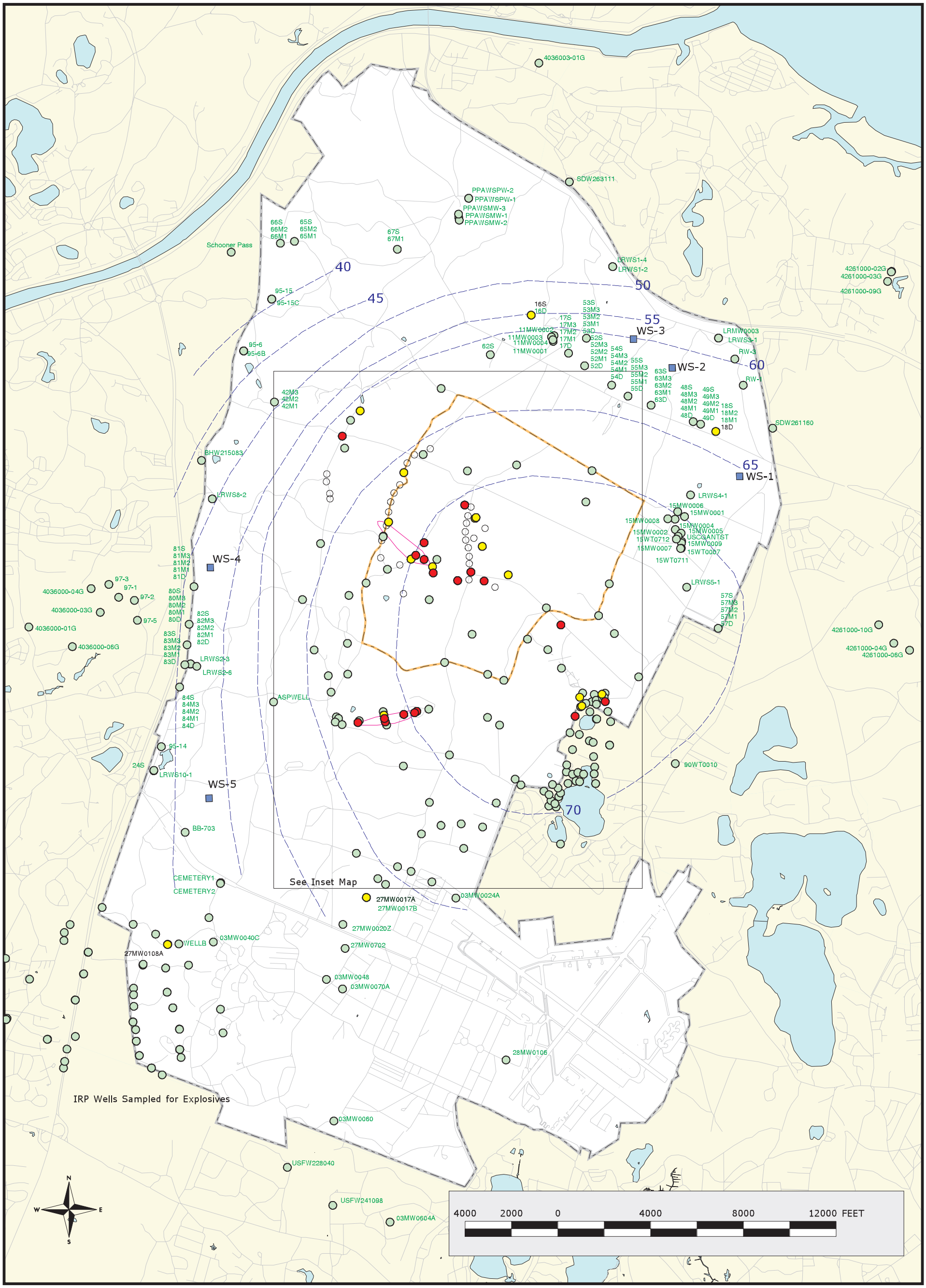
OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
HDJ230MM	HDJ230MM	7/14/00	CRATER GRAB	0.00	0.25			8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G110DNA	MW-110	7/6/00	PROFILE	310.00	310.00	134.50	134.50	8330N	2,6-DINITROTOLUENE	NO
G110DNA	MW-110	7/6/00	PROFILE	310.00	310.00	134.50	134.50	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G110DNA	MW-110	7/6/00	PROFILE	310.00	310.00	134.50	134.50	8330N	NITROGLYCERIN	NO
G110DNA	MW-110	7/6/00	PROFILE	310.00	310.00	134.50	134.50	8330N	PICRIC ACID	NO
G110DOA	MW-110	7/6/00	PROFILE	320.00	320.00	144.50	144.50	8330N	2,4,6-TRINITROTOLUENE	YES
G110DOA	MW-110	7/6/00	PROFILE	320.00	320.00	144.50	144.50	8330N	2,6-DINITROTOLUENE	NO
G110DOA	MW-110	7/6/00	PROFILE	320.00	320.00	144.50	144.50	8330N	NITROGLYCERIN	NO
G110DOA	MW-110	7/6/00	PROFILE	320.00	320.00	144.50	144.50	8330N	PICRIC ACID	NO
G110DOD	MW-110	7/6/00	PROFILE	320.00	320.00	144.50	144.50	8330N	2,6-DINITROTOLUENE	NO
G110DOD	MW-110	7/6/00	PROFILE	320.00	320.00	144.50	144.50	8330N	NITROGLYCERIN	NO
G110DOD	MW-110	7/6/00	PROFILE	320.00	320.00	144.50	144.50	8330N	PICRIC ACID	NO
G110DPA	MW-110	7/6/00	PROFILE	330.00	330.00	154.50	154.50	8330N	2,6-DINITROTOLUENE	YES
G110DPA	MW-110	7/6/00	PROFILE	330.00	330.00	154.50	154.50	8330N	PICRIC ACID	NO
G110DQA	MW-110	7/6/00	PROFILE	340.00	340.00	164.50	164.50	8330N	2,6-DINITROTOLUENE	NO
G110DQA	MW-110	7/6/00	PROFILE	340.00	340.00	164.50	164.50	8330N	4-NITROTOLUENE	NO
G110DQA	MW-110	7/6/00	PROFILE	340.00	340.00	164.50	164.50	8330N	PICRIC ACID	NO
G110DRA	MW-110	7/6/00	PROFILE	350.00	350.00	174.50	174.50	8330N	2,6-DINITROTOLUENE	NO
G110DRA	MW-110	7/6/00	PROFILE	350.00	350.00	174.50	174.50	8330N	2-NITROTOLUENE	NO
G110DRA	MW-110	7/6/00	PROFILE	350.00	350.00	174.50	174.50	8330N	3-NITROTOLUENE	NO
G110DRA	MW-110	7/6/00	PROFILE	350.00	350.00	174.50	174.50	8330N	4-NITROTOLUENE	NO
G111DAA	MW-111	7/18/00	PROFILE	140.00	140.00	2.90	2.90	8330N	2,6-DINITROTOLUENE	NO
G111DAA	MW-111	7/18/00	PROFILE	140.00	140.00	2.90	2.90	8330N	PICRIC ACID	NO
G111DBA	MW-111	7/18/00	PROFILE	150.00	150.00	12.90	12.90	8330N	PICRIC ACID	NO
G111DCA	MW-111	7/18/00	PROFILE	160.00	160.00	22.90	22.90	8330N	NITROGLYCERIN	NO
G111DDA	MW-111	7/18/00	PROFILE	170.00	170.00	32.90	32.90	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G111DDA	MW-111	7/18/00	PROFILE	170.00	170.00	32.90	32.90	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G111DEA	MW-111	7/18/00	PROFILE	180.00	180.00	42.90	42.90	8330N	NITROGLYCERIN	NO
G111DED	MW-111	7/18/00	PROFILE	180.00	180.00	42.90	42.90	8330N	NITROGLYCERIN	NO
G111DFA	MW-111	7/18/00	PROFILE	190.00	190.00	52.90	52.90	8330N	PENTAERYTHRITOL TETRANITR/	NO
G111DGA	MW-111	7/18/00	PROFILE	200.00	200.00	62.90	62.90	8330N	NITROGLYCERIN	NO
G111DGA	MW-111	7/18/00	PROFILE	200.00	200.00	62.90	62.90	8330N	PENTAERYTHRITOL TETRANITR/	NO

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 6/16/00-7/31/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G111DHA	MW-111	7/18/00	PROFILE	210.00	210.00	72.90	72.90	8330N	NITROGLYCERIN	NO

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



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available
- 2.0 ug/l RDX Concentration Contour

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPZone 2001, Units: Meters

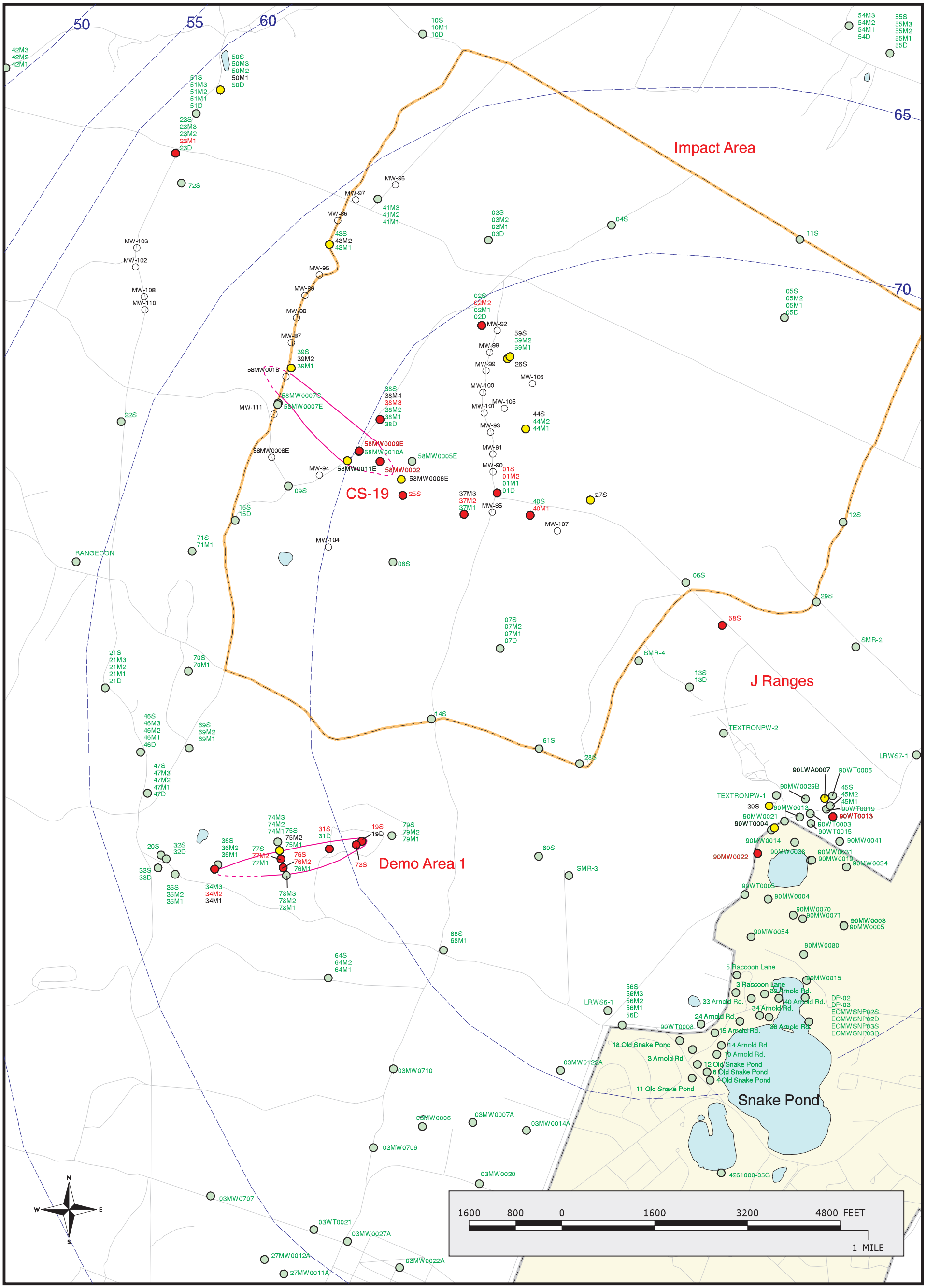
OGDEN August 09, 2000 DRAFT

g:/MMR/al/amls/work/monthly/august2000/exp

Figure 1

Explosives in Groundwater Compared to MCL/HAs Validated Data as of 7/28/00

Analyte Group
1



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available
- 2.0 ug/l RDX Concentration Contour

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPZone 2001, Units: Meters

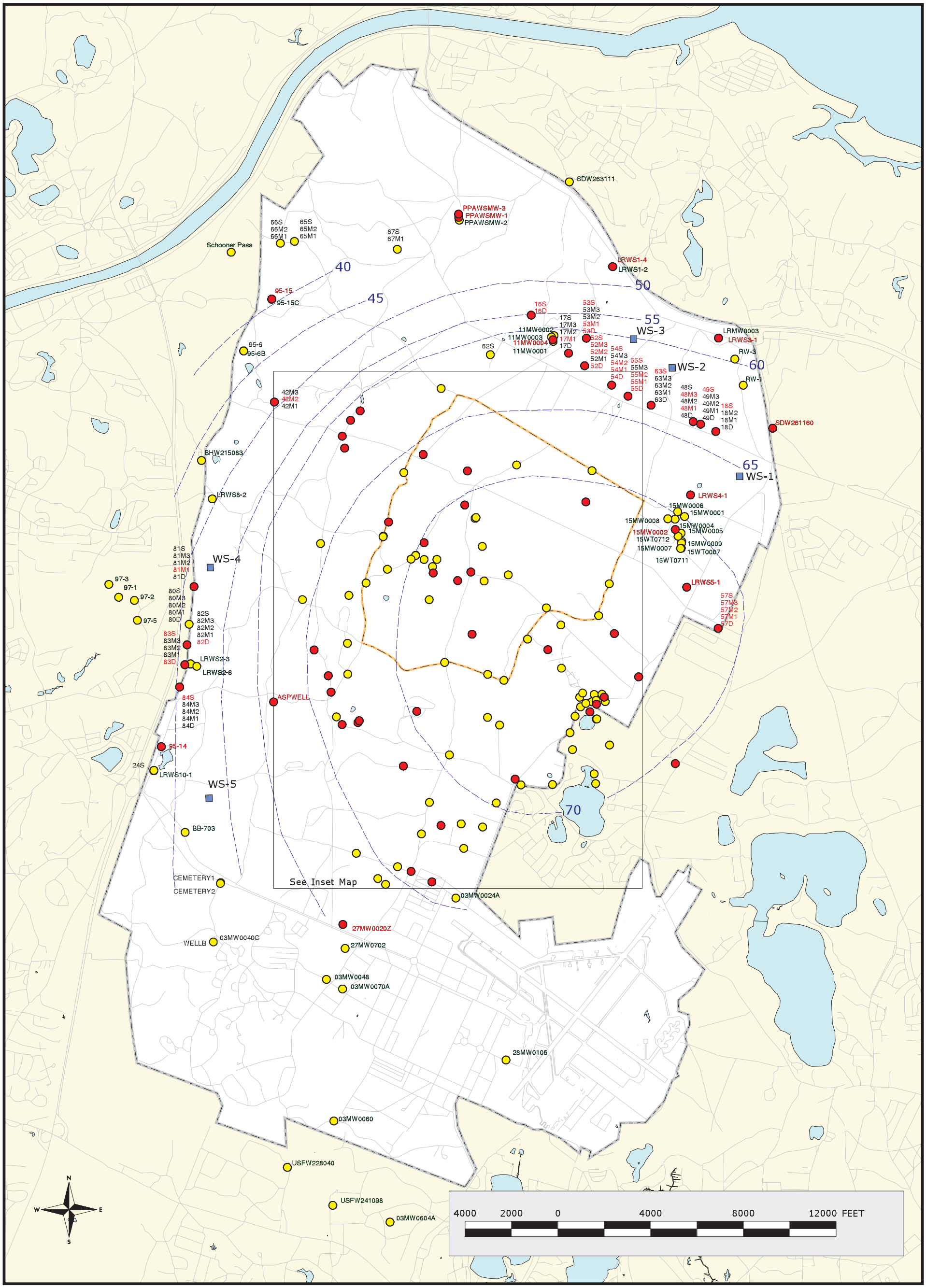
OGDEN August 09, 2000 DRAFT

g:/MMR/al/amls/work/monthly/august2000/exp

Figure 1 - INSET MAP

Explosives in Groundwater Compared to MCL/HAs Validated Data as of 7/28/00

Analyte Group
1



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPZone 2001, Units: Meters

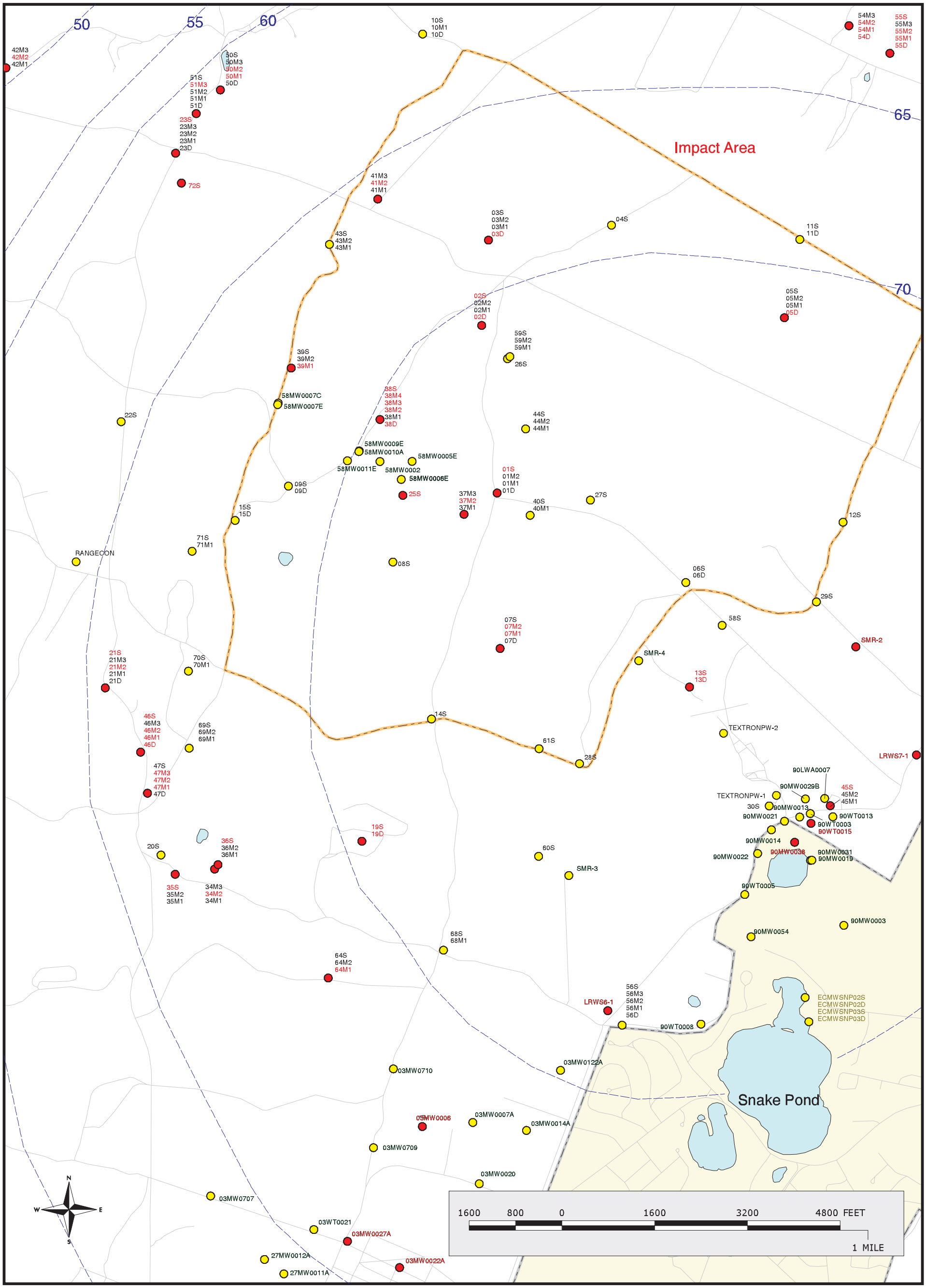
OGDEN August 09, 2000 DRAFT

g:/MMR/al/amls/work/monthly/august2000/metals

Figure 2

Metals in Groundwater Compared to MCL/HAs Validated Data as of 7/28/00

Analyte Group
2



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPZone 2001, Units: Meters

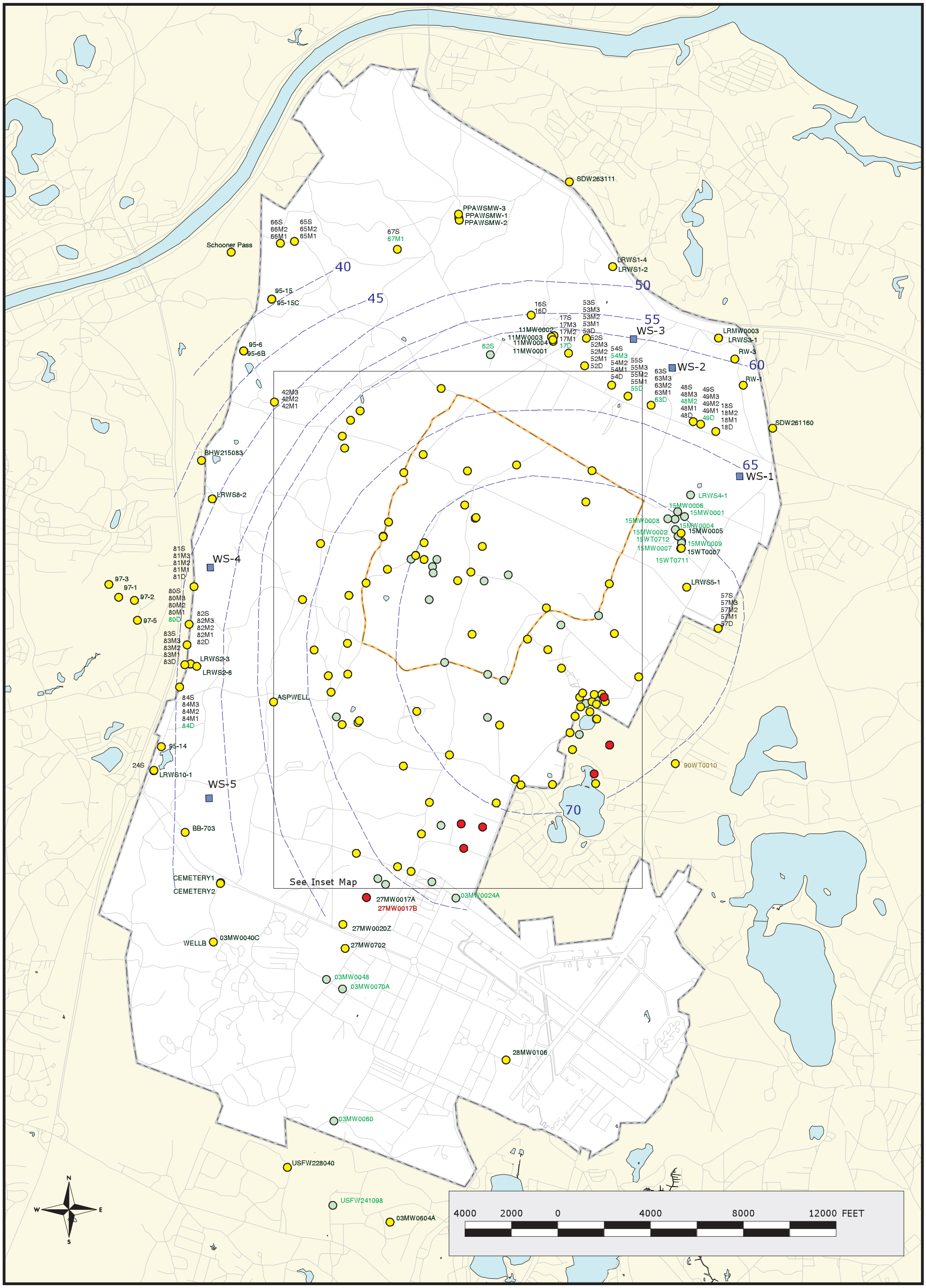
OGDEN August 09, 2000 DRAFT

g:/MMR/al/amls/work/monthly/august2000/metals

Figure 2 - INSET MAP

Metals in Groundwater Compared to MCL/HAs Validated Data as of 7/28/00

Analyte Group
2



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPZone 2001, Units: Meters

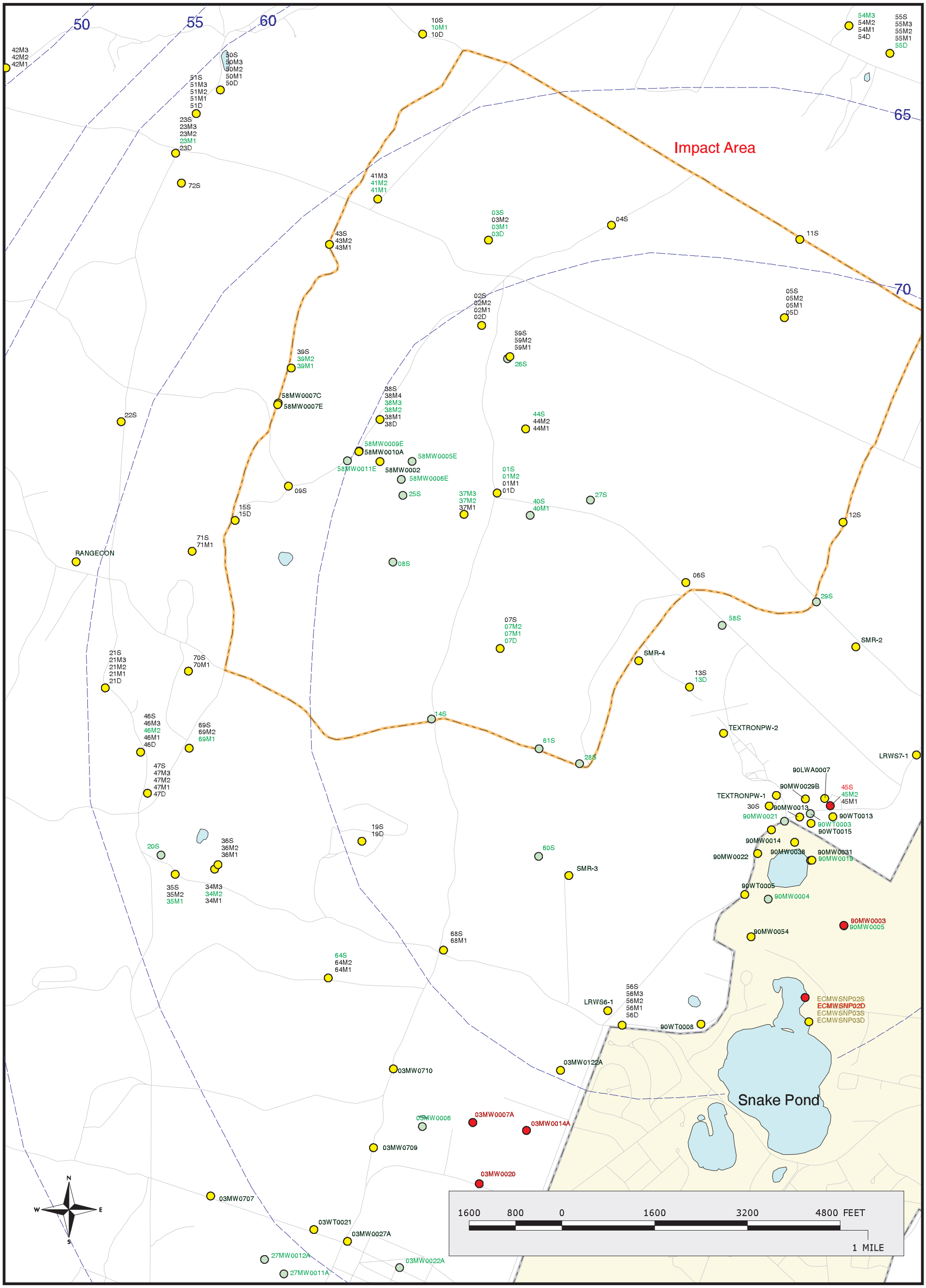
OGDEN August 09, 2000 DRAFT

g:/MMR/al/amls/work/monthly/august2000/voc

Figure 3

VOCs in Groundwater Compared to MCL/HAs Validated Data as of 7/28/00

Analyte Group
3



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPZone 2001, Units: Meters

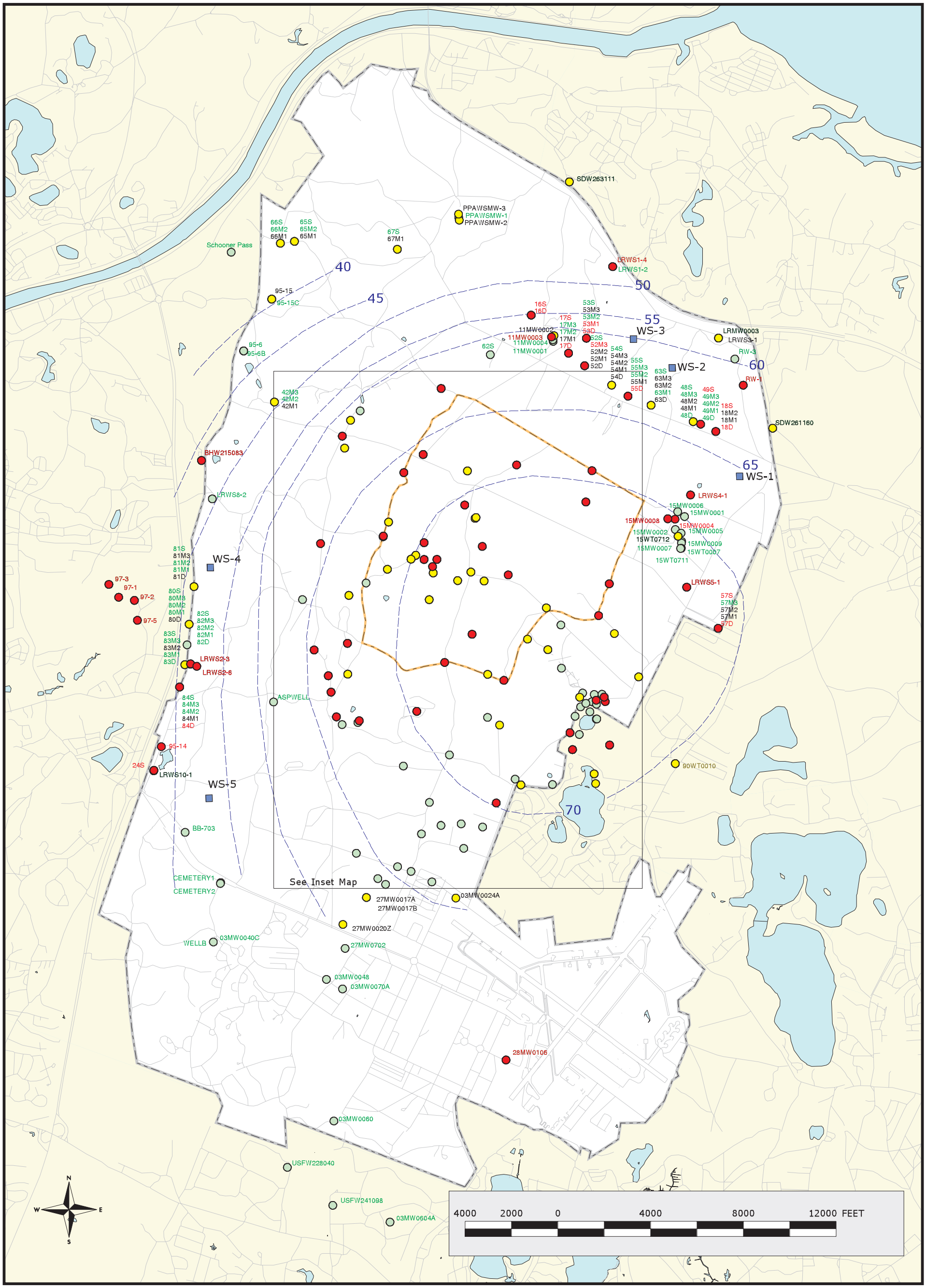
OGDEN August 09, 2000 DRAFT

g:/MMR/al/amls/work/monthly/august2000/voc

Figure 3 - INSET MAP

VOCs in Groundwater Compared to MCL/HAs Validated Data as of 7/28/00

Analyte Group
3



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPZone 2001, Units: Meters

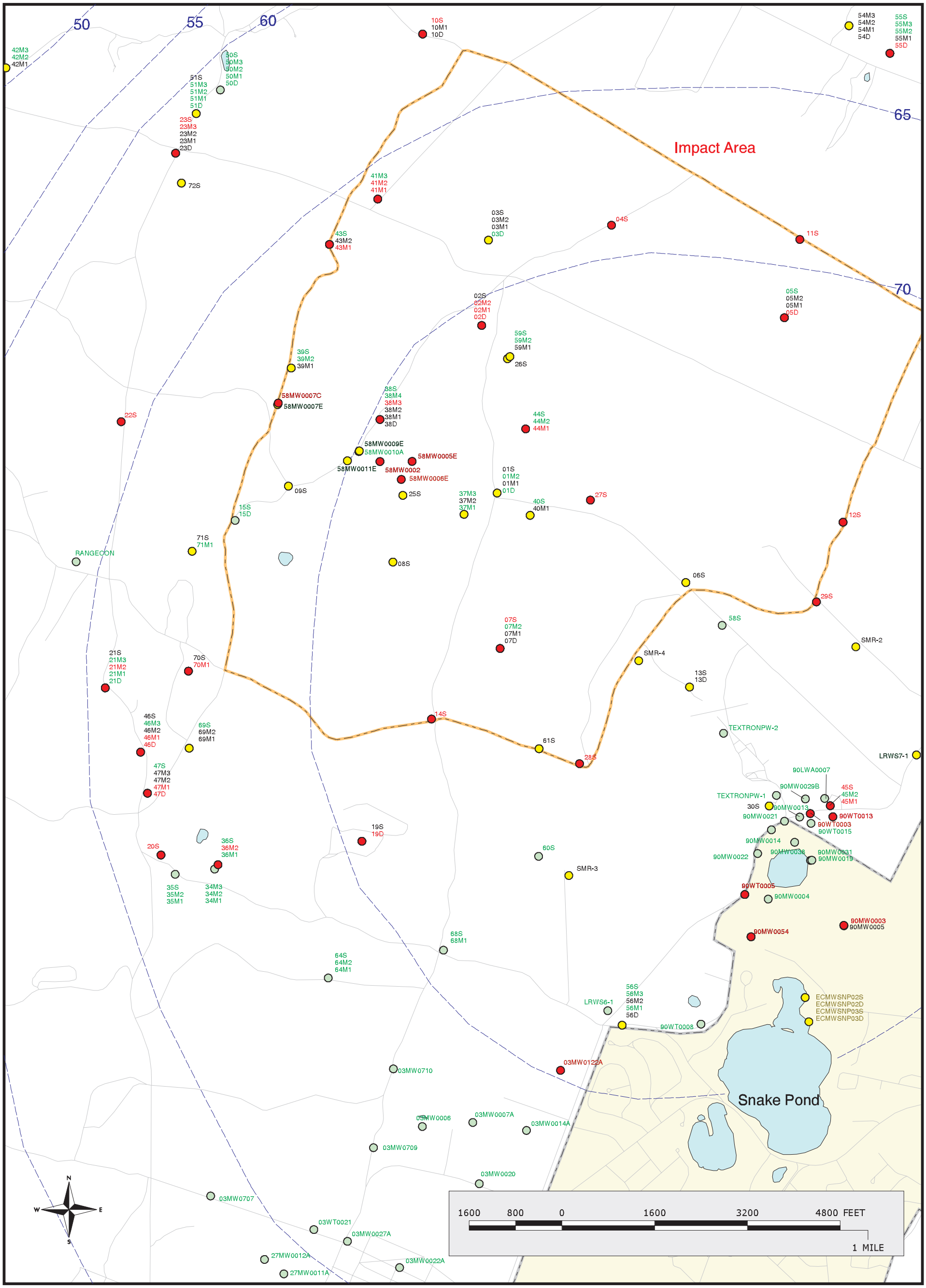
OGDEN August 09, 2000 DRAFT

Figure 4

SVOCs in Groundwater Compared to MCL/HAs Validated Data as of 7/28/00

Analyte Group
4

g:/MMR/al/amls/work/monthly/august2000/svoc



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPZone 2001, Units: Meters

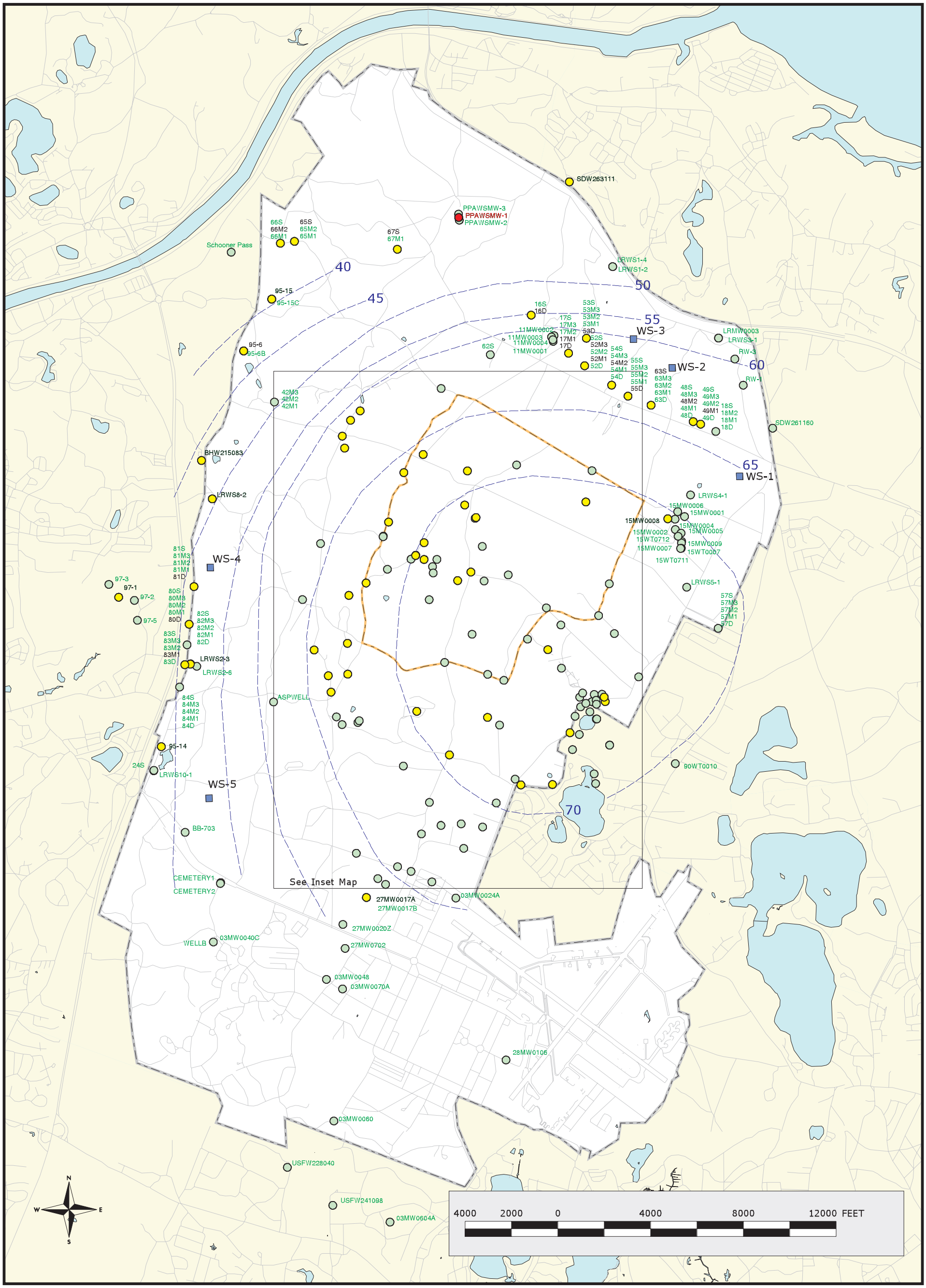
OGDEN August 09, 2000 DRAFT

g:/MMR/al/amls/work/monthly/august2000/svoc

Figure 4 - INSET MAP

SVOCs in Groundwater Compared to MCL/HAs Validated Data as of 7/28/00

Analyte Group
4



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPZone 2001, Units: Meters

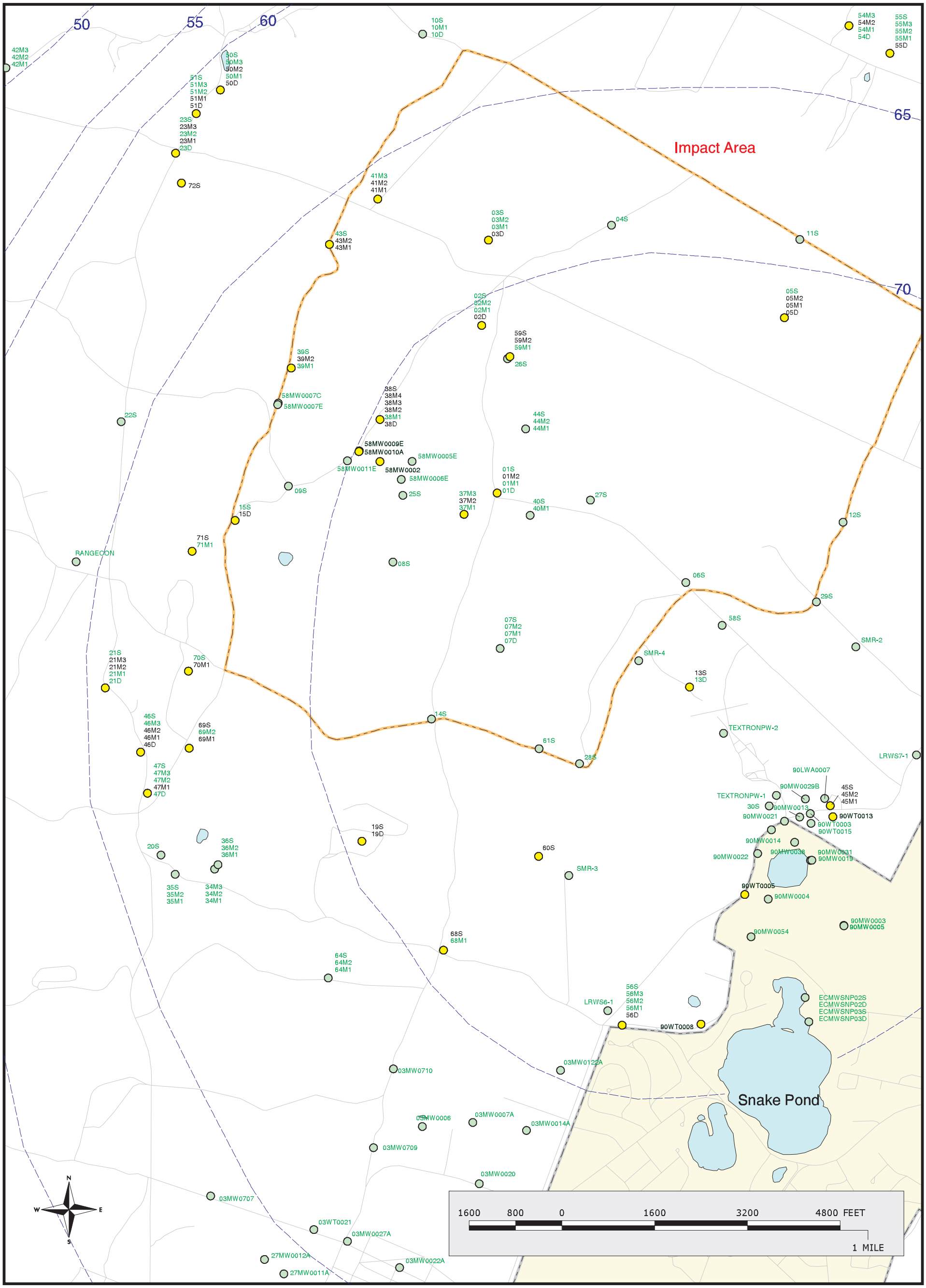
OGDEN August 09, 2000 DRAFT

Figure 5

Herbicides and Pesticides in Groundwater Compared to MCL/HAs Validated Data as of 7/28/00

Analyte Group
5

g:/MMR/al/amls/work/monthly/august2000/pest



LEGEND

- Validated Detection GTE MCL/HA
- Validated Detection LT MCL/HA
- Validated Non-detect
- No Data Available

Sources & Notes

Base from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS
Map Coordinates: Stateplane,
NAD83, FIPZone 2001, Units: Meters

OGDEN August 09, 2000 DRAFT

Figure 5 - INSET MAP

Herbicides and Pesticides in Groundwater Compared to MCL/HAs Validated Data as of 7/28/00

Analyte Group
5

g:/MMR/al/amls/work/monthly/august2000/pest

Site Characterization (AO1)

Demo Area 1

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
00110	Demo 1 Soil/GW Investigation		0	14OCT99A	23MAR00A
00120	Demo 1 Soil/GW Report Preparation		0	09MAR00A	08JUN00A
00130	Demo 1 Draft Soil/GW Report	YES	0		08JUN00A
00140	Demo 1 Revise Draft Report		38*	09JUN00A	02OCT00
00150	Demo 1 Final Soil/GW Report	YES	0		02OCT00
00160	Demo 1 Geophysics Investigation		0	05JAN00A	15JUN00A
00170	Demo 1 Geophysics Presentation		0		15JUN00A

Central Impact Area

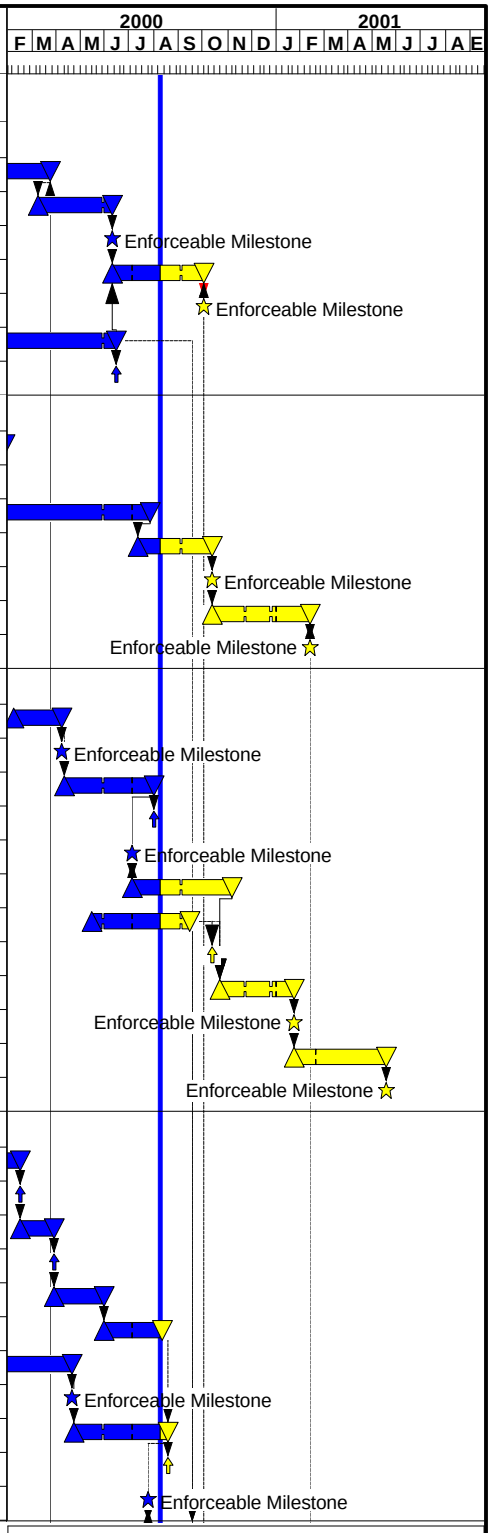
Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
00210	Impact Area Planning		0	23AUG99A	24JAN00A
00220	Impact Area Start Data Collection	YES	0	05JAN00A	
00230	Impact Area Investigation		0	05JAN00A	27JUL00A
00240	Impact Area Report Preparation		46	13JUL00A	12OCT00
00250	Impact Area Draft Report	YES	0		12OCT00
00260	Impact Area Revise Draft Report		83*	13OCT00	12FEB01
00270	Impact Area Final Report	YES	0		12FEB01

J-2 Range

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
00310	J-2 Range Planning		0	08FEB00A	07APR00A
00320	J-2 Range Draft Workplan	YES	0		07APR00A
00330	J-2 Range Rev. Draft Workplan		0	10APR00A	01AUG00A
00340	J-2 Range Final Workplan		0		01AUG00A
00350	J-2 Range Start Data Collection	YES	0	05JUL00A	
00360	J-2 Range Investigation		63	05JUL00A	06NOV00
00365	J-2 Range Geophysics Investigation		27	15MAY00A	15SEP00
00367	J-2 Range Geophysics Presentation		0		13OCT00*
00370	J-2 Range Report Preparation		62	23OCT00	22JAN01
00380	J-2 Range Draft Report	YES	0		22JAN01
00390	J-2 Range Revise Draft Report		82	23JAN01	17MAY01
00391	J-2 Range Final Report	YES	0		17MAY01

J-1/J-3 Range

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
00400	Prepare Response Plan for RDX		0	01DEC99A	16FEB00A
00401	Draft Response Plan for RDX		0		16FEB00A
00402	Revise Response Plan for RDX		0	17FEB00A	29MAR00A
00403	Final Response Plan for RDX		0		29MAR00A
00404	Implement Response Plan for RDX		0	30MAR00A	30MAY00A
00405	Review RP Results & Plan Follow-up		3	31MAY00A	11AUG00
00410	J-1/J-3 Range Planning		0	06DEC99A	21APR00A
00420	J-1/J-3 Range Draft Workplan	YES	0		21APR00A
00430	J-1/J-3 Range Rev. Draft Workplan		8	24APR00A	18AUG00
00440	J-1/J-3 Range Final Workplan		0		18AUG00
00450	J-1/J-3 Range Start Data Cllctn	YES	0	26JUL00A	



Project Start 29FEB00
Project Finish 07NOV02
Data Date 09AUG00
Run Date 10AUG00

Early Bar
Progress Bar

UBER

Sheet 1 of 4

DRAFT

Date	Revision	Checked	Approved

Figure 6. Combined Schedule for MMR IAGS, Munitions Survey, and RRA as of 8/9/00

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
J-1/J-3 Range					
00460	J-1/J-3 Range Investigation		78	26JUL00A	29NOV00
00465	J-1/J-3 Range Geophys. Investigation		27	15MAY00A	15SEP00
00467	J-1/J-3 Range Geophys. Presentation		0		13OCT00*
00470	J-1/J-3 Range Report Preparation		62	13NOV00	12FEB01
00480	J-1/J-3 Range Draft Report	YES	0		12FEB01
00490	J-1/J-3 Range Rev. Draft Report		81	13FEB01	07JUN01
00491	J-1/J-3 Range Final Report	YES	0		07JUN01
Gun/Mortar Positions					
00510	Gun/Mortar Investigation		0	30AUG99A	17APR00A
00515	Gun/Mortar Geophys. Presentation		0		23MAR00A
00520	Gun/Mortar Report Preparation		0	24MAR00A	07JUL00A
00530	Gun/Mortar Draft Report	YES	0		07JUL00A
00540	Gun/Mortar Rev. Draft Report		51	10JUL00A	19OCT00
00550	Gun/Mortar Final Report	YES	0		19OCT00
Trenches, Bunkers, Ground Scars					
00610	Trenches Draft Workplan		0	04OCT99A	
00620	Trenches Rev. Draft Workplan		0	05OCT99A	06DEC99A
00630	Trenches Final Workplan		0		06DEC99A
00640	Trenches Start Data Collection	YES	0	06DEC99A	
00650	Trenches Investigation		0	06DEC99A	13MAR00A
00660	Trenches Report Preparation		0	28FEB00A	23MAY00A
00670	Trenches Draft Report	YES	0		23MAY00A
00680	Trenches Revise Draft Report		28	24MAY00A	18SEP00
00690	Trenches Final Report	YES	0		18SEP00
Mortar Targets					
00710	Mortar Targets Draft Workplan		0	04OCT99A	
00720	Mortar Targets Revise Draft Workplan		0	05OCT99A	03DEC99A
00730	Mortar Targets Final Workplan		0		03DEC99A
00740	Mortar Targets Start Data Cllctn	YES	0	06DEC99A	
00750	Mortar Targets Investigation		0	06DEC99A	23JUN00A
00760	Mortar Targets Report Preparation		0	18MAY00A	02AUG00A
00770	Mortar Targets Draft Report	YES	0		02AUG00A
00780	Mortar Targets Rev. Draft Report		76	03AUG00A	27NOV00
00790	Mortar Targets Final Report	YES	0		27NOV00
Training Areas					
00810	Training Areas Planning		0	01APR99A	22JUL99A
00820	Training Areas Draft Workplan		0		22JUL99A
00830	Training Areas Rev. Draft Workplan		0	23JUL99A	23MAR00A
00840	Training Areas Final Workplan	YES	0		23MAR00A
00850	Training Areas Start Data Cllctn	YES	0	20MAR00A	
00860	Training Areas Investigation		20	20MAR00A	06SEP00

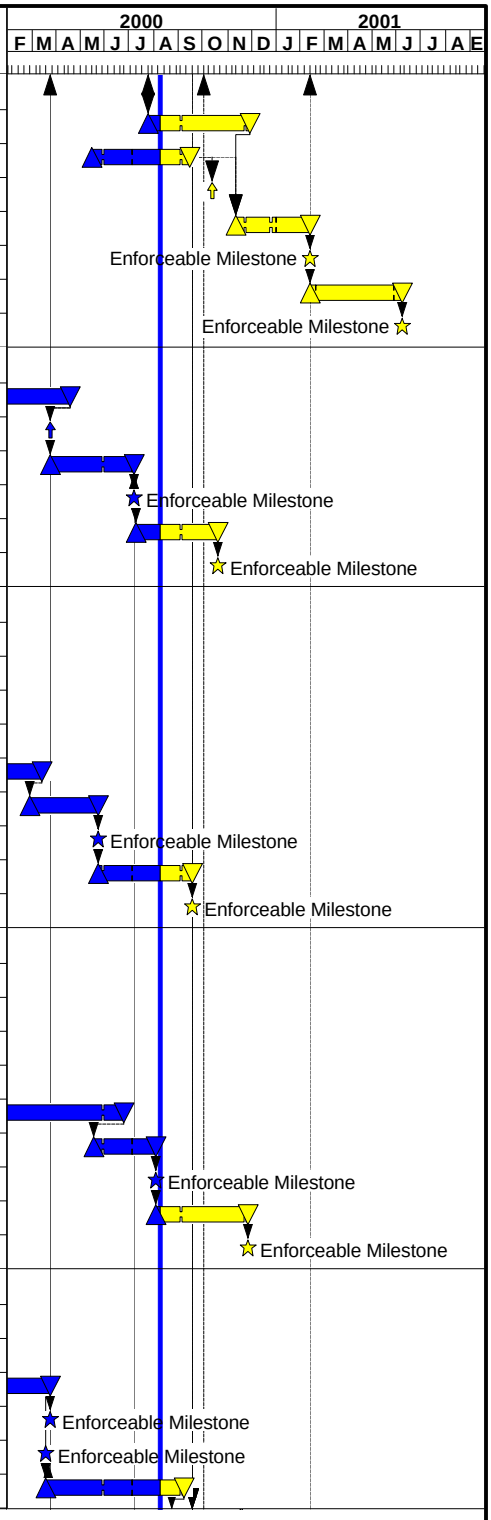


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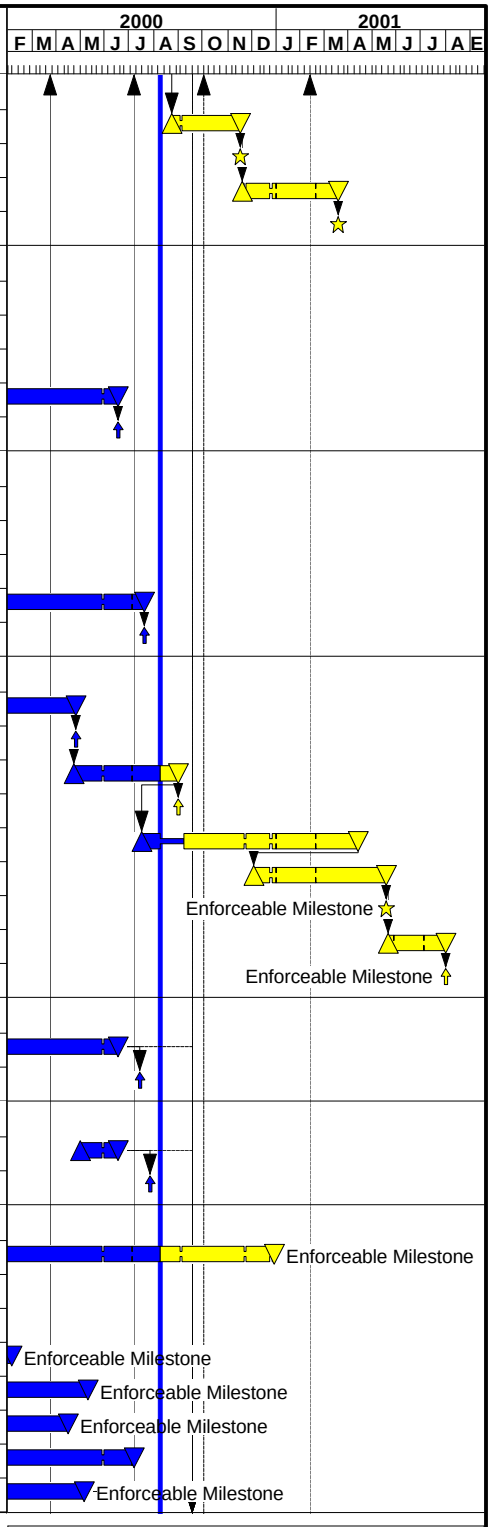
Figure 6. Combined Schedule for MMR IAGS, Munitions Survey, and RRA as of 8/9/00

Activity ID	Activity Description	ENF MILE	REM DUR	Start	Finish
Training Areas					
00870	Training Areas Report Preparation		62	23AUG00	17NOV00
00880	Training Areas Draft Report	YES	0		17NOV00
00890	Training Areas Rev. Draft Report		81	20NOV00	19MAR01
00895	Training Areas Final Report	YES	0		19MAR01
KD/U Ranges					
00910	KD/U Investigation		0	10MAY99A	18OCT99A
00920	KD/U Report Preparation		0	27SEP99A	03NOV99A
00930	KD/U Draft Report		0		03NOV99A
00940	KD/U Revise Draft Report		0	04NOV99A	16JUN00A
00950	KD/U Final Report		0		16JUN00A
J-3 Wetland					
01010	J-3 Wetland Investigation		0	15APR99A	18MAY99A
01020	J-3 Wetland Report Preparation		0	13MAY99A	04NOV99A
01030	J-3 Wetland Draft Report		0		04NOV99A
01040	J-3 Wetland Revise Draft Report		0	05NOV99A	20JUL00A
01050	J-3 Wetland Final Report		0		20JUL00A
High Use Target Area 1					
01110	HUTA Planning		0	10JAN00A	24APR00A
01120	HUTA Draft Workplan		0		24APR00A
01130	HUTA Revise Draft Workplan		17	24APR00A	31AUG00
01140	HUTA Final Workplan		0		31AUG00
01160	HUTA Investigation		151	17JUL00A	13APR01
01170	HUTA Report Preparation		117	04DEC00	18MAY01
01180	HUTA Draft Report	YES	0		18MAY01
01190	HUTA Revise Draft Report		50	21MAY01	31JUL01
01195	HUTA Final Report	YES	0		31JUL01
Water Bodies					
01210	Water Body Geophys. Investig.		0	19NOV99A	16JUN00A
01220	Water Body Geophys. Present.		0		13JUL00A
Slit Trench					
01310	Slit Trench Geophys. Investig.		0	01MAY00A	16JUN00A
01320	Slit Trench Geophys. Present.		0		27JUL00A
Groundwater Monitoring Programs					
08100	Water Supply (Qrtrly & Annual)	YES	99	12JUL99A	29DEC00
08110	Phase I Wells	YES	0	01SEP97A	30NOV99A
08120	Far Field Group 1 Wells	YES	0	17FEB99A	22NOV99A
08130	Supplemental IRP Wells	YES	0	08APR99A	04FEB00A
08140	Phase II (a) Wells	YES	0	30MAR99A	11MAY00A
08150	Far Field Group 2 Wells	YES	0	21SEP99A	14APR00A
08160	Far Field New Group 2 Wells		0	21OCT99A	07JUL00A
08170	Gun/Mortar Position Wells	YES	0	01NOV99A	04MAY00A



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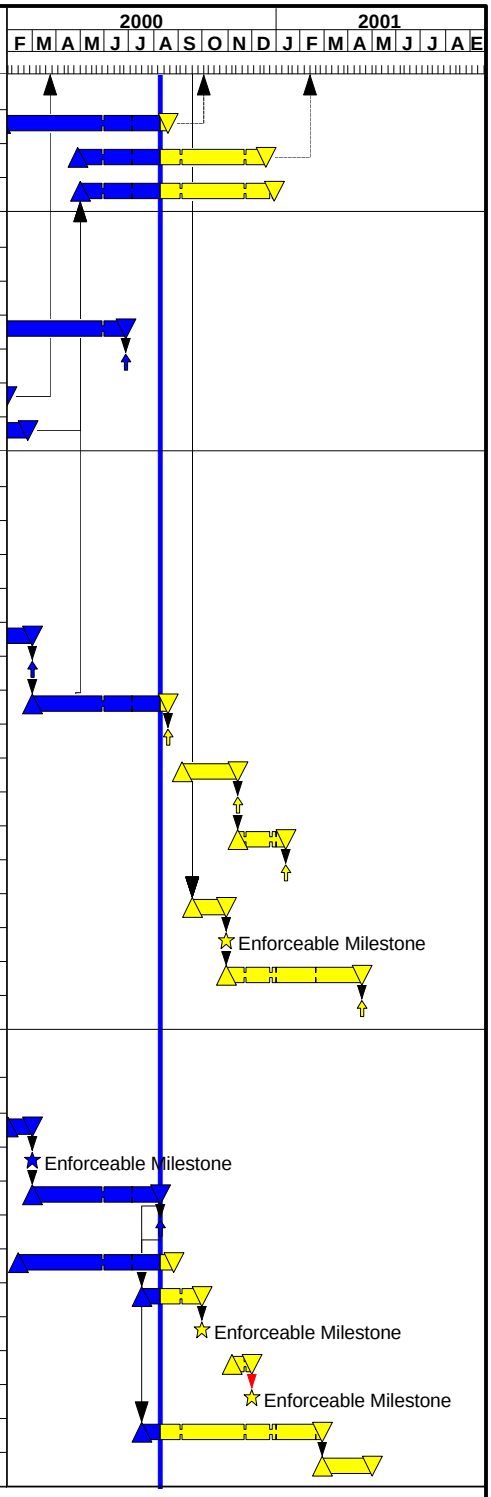
Groundwater Monitoring Programs					
08180	Demo 1 1999 Response Wells		7	20JAN00A	17AUG00
08190	Impact Area 2000 Response Wells		91	28APR00A	18DEC00
08200	CY 2000 Interim LT Monitoring		99	02MAY00A	29DEC00
Analytical Methods					
08510	Draft PEP Report Preparation		0	05NOV98A	30NOV98A
08520	Draft PEP Report	YES	0		30NOV98A
08530	Revise Draft PEP Report		0	01DEC98A	26JUN00A
08540	Final PEP Report		0		26JUN00A
08560	Scoping Dioxin Method		0	01DEC99A	27JAN00A
08570	Scoping Perchlorate Method		0	06OCT99A	24FEB00A
Reports					
09160	Phase II Interim Results Preparation		0	01SEP99A	01NOV99A
09170	Phase II Interim Results Report		0		01NOV99A
09180	Background GW Report Prep		0	01NOV99A	10DEC99A
09190	Draft Background GW Report		0		10DEC99A
09200	Draft ILTGM Plan Preparation		0	06JAN00A	01MAR00A
09210	Draft ILTGM Plan		0		02MAR00A
09220	Revise Draft ILTGM Plan		8	02MAR00A	18AUG00
09230	Final ILTGM Plan		0		18AUG00
09240	Phase IIa Draft CWR Preparation		50	05SEP00*	13NOV00
09250	Phase IIa Draft CWR		0		13NOV00
09260	Phase IIa Revise Draft CWR		40	14NOV00	12JAN01
09270	Phase IIa Final CWR		0		12JAN01
09280	Draft Geophys. Report Prep.		31	18SEP00*	30OCT00
09290	Draft Geophysics Report	YES	0		30OCT00
09300	Revise Draft Geophysics Report		116	31OCT00	17APR01
09310	Final Geophysics Report		0		17APR01
Rapid Response Actions (AO3)					
Group 1 (KD, J-3, GP-16, APC)					
10110	RRA Workplan Preparation		0	31JAN00A	01MAR00A
10120	Draft RRA Workplan	YES	0		01MAR00A
10130	Revise Draft RRA Workplan		0	02MAR00A	07AUG00A
10140	Final RRA Workplan		0		07AUG00A
10150	Pre-RRA Implementation		13	14FEB00A	25AUG00
10155	RRA Source Control		37	17JUL00A	29SEP00
10160	RRA Source Control Complete	YES	0		29SEP00
10170	RRA Site Restoration		16	08NOV00*	01DEC00
10180	RRA Site Restoration Complete	YES	0		01DEC00
10190	RRA Innovative Treatment		139	17JUL00A	27FEB01
10195	RRA Completion of Work Report		45	28FEB01	01MAY01



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