MONTHLY PROGRESS REPORT #29
FOR AUGUST 1999

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

The following summary of progress is for the period from August 2 to August 27, 1999. Scheduled actions are for the six-week period ending October 8, 1999.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of August 27 is summarized in Table 1.

Table 1. Drilling progress during August 1999

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-61	KD Range secondary target	200	100	98-108
MW-80	Bourne far field well	235	189	43-53 70-80 100-110
MW-80b	Bourne far field well (2nd boring)	168	122	130-140 158-168
MW-81	Bourne far field well	243	214	25-35 83-93
MW-82	Bourne far field well	175	146	25-35 78-88
MW-83	Bourne far field well	195	158	33-43 60-70 85-95
MW-82b	Bourne far field well (2nd boring)	195	166	
MW-84	Bourne far field well	214	175	
MW-62	U Range well	70		

bgs = below ground surface
bwt = below water table

Samples collected during the month are summarized in Table 2. Air samples were collected at three locations during UXO detonation operations on August 3. Groundwater sampling commenced on round 2 of the new wells installed in 1999, and samples were also collected from four Bourne water supply wells, the Coast Guard Antenna Station water supply well, and from a third monitoring well at the PAVE PAW Radar Station. Profile samples were collected from MW-61 (KD Range), -62 (U Range), -64 (GP-6), and the Bourne far field wells (MW-80 to 84). Soil samples were collected from several locations in the Grand Oaks neighborhood, from the boring at MW-62, and from the UXO post-detonation craters.

The Guard, EPA, and MADEP had a meeting on August 5 to discuss technical issues, including the following:

- The detonation operation to dispose of UXO on 8/3 was discussed. Air monitoring samples were collected and are currently being analyzed. Soil samples were collected from the craters at the Avery Road and J-1 Range locations. The craters at Turpentine Road and Tank Alley will be sampled prior to 10 am Friday (8/6) in accordance with the sampling plan, unless the presence of UXO at the Armored Personnel Carrier (APC) prevents access, in which case a request for extension will be submitted to EPA.
- The UXO recently inventoried at the APC are currently being evaluated to determine if these are HE rounds. The Guard expects to complete its evaluation by Friday (8/6) morning. EPA requested an explanation of why UXO avoidance is not appropriate for these rounds or the recently detonated rounds. The Guard will provide a letter describing the UXO avoidance issue by Monday (8/9). A complete report on the items identified at the APC will be provided within approximately one week.
- The Guard requested that EPA provide comments on the excavation plan for the high use target areas (Appendix C of the Munitions Survey Plan). Tetra Tech (the munitions survey contractor) will be onsite next week to begin work, with LTC FitzPatrick coordinating for the Guard.
- The profile data, boring log, and screen depths for MW-80 were discussed. Explosive compounds were detected in the upper two intervals but were determined to be false positives based on PDA spectra. A monitoring well will be screened at this depth (0-10 feet below water table). No other explosive compounds were detected in the available data, which is for 0-110 feet below water table. Chloroform was detected at most intervals, and acetone was detected in the upper two intervals.

  Trace levels of toluene were detected in the 4^{th} and 8^{th} intervals. Monitoring wells will be screened at the depths of the toluene detections, which also are near the proposed default depths for the Bourne far field wells. The screen depths will be 25-35 feet bwt, and 55-65 feet bwt.

  EPA asked for information regarding the depth of the screen at Bourne supply well PS-3, which is downgradient of MW-80. A call was made to USGS who indicated the screen is at 50-60 feet bgs, although the depth to water table at this site was unknown. The boring log for MW-80 indicates finer-grained material starting near 110 feet bwt. Deeper screens for MW-80 will be selected when the results of the remaining profile samples are available. EPA asked if USGS could indicate where they already have 5-foot screens and where they would like more, for age dating.

- EPA confirmed that 5 far field monitoring well clusters should be installed for the Bourne supply wells, as indicated in a previous telephone conversation with the Guard. Positions were illustrated in a map provided by the Guard. The depth of profiling was discussed. The proposed depth was 140 feet bwt, which would be 185 feet bgs at MW-80. This boring was continued to bedrock, encountered at 233 feet bgs. It was agreed to extend the northernmost and southernmost borings to bedrock. The other two borings may be terminated at 140 feet bwt pending a review of stratigraphy and profile results for all borings.
- It was agreed that the Bourne supply wells should be monitored quarterly for explosive compounds, in lieu of the sentinel wells that do not cover all of the supply wells. Ogden will contact Bourne to begin this sampling, and to determine their current monitoring program and recent results, which need to be reported to EPA under the IAGS. Ogden will provide a letter to the agencies requesting this change to the approved Workplan for Completion of Phase I Activities.
- There was a discussion of the proposal for the J Well far field monitoring well. EPA suggests that the Guard consider two well locations, near the north end of the ZOC as proposed by the Guard, and slightly northwest or north of the J Well inside the MMR boundary. This second location is near current well "102" that is being used for monitoring by the 102^{nd} FW. The Guard will review the current monitoring well depths for the "102" location and provide a response regarding the proposed southern location.

- There was a discussion of the proposal for the Sandwich far field monitoring wells. No map was available at the meeting showing the Sandwich ZOCs. Ogden will try to obtain a copy of this map from EarthTech or IRP, so that the ZOCs can be overlaid on the historic range use information. Ogden has not yet completed the draft Phase IIb Supplemental Workplan that would address the need for groundwater monitoring in the vicinity of the current P Range (former K Range), which is in this same area. This information will be assembled as soon as possible to complete selection of the Sandwich well locations.
- There is a meeting Monday with AFCEE regarding the chemical monitoring well plans for proposed future supply well 95-15.
- EPA did not yet have a decision on the 7/29 request to reconsider location of the proposed U Range well. The Guard will request an extension to the schedule, if needed with respect to the proposed August 30 completion date.
- EPA indicated that the groundwater modeling proposal of 7/22/99 was being reviewed. Comments are expected within a month.
- The Guard asked if EPA had a schedule for comments on the Training Area or Gun/Mortar Workplans. EPA indicated it would like to discuss the Gun Position sample locations at the next meeting. The Guard will have LTC FitzPatrick available to discuss the typical artillery procedures and gun locations.
- EPA indicated that its munitions expert had identified two 5-inch rockets and there was some concern regarding the fuze types. MAARNG will check whether these items were identified in EOD's inventory.
- EPA asked whether the Guard was seeking comment on the current draft of TM 99-1 describing explosive data for the KD and U Range. Ogden indicated that the document was to be revised in a few weeks to include the results for other analytes, and it was not necessary to comment on the current draft.
- EPA asked for additional information for its review of the draft soil sampling plan for MW-26/59. A map of soil sample locations was needed, and a summary of the profile data for these two borings. Ogden will prepare this map and summary.
- EPA requested that Ogden provide a summary of the results for the Small Arms Range groundwater investigation, for discussion at next week's meeting.
- The Guard indicated that the excavation of magnetic anomalies was completed for the Grand Oaks neighborhood. No new fragments of munitions were discovered. Soil samples were collected at locations where previous detections were found.
- Ogden provided a memo regarding the filtration procedure that was used for the recent drive point profile samples. The procedure did not appear to be effective for reducing interferents. The memo also describes earlier attempts at centrifugation and filtration, also not effective. EPA will review this information.

The Guard, EPA, and MADEP had a meeting on August 12 to discuss technical issues, including the following:

- Field activities for the next few weeks were discussed, including UXO clearance, road building, groundwater sampling, and drilling. The short-term funding for these activities is coming from the funding that was being reserved for additional Demo 1 investigation. In the next few weeks additional funding is expected from the Guard. Tetra Tech described field work related to the munition survey. Tetra Tech will coordinate with EPA and MADEP on reconnaissance of the gun positions, ponds, and other survey locations. The Guard noted that it has a January 1999 report by the ACE Waterways Experiment Station that lists the water bodies at MMR. Ogden will keep Tetra Tech informed regarding the UXO clearance for drilling operations at the gun and mortar positions.

- The Guard's recent letters requesting extensions to EPA deadlines were discussed. EPA did not allow the extension of time that would allow repositioning of the U Range well. EPA indicated that the request for extending the time for the second round of sampling MMR supply wells for drinking water analytes could be granted. The extension would be to allow approximately 3 months between sampling rounds, one of which was recently completed.
- The status of the chemical monitoring wells for Bourne 95-15 was discussed. AFCEE will meet again with MADEP and Bourne to discuss the installation of these wells.
- A 4-page handout was provided summarizing the groundwater monitoring results for metals analyses at the A, B, and G small arms ranges. Lead was not detected in groundwater at any of the three locations. The results will be included in the Interim Results Report. Ogden to check on why the concentrations are reported as "0", rather than the reporting limit, for the 1999 data. After the meeting it was determined that the new ERPIMS database format specifies use of "0" in the PARVAL field when there is a non-detect, and the reporting limit is specified in a separate database field.
- A 3-page handout was provided summarizing the profile results for MW-60, installed at the primary target on the KD Range. A number of explosive analytes were detected in the profile samples, but most were not confirmed using PDA. The false positives included nitroglycerin, nitrotoluenes, nitrobenzenes, picric acid, tetryl, PETN, and TNT. 2,6-DNT was detected once, in the profile sample from about 87 feet bwt. The PDA spectra for this compound was not a good match to the standard, but was close enough to confirm it as a detection. RDX was not detected in any of the profile samples. VOCs in the profile samples included acetone, MEK, toluene, chloroform, methylene chloride, styrene, and xylenes.
- A 2-page handout was provided summarizing the profile results for MW-61, installed at the secondary target on the KD Range. A number of explosive analytes were detected in the profile samples, but most were not confirmed using PDA. The false positives included nitroglycerin, nitrotoluenes, and PETN. 2,6-DNT was detected twice, in the profile samples from about 17 and 47 feet bwt. The PDA spectra for this compound were not good matches to the standard, but were close enough to confirm them as detections. VOCs in the profile samples included acetone, MEK, chloroform, chloroethane, chloromethane, and 2-hexanone.
- Ogden did not have the profile summary requested by EPA for MW-26 and –59. (This summary will be included in the response plan for the RDX groundwater detections in the Impact Area).
- A 7-page memo was provided by the Guard summarizing the results of the UXO inventory at the APC on Turpentine Road. The vast majority of items were positively identified as scrap. 173 items were suspected to be training rounds. 167 of these items will be held pending disposal in the controlled detonation chamber. The remaining six items which are too large for the chamber are being held pending determination of disposal procedures.
- There was a discussion of the gun/mortar firing procedures, as EPA had requested for evaluation of the draft FSP. The Guard described how artillery is set up at the position, in the open area or along the back of the position. Bag burning was conducted in an open area away from the equipment.
- The soil sampling results for the recent UXO detonation will be summarized for next week's meeting.
- Soil sampling at the APC beneath the former debris pile is expected to be completed shortly. Ogden selected soil sampling locations on Friday 8/13. The Guard will arrange with EOD to move nearby rounds far enough from the sampling locations so that the boring locations can be flagged for magnetic anomalies.
- EPA requested that the Guard provide information regarding costs of the IAGS.
- The Guard will finalize proposals for the J Well and Sandwich far field monitoring wells. ZOCs for the latter still need to be obtained from AFCEE or JPO.
- EPA asked that the draft CWR for the IAGS be provided in electronic form. Ogden will email the text to EPA.

- EPA asked whether additional information had been requested from ISOTEC for their proposed lab study of in situ oxidation. The Guard will review past meeting minutes to see if there was a request.
- The Guard indicated that a group of retired volunteers is looking for field projects to perform. The Guard will meet with the group on September 8.

The Guard, EPA, and MADEP had a meeting on August 19 to discuss technical issues, including the following:

- JPO gave a summary of the long range water supply status which consists of: Corp of Engineers has been contracted to locate a 3 million gallon per day water supply; Jacobs is currently building a model to assist in locating the water supply; by the end of September they should have an idea of good vs. bad locations, by October they should have the sites selected, pump test in November, and a report by the end of November; and the J well is still part of the plan with legislation ongoing to obtain a small piece of land to conform with state law.
- A handout was provided summarizing the J well information. The Guard proposes to install a far field well upgradient of the J well where the ZOC is back on the base (Greenway Road Bypass) and to use the existing IRP well 12MW0102 to monitor the groundwater quality near the supply well. EPA wants to review the handout, and requested a vertical cross-section of the J Well ZOC.
- A handout was provided summarizing the reconnaissance of 16 locations identified in the Archive Search Report. Still need to recon the bunkers, mortar targets, and buildings. Ogden will continue with this task next week. EPA asked that the buildings include the Quonset huts used for tear gas training.
- A review of the Phase IIa requirements was given. Work plan for the soil investigation at MW-59 has been completed. Waiting for the results of the ground water sampling at MW-40 and MW-44 before starting those plans. Development of MW-40 and MW-44 is scheduled to start next week. EPA asked about the status of adding detail to the sampling plan for MW-59. Ogden will complete the requested figure by next week. EPA asked about the status of the J range sampling plan. The Guard is awaiting comments from EPA on the Textron cleanup SOW, in order to send Textron a request for data. The Guard would like to receive this data before completing this plan. The Guard and EPA legal groups need to have a discussion regarding this plan, and whether the J-2 Range plan is provided separately. EPA asked about the status of the J-3 wetland investigation. Results of the soil and sediment sampling are part of the 99-4 Tech Memo, which will be ready for Guard review next week. EPA asked the Guard to check if small arms ranges described in Section G of the Phase IIa workplan are included in the Phase IIb workplan or supplement. EPA asked about the status of the RDX Response Plan. Guard stated that it would be ready for EPA review next week.
- The current status of the investigation was discussed. Currently drilling on MW-82 and MW-83, which will not be advanced to bedrock. MW-84 will be completed to bedrock. The original 5 far field Group 2 clusters are scheduled for completion in mid-September, other far field wells will likely continue after that but need to be discussed with respect to NON (8/31 meeting). UXO issues at the steel sided pit have put the clearance on hold and the UXO clearance has started on the U Range well and Gun and Mortar Wells. The Guard will write a letter requesting a schedule extension for the pit. The U Range and Gun/Mortar wells are being positioned as indicated in the final Phase IIa workplan and the draft Gun/Mortar FSP. EPA has no changes on well locations.
- EPA requested vertical cross-sections for particle tracks in the RDX Response Plan.
- EPA requested the status of the Mortar Target FSP. The Guard stated that the reconnaissance would finish next week, discuss next tech meeting, and a plan out in early to mid September.
- EPA requested the status of the Supplement to the Phase IIb Workplan. Ogden stated that it would try to complete the client draft and forward to the Guard next week for review.
- The agenda for the next IART meeting was discussed and is as follows: NON (EPA), Guard response, Transfer of Ranges to DEM, IART grant update, LRWS modeling update (Jacobs), Investigation

update (Ogden), J Well update (?), Arnold Road and Raccoon Lane update (JPO), UXO detonation (MAARNG), CDC update (JPO), and Archive Search Report comments (EPA).

- Tetra Tech updated on munition survey which included a field recon (with EPA and MADEP) of all active and some historic gun and mortar positions, and six water bodies. EPA indicated they have a preliminary list of 16 positions that are the priority for surveys, but need further internal discussion.

The Guard, EPA, and MADEP had a meeting on August 26 to discuss technical issues, including the following:

- Tetra Tech updated on the munitions survey which included discussions of logistical issues with cost estimating, access to former H Range, extent of survey at the former F Range, number of water bodies to investigate, and trench along Turpentine Road.
- Selection of screen depths for MW-81 deep wells. The remaining profile data and boring log was faxed on 8/25. EPA and DEP agreed to set the two remaining screens at 100' to 110' below the water table (bwt) and 185' to 195' bwt. A 1-page handout of a draft cross section of the Bourne far field wells was distributed.
- A 2-page letter proposing the far field monitoring location for the Sandwich water supply wells was distributed for EPA and DEP review. USGS has been requested to prepare a cross-section of the deepest ZOC for the Sandwich wells. EPA requested that the Guard check into the reason for the apparent extra ZOC in the proposal as compared to the Earth Tech ZOC map.
- The J Well far field well location proposal was discussed. A preliminary figure showing the vertical ZOC for the J Well was reviewed. Ogden needs to add scales, add the screened interval, correct the missing portion at the bottom, add the proposed far field monitoring location, and add base boundaries for next weeks tech meeting. The figure showing the cross section of the J Well, which Ogden adapted from a JEG figure, may need to have screen depths corrected (distributed on 8/19/99). EPA requested that Ogden update this figure for next week's tech meeting.
- A handout was provided summarizing the reconnaissance of the remaining locations identified in the Archive Search Report (bunkers, mortar targets, and buildings). EPA asked that the building foundations on Pew Road be included in the reconnaissance. Ogden will prepare a work plan and field sampling plan for EPA review at the beginning of October.
- The schedule for the J Range Workplan was discussed. This schedule will be provided to EPA within 14 days as requested. The Guard will prepare a separate workplan for the J-2 Range and would like to wait until data is received from Textron before completing the workplan for the J-1 and J-3 Ranges. EPA requested that the guard provide a schedule for the latter workplan as much as possible considering the interaction with Textron.
- U Range unsaturated soil sampling was discussed. Currently the soil samples are on hold because the U-Range is outside the Impact Area and soil sampling is not required. Guard would like to eliminate soil sampling on locations outside the Impact Area. EPA requested that the first four samples (0-0.5, 1.5-2, 10-12, and 20-22 ft bgs) be submitted for explosives and any interval with a PID detection gets the full suite of analyses. The EPA asked for an update on the location of the U Range monitoring well with respect to the targets. There was confusion on a request to relocate the well from the proposed location in the work plan. Ogden will prepare a sketch of the location of the well and the targets.
- A map of MW-26/59 proposed soil sampling locations was distributed for EPA and DEP review. EPA requested that the particle tracks be re-run using the subregional model and that a reconnaissance of the area be performed. Ogden also needs to confirm that the correct particle track was used on the figure, since it appears to be shorter than the figure provided in March 1999 (showing historic photos).
- A handout of the results of the soil and air monitoring for the UXO detonations was distributed. The Guard proposes to continue with this sampling on any other UXO detonations.

- The EPA asked if the VOC profile data from MW-63b had been reviewed. Ogden indicated that this was done at a previous Tech Meeting and that the VOC detections were covered by the screened intervals that were selected.
- EPA requested an update on the UXO at the steel-sided pit. The Guard indicated that a total of ten 81mm mortars have been located. EOD have looked at eight and determined that two are not fuzed and can be moved and the other six have fuzes and their disposal is being evaluated. The Guard is trying to get EOD to look at the other two rounds and to schedule their disposal. The six UXO at the APC have been classified for blow in place disposal.
- A handout of the results of the Grand Oaks soil samples collected by Ogden was distributed.
- EPA requested the status of the TIC results for the KD Range soil samples. Ogden indicated that they would be provided in the report.
- EPA requested the status of the alternative drilling methods. Ogden indicated that most of the subcontractors were not interested in the demonstration. DL Maher and Boart Longyear are currently developing an alternative method of drilling.
- EPA requested that the validated and unvalidated data for groundwater and profile samples would be provided in the Interim Results Report.

2. SUMMARY OF DATA RECEIVED

Preliminary (Non-Validated) Detections

Preliminary non-validated detections of explosive compounds and Volatile Organic Compounds (VOC) are summarized in Table 3 for samples collected during the preceding six-week period. The status of the detections with respect to confirmation using Photo Diode Array (PDA) spectra is also indicated in this table. Where the PDA status is "YES" in Table 3, the detected compound has been confirmed to be present in the sample. Where the status is "NO", the identification of an explosive has been confirmed 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.

Air samples from a UXO detonation event on 8/3/99 indicated detections of 2,6-dinitrotoluene (2,6-DNT), pentaerythritol tetranitrate (PETN), and tetryl, but the detected compounds were not confirmed by PDA. The same false positives were observed in the Quality Control (QC) air sample, and appear to be associated with the vapor phase sampling media.

Field QC samples associated with one of the UXO crater soil samples, with PAVE PAWS MW-2, and with two soil samples from the MW-60 boring had detects of nitroglycerin (NG), but these were not confirmed by PDA.

Groundwater samples from 9 monitoring wells indicated the presence of explosive compounds. The detections of RDX at MW-34M1, -34M2, -38M3, -38M4,–43M2, and –50M1, and the detection of HMX at MW-39M2, were confirmed by PDA. With the exception of MW-34M2, each of these wells had the same compounds detected in the previous sampling round. The detections of 3-nitrotoluene (3-NT), 4-NT, NG, PETN, and picric acid (PA) at MW-45, and the detection of NG at MW-53, were not confirmed by PDA.

Several explosive compounds were detected in most of the profile samples from drilling MW-60, -61, and -62, but only a few samples had detections confirmed by PDA. MW-60 and –61 are installed downgradient from the primary and secondary targets, respectively, at the KD Range, and MW-62 is installed downgradient from the targets nearest to the firing line at the U Range. The detected compounds included 1,3,5-trinitrobenzene (TNB), 1,3-dinitrobenzene (DNB), TNT, 2,6-DNT, 2-NT, 3-NT, 4-NT,

nitrobenzene (NB), NG, PA, and tetryl. 2,6-DNT was confirmed in the following samples: 88 ft below water table (bwt) at MW-60; 10 ft bwt at MW-61; and 40 ft bwt at MW-61.

Two explosive compounds were detected in a profile sample from the second boring at far field monitoring well cluster MW-63, but neither detection (4-NT, NG) was confirmed by PDA. This sample was collected to cover an interval that was dry in the first boring.

Four explosive compounds were detected, and one was confirmed by PDA, in the profile samples from MW-64. This boring is located downgradient from GP-6. Results for the first two intervals were available. 3-NT was detected in the upper interval, NG and PA were detected in both intervals, and RDX was detected in the lower interval; RDX was the only detection confirmed by PDA.

Several explosive compounds were detected, but none were confirmed, in the profile samples from borings MW-80, -81, -82, and –83, which are installed upgradient from the Bourne water supply wells. The detected compounds included 3-NT, 4-NT, NG, and PA.

Validated Data

Validated data were received during August for Sample Delivery Groups (SDGs) 139, 141, 157-160, 163, and 172. These SDGs contain results for 123 soil samples from the KD and U Ranges and the J-3 Wetland, 3 sediment samples from the J-3 Wetland, and 28 groundwater profile samples from three borings (DP-4, -8, and –9). The validated data are provided in an attachment to this report. Results include analyses for explosive, VOC, Semivolatile Organic Compounds (SVOC), pesticides, herbicides, and inorganic parameters. Following is a brief summary of the validated data.

Explosives were identified at 2 profile borings in the validated data, with one exceedance of the lifetime drinking water HA of 2 ppb for RDX. The exceedance was measured in a profile sample from DP-9 at 70-75 feet bgs (4.7 ppb). Other detections were for HMX (0.3-14 ppb) at depths of 60-65 and 70-75 feet bgs in DP-9, and at a depth of 85-90 feet bgs in DP-8.

Explosive detections in 1 sediment sample from the J-3 Wetland, and in 6 grid samples from the KD Range, are included in the validated data. The J-3 Wetland detection was of NG, and the sample was located adjacent to the previous detection of NG in sediment. The KD Range detections were of 2-amino-4,6-dinitrotoluene (2A-DNT), 4-amino-2,6-dinitrotoluene (4A-DNT), RDX, and HMX. These occurred in discrete samples from grids 44N and 44L, both located at the primary target. None of the detections exceeded a Reportable Concentration (RC) limit under the Massachusetts Contingency Plan (MCP).

Metals were detected in all soil and sediment samples included in the validated data. Twenty-three of the 25 analytes were detected; cadmium and sodium were not detected. None of the detections exceeded a RC limit under the MCP.

Five VOCs were detected in the validated soil and sediment samples. Acetone, methylene chloride, and chloroform were detected in the soil samples. Detections occurred in 7 of 32 soil samples, and none of the detections exceeded a RC limit under the MCP. All three sediment samples that were validated included VOC detections. Acetone, MEK, and toluene were detected.

SVOCs were detected in most of the validated soil and sediment samples. Fluoranthene, phenanthrene, and pyrene were detected most frequently in soil, and bis (2-ethylhexyl) phthalate was detected in the highest concentrations in soil. Eighteen other SVOCs were detected in soil, in up to 17 samples each. None of the detections exceeded a RC limit under the MCP. Only four SVOCs were detected in

sediment, notably n-nitrosodiphenylamine, which is a propellant combustion byproduct. This detection occurred at the same location where NG was detected (see above).

Ten pesticides were detected in most of the validated soil and sediment samples. DDE and DDT were detected most frequently in soil. None of the detections exceeded a RC limit under the MCP. DDD, DDE, and DDT were detected in all three sediment samples.

Four herbicides were detected in the soil samples that were validated, and none were detected in the sediment samples. MCPA was detected most frequently (5 of 28 samples) and in the highest concentrations; Silvex, chloramben, and 2,4,5-T were also detected.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period include the following:

Weekly Progress Report (7/19/99 to 7/23/99)	August 4, 1999
Draft Tech Memo 99-3, Brick-lined Pit Soil Results	August 4, 1999
Weekly Progress Report (7/26/99 to 7/30/99)	August 5, 1999
Monthly Progress Report #28 (July 1999)	August 10, 1999
Weekly Progress Update (8/2/99 to 8/6/99)	August 25, 1999
Weekly Progress Update (8/9/99 to 8/1399)	August 25, 1999
Weekly Progress Update (8/16/99 to 8/20/99)	August 25, 1999

4. SCHEDULED ACTIONS

Figure 1 provides a Gantt chart based on the Final Action Plan, updated to reflected progress and proposed work. Activities scheduled for September and early October include: continue efforts to secure supplemental funding; EPA provide comments on Draft PEP Analytical Report; prepare final Phase I Completion Workplan; perform synoptic water level measurements; complete round 3 sampling for Phase I wells; begin sampling far field Group 2 wells; EPA review Demo 1 Response Plan; begin soil sampling for source areas; continue data collection for J Ranges; complete soil sampling and monitoring well installation for the steel-lined pit; EPA review draft Workplan for Training Areas; sample KD and U wells; revise Gun/Mortar FSP; continue monitoring well installations for gun and mortar positions; complete draft workplan for trenches/excavations; complete draft workplan for mortar targets; and continue preparation of Interim Results Report. The next meeting of the Impact Area Groundwater Study Review Team has been scheduled for October 28, 1999.

TABLE 2
SAMPLING PROGRESS
8/1-8/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
AS37/40	AS37/40	08/03/1999	AIR	0.00	0.00		
ASAVERYRD	ASAVERYRD	08/03/1999	AIR	0.00	0.00		
ASJ1RANGE	ASJ1RANGE	08/03/1999	AIR	0.00	0.00		
PUFBLK	PUFLCSD	08/03/1999	AIR	0.00	0.00		
PUFLCS	PUFLCS	08/03/1999	AIR	0.00	0.00		
PUFLCSD	PUFLCSD	08/03/1999	AIR	0.00	0.00		
90LWA0007E	FIELDQC	08/13/1999	FIELDQC	0.00	0.00		
G61MKT	FIELDQC	08/02/1999	FIELDQC	0.00	0.00		
G62DCT	FIELDQC	08/31/1999	FIELDQC	0.00	0.00		
G62DGE	FIELDQC	08/31/1999	FIELDQC	0.00	0.00		
G80DME	FIELDQC	08/03/1999	FIELDQC	0.00	0.00		
G80DPT	FIELDQC	08/03/1999	FIELDQC	0.00	0.00		
G80DQE	FIELDQC	08/04/1999	FIELDQC	0.00	0.00		
G80DTT	FIELDQC	08/04/1999	FIELDQC	0.00	0.00		
G81DBE	FIELDQC	08/12/1999	FIELDQC	0.00	0.00		
G81DBT	FIELDQC	08/11/1999	FIELDQC	0.00	0.00		
G81DMT	FIELDQC	08/13/1999	FIELDQC	0.00	0.00		
G81DOE	FIELDQC	08/13/1999	FIELDQC	0.00	0.00		
G81DSE	FIELDQC	08/16/1999	FIELDQC	0.00	0.00		
G81DVE	FIELDQC	08/17/1999	FIELDQC	0.00	0.00		
G81DVT	FIELDQC	08/17/1999	FIELDQC	0.00	0.00		
G82DDE	FIELDQC	08/18/1999	FIELDQC	0.00	0.00		
G82DJE	FIELDQC	08/19/1999	FIELDQC	0.00	0.00		
G82DLE	FIELDQC	08/23/1999	FIELDQC	0.00	0.00		
G82DOT	FIELDQC	08/24/1999	FIELDQC	0.00	0.00		
G83DAE	FIELDQC	08/18/1999	FIELDQC	0.00	0.00		
G83DIT	FIELDQC	08/19/1999	FIELDQC	0.00	0.00		
G83DLE	FIELDQC	08/20/1999	FIELDQC	0.00	0.00		
G83DLT	FIELDQC	08/20/1999	FIELDQC	0.00	0.00		
G83DOT	FIELDQC	08/23/1999	FIELDQC	0.00	0.00		
G84DAE	FIELDQC	08/25/1999	FIELDQC	0.00	0.00		
G84DAT	FIELDQC	08/25/1999	FIELDQC	0.00	0.00		
G84DFE	FIELDQC	08/26/1999	FIELDQC	0.00	0.00		
G84DFT	FIELDQC	08/26/1999	FIELDQC	0.00	0.00		
G84DME	FIELDQC	08/27/1999	FIELDQC	0.00	0.00		
G84DMT	FIELDQC	08/27/1999	FIELDQC	0.00	0.00		
G84DRE	FIELDQC	08/30/1999	FIELDQC	0.00	0.00		
G84DRT	FIELDQC	08/30/1999	FIELDQC	0.00	0.00		
HD105MMTRMW3	FIELDQC	08/06/1999	FIELDQC	0.00	0.00		
HD105MMTRMW3	FIELDQC	08/06/1999	FIELDQC	0.00	0.00		
PPAWSMW-3E	FIELDQC	08/12/1999	FIELDQC	0.00	0.00		
PPAWSMW-3T	FIELDQC	08/12/1999	FIELDQC	0.00	0.00		
S82DEE	FIELDQC	08/27/1999	FIELDQC	0.00	0.00		
W34M1T	FIELDQC	08/16/1999	FIELDQC	0.00	0.00		
W38SST	FIELDQC	08/18/1999	FIELDQC	0.00	0.00		
W72SST	FIELDQC	08/05/1999	FIELDQC	0.00	0.00		
4036000-01G	4036000-01G	08/09/1999	GROUNDWATER			6.00	12.00
4036000-03G	4036000-03G	08/09/1999	GROUNDWATER			6.00	12.00
4036000-04G	4036000-04G	08/09/1999	GROUNDWATER			6.00	12.00

Profiling methods include: Volatiles and Explosives
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Other Sample Types methods are variable
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TABLE 2
SAMPLING PROGRESS
8/1-8/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
4036000-04GD	4036000-04G	08/09/1999	GROUNDWATER			6.00	12.00
4036000-06G	4036000-06G	08/09/1999	GROUNDWATER			6.00	12.00
90LWA0007	90LWA0007	08/13/1999	GROUNDWATER			0.00	10.00
PPAWSMW-3	PPAWSMW-3	08/12/1999	GROUNDWATER			0.00	10.00
USCGANTST	USCGANTST	08/17/1999	GROUNDWATER				
W34M1A	MW-34	08/16/1999	GROUNDWATER			75.00	85.00
W34M2A	MW-34	08/16/1999	GROUNDWATER			55.00	65.00
W34M3A	MW-34	08/16/1999	GROUNDWATER			34.00	44.00
W35M1A	MW-35	08/20/1999	GROUNDWATER			69.00	79.00
W35M2A	MW-35	08/19/1999	GROUNDWATER			14.00	24.00
W35SSA	MW-35	08/19/1999	GROUNDWATER			0.00	10.00
W35SSD	MW-35	08/19/1999	GROUNDWATER			0.00	10.00
W36M1A	MW-36	08/17/1999	GROUNDWATER			79.00	89.00
W36M2A	MW-36	08/17/1999	GROUNDWATER			59.00	69.00
W36SSA	MW-36	08/03/1999	GROUNDWATER			0.00	10.00
W36SSA	MW-36	08/17/1999	GROUNDWATER			0.00	10.00
W38DDA	MW-38	08/17/1999	GROUNDWATER			125.00	135.00
W38M1A	MW-38	08/17/1999	GROUNDWATER			100.00	110.00
W38M2A	MW-38	08/19/1999	GROUNDWATER			70.00	80.00
W38M2D	MW-38	08/19/1999	GROUNDWATER			70.00	80.00
W38M3A	MW-38	08/18/1999	GROUNDWATER			53.00	63.00
W38M4A	MW-38	08/18/1999	GROUNDWATER			15.00	25.00
W38SSA	MW-38	08/18/1999	GROUNDWATER			0.00	10.00
W39M1A	MW-39	08/18/1999	GROUNDWATER			87.00	97.00
W39M2A	MW-39	08/18/1999	GROUNDWATER			42.00	52.00
W39SSA	MW-39	08/18/1999	GROUNDWATER			0.00	10.00
W41M1A	MW-41	08/19/1999	GROUNDWATER			110.00	120.00
W41M1L	MW-42	08/19/1999	GROUNDWATER			139.00	149.00
W41M2A	MW-41	08/20/1999	GROUNDWATER			69.00	79.00
W41M3A	MW-41	08/23/1999	GROUNDWATER			0.00	10.00
W42M1A	MW-42	08/20/1999	GROUNDWATER			139.00	149.00
W42M2A	MW-42	08/23/1999	GROUNDWATER			119.00	129.00
W42M3A	MW-42	08/23/1999	GROUNDWATER			99.00	109.00
W43M1A	MW-43	08/23/1999	GROUNDWATER			93.00	103.00
W43M2A	MW-43	08/23/1999	GROUNDWATER			70.00	80.00
W43SSA	MW-43	08/24/1999	GROUNDWATER			0.00	10.00
W45M1A	MW-45	08/23/1999	GROUNDWATER			98.00	108.00
W45M2A	MW-45	08/24/1999	GROUNDWATER			18.00	28.00
W45SSA	MW-45	08/23/1999	GROUNDWATER			0.00	10.00
W46DDA	MW-46	08/24/1999	GROUNDWATER			135.00	145.00
W46M1A	MW-46	08/24/1999	GROUNDWATER			102.00	112.00
W46M2A	MW-46	08/24/1999	GROUNDWATER			55.00	65.00
W46M3A	MW-46	08/23/1999	GROUNDWATER			22.00	32.00
W46M3D	MW-46	08/23/1999	GROUNDWATER			22.00	32.00
W46SSA	MW-46	08/25/1999	GROUNDWATER			22.00	32.00
W47DDA	MW-47	08/24/1999	GROUNDWATER			100.00	110.00
W47M1A	MW-47	08/24/1999	GROUNDWATER			75.00	85.00
W47M2A	MW-47	08/25/1999	GROUNDWATER			38.00	48.00
W47M3A	MW-47	08/25/1999	GROUNDWATER			21.00	31.00

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TABLE 2
SAMPLING PROGRESS
8/1-8/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W47SSA	MW-47	08/25/1999	GROUNDWATER			0.00	10.00
W50DDA	MW-50	08/24/1999	GROUNDWATER			120.50	130.50
W50M1A	MW-50	08/24/1999	GROUNDWATER			90.00	100.00
W50M2A	MW-50	08/25/1999	GROUNDWATER			59.00	69.00
W50M3A	MW-50	08/25/1999	GROUNDWATER			29.00	39.00
W50M3D	MW-50	08/25/1999	GROUNDWATER			29.00	39.00
W51DDA	MW-51	08/26/1999	GROUNDWATER			130.00	140.00
W51DDD	MW-51	08/26/1999	GROUNDWATER			130.00	140.00
W51M1A	MW-51	08/26/1999	GROUNDWATER			90.00	100.00
W51M2A	MW-51	08/25/1999	GROUNDWATER			60.50	70.50
W51M3A	MW-51	08/25/1999	GROUNDWATER			29.00	39.00
W51SSA	MW-51	08/26/1999	GROUNDWATER			0.00	10.00
W52DDA	MW-52	08/30/1999	GROUNDWATER			219.00	229.00
W52DDL	MW-52	08/30/1999	GROUNDWATER			120.00	130.00
W52M1A	MW-52	08/26/1999	GROUNDWATER			139.00	149.00
W52M2A	MW-52	08/26/1999	GROUNDWATER			74.00	84.00
W52M3A	MW-52	08/27/1999	GROUNDWATER			26.00	36.00
W52M3L	MW-52	08/27/1999	GROUNDWATER			26.00	36.00
W52SSA	MW-52	08/26/1999	GROUNDWATER			0.00	10.00
W53DDA	MW-53	08/30/1999	GROUNDWATER			157.00	167.00
W53M1A	MW-53	08/30/1999	GROUNDWATER			100.00	110.00
W53M1L	MW-64	08/30/1999	GROUNDWATER			100.00	110.00
W53M2A	MW-53	08/31/1999	GROUNDWATER			70.00	80.00
W53M3A	MW-53	08/31/1999	GROUNDWATER			40.00	50.00
W53SSA	MW-53	08/26/1999	GROUNDWATER			0.00	10.00
W53SSA	MW-53	08/27/1999	GROUNDWATER			0.00	10.00
W54DDA	MW-54	08/30/1999	GROUNDWATER			126.00	136.00
W54M1A	MW-54	08/30/1999	GROUNDWATER			80.00	90.00
W54M2A	MW-54	08/27/1999	GROUNDWATER			58.00	68.00
W54M2L	MW-54	08/27/1999	GROUNDWATER			58.00	68.00
W54M3A	MW-54	08/30/1999	GROUNDWATER			28.00	38.00
W54SSA	MW-54	08/27/1999	GROUNDWATER			0.00	10.00
W55DDA	MW-55	08/30/1999	GROUNDWATER			120.00	130.00
W55M1A	MW-55	08/31/1999	GROUNDWATER			90.00	100.00
W55M2A	MW-55	08/31/1999	GROUNDWATER			60.00	70.00
W55M3A	MW-55	08/31/1999	GROUNDWATER			29.50	39.50
W55SSA	MW-55	08/31/1999	GROUNDWATER			0.00	10.00
W59M1A	MW-59	08/31/1999	GROUNDWATER			35.00	45.00
W72SSA	MW-72	08/05/1999	GROUNDWATER			0.00	10.00
DW6312	GAC WATER	08/12/1999	IDW	0.00	0.00		
DW8003	GAC WATER	08/03/1999	IDW	0.00	0.00		
DW8004	GAC WATER	08/04/1999	IDW	0.00	0.00		
DW8113	GAC WATER	08/13/1999	IDW	0.00	0.00		
DW8116	GAC WATER	08/16/1999	IDW	0.00	0.00		
DW8223	GAC WATER	08/23/1999	IDW	0.00	0.00		
DW8319	GAC WATER	08/19/1999	IDW	0.00	0.00		
DW8426	GAC WATER	08/26/1999	IDW	0.00	0.00		
DW8427	GAC WATER	08/27/1999	IDW	0.00	0.00		
DW8425	GAC WATER	08/25/1999	OTHER	0.00	0.00		

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TABLE 2
SAMPLING PROGRESS
8/1-8/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G61MHA	MW-61	08/02/1999	PROFILE	170.00	170.00	70.20	70.20
G61MIA	MW-61	08/02/1999	PROFILE	180.00	180.00	80.20	80.20
G61MJA	MW-61	08/02/1999	PROFILE	190.00	190.00	90.20	90.20
G61MKA	MW-61	08/02/1999	PROFILE	200.00	200.00	100.20	100.20
G62DAA	MW-62	08/30/1999	PROFILE	135.00	135.00	7.10	7.10
G62DBA	MW-62	08/30/1999	PROFILE	140.00	140.00	12.10	12.10
G62DBD	MW-62	08/30/1999	PROFILE	140.00	140.00	12.10	12.10
G62DCA	MW-62	08/31/1999	PROFILE	150.00	150.00	22.10	22.10
G62DDA	MW-62	08/31/1999	PROFILE	160.00	160.00	32.10	32.10
G62DEA	MW-62	08/31/1999	PROFILE	170.00	170.00	42.10	42.10
G62DFA	MW-62	08/31/1999	PROFILE	180.00	180.00	52.10	52.10
G62DGA	MW-62	08/31/1999	PROFILE	190.00	190.00	62.10	62.10
G62DHA	MW-62	08/31/1999	PROFILE	200.00	200.00	72.10	72.10
G64DAA	MW-64	08/31/1999	PROFILE	92.00	95.00	0.24	3.24
G64DBA	MW-64	08/31/1999	PROFILE	100.00	105.00	8.24	13.24
G80DLA	MW-80	08/02/1999	PROFILE	150.00	155.00	104.40	109.40
G80DMA	MW-80	08/03/1999	PROFILE	160.00	165.00	114.40	119.40
G80DNA	MW-80	08/03/1999	PROFILE	170.00	175.00	124.40	129.40
G80DOA	MW-80	08/03/1999	PROFILE	180.00	185.00	134.40	139.40
G80DPA	MW-80	08/03/1999	PROFILE	190.00	195.00	144.40	149.40
G80DPD	MW-80	08/03/1999	PROFILE	190.00	195.00	144.40	149.40
G80DQA	MW-80	08/04/1999	PROFILE	200.00	205.00	154.40	159.40
G80DRA	MW-80	08/04/1999	PROFILE	210.00	215.00	164.40	169.40
G80DSA	MW-80	08/04/1999	PROFILE	220.00	225.00	174.40	179.40
G80DTA	MW-80	08/04/1999	PROFILE	228.00	223.00	182.40	177.40
G81DAA	MW-81	08/11/1999	PROFILE	30.00	35.00	1.50	6.50
G81DBA	MW-81	08/11/1999	PROFILE	40.00	45.00	11.50	16.50
G81DCA	MW-81	08/12/1999	PROFILE	50.00	55.00	21.50	26.50
G81DCD	MW-81	08/12/1999	PROFILE	50.00	55.00	21.50	26.50
G81DDA	MW-81	08/12/1999	PROFILE	60.00	65.00	31.50	36.50
G81DEA	MW-81	08/12/1999	PROFILE	70.00	75.00	41.50	46.50
G81DFA	MW-81	08/12/1999	PROFILE	80.00	85.00	51.50	56.50
G81DGA	MW-81	08/12/1999	PROFILE	90.00	95.00	61.50	66.50
G81DHA	MW-81	08/12/1999	PROFILE	100.00	105.00	71.50	76.50
G81DIA	MW-81	08/12/1999	PROFILE	110.00	115.00	81.50	86.50
G81DJA	MW-81	08/12/1999	PROFILE	120.00	125.00	91.50	96.50
G81DKA	MW-81	08/12/1999	PROFILE	130.00	135.00	101.50	106.50
G81DLA	MW-81	08/13/1999	PROFILE	140.00	145.00	111.50	116.50
G81DMA	MW-81	08/13/1999	PROFILE	150.00	155.00	121.50	126.50
G81DNA	MW-81	08/13/1999	PROFILE	160.00	165.00	131.50	136.50
G81DND	MW-81	08/13/1999	PROFILE	160.00	165.00	131.50	136.50
G81DOA	MW-81	08/13/1999	PROFILE	170.00	175.00	141.50	146.50
G81DPA	MW-81	08/16/1999	PROFILE	180.00	185.00	151.50	156.50
G81DQA	MW-81	08/16/1999	PROFILE	190.00	195.00	161.50	166.50
G81DRA	MW-81	08/16/1999	PROFILE	200.00	205.00	171.50	176.50
G81DSA	MW-81	08/16/1999	PROFILE	210.00	215.00	181.50	186.50
G81DTA	MW-81	08/16/1999	PROFILE	220.00	225.00	191.50	196.50
G81DUA	MW-81	08/16/1999	PROFILE	230.00	235.00	201.50	206.50
G81DVA	MW-81	08/17/1999	PROFILE	240.00	245.00	211.50	216.50

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TABLE 2
SAMPLING PROGRESS
8/1-8/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G82DAA	MW-82	08/17/1999	PROFILE	32.00	32.00	2.90	2.90
G82DBA	MW-82	08/17/1999	PROFILE	40.00	45.00	10.90	15.90
G82DCA	MW-82	08/17/1999	PROFILE	50.00	55.00	20.90	25.90
G82DCD	MW-82	08/17/1999	PROFILE	50.00	55.00	20.90	25.90
G82DDA	MW-82	08/18/1999	PROFILE	60.00	65.00	30.90	35.90
G82DEA	MW-82	08/18/1999	PROFILE	70.00	75.00	40.90	45.90
G82DFA	MW-82	08/18/1999	PROFILE	80.00	85.00	50.90	55.90
G82DGA	MW-82	08/18/1999	PROFILE	90.00	95.00	60.90	65.90
G82DHA	MW-82	08/18/1999	PROFILE	100.00	105.00	70.90	75.90
G82DIA	MW-82	08/18/1999	PROFILE	110.00	115.00	80.90	85.90
G82DJA	MW-82	08/19/1999	PROFILE	120.00	125.00	90.90	95.90
G82DKA	MW-82	08/20/1999	PROFILE	130.00	135.00	100.90	105.90
G82DLA	MW-82	08/23/1999	PROFILE	140.00	145.00	110.90	115.90
G82DMA	MW-82	08/23/1999	PROFILE	150.00	155.00	120.90	125.90
G82DNA	MW-82	08/23/1999	PROFILE	160.00	165.00	130.90	135.90
G82DND	MW-82	08/23/1999	PROFILE	160.00	165.00	130.90	135.90
G82DOA	MW-82	08/24/1999	PROFILE	170.00	175.00	140.90	145.90
G83DAA	MW-83	08/18/1999	PROFILE	37.00	42.00	0.00	5.00
G83DBA	MW-83	08/18/1999	PROFILE	50.00	55.00	13.00	18.00
G83DCA	MW-83	08/19/1999	PROFILE	60.00	65.00	23.00	28.00
G83DDA	MW-83	08/19/1999	PROFILE	70.00	75.00	33.00	38.00
G83DEA	MW-83	08/19/1999	PROFILE	80.00	85.00	43.00	48.00
G83DED	MW-83	08/19/1999	PROFILE	80.00	85.00	43.00	48.00
G83DFA	MW-83	08/19/1999	PROFILE	90.00	95.00	53.00	58.00
G83DGA	MW-83	08/19/1999	PROFILE	100.00	105.00	63.00	68.00
G83DHA	MW-83	08/19/1999	PROFILE	110.00	115.00	73.00	78.00
G83DIA	MW-83	08/19/1999	PROFILE	120.00	125.00	83.00	88.00
G83DJA	MW-83	08/19/1999	PROFILE	130.00	135.00	93.00	98.00
G83DKA	MW-83	08/19/1999	PROFILE	140.00	145.00	103.00	108.00
G83DLA	MW-83	08/20/1999	PROFILE	150.00	155.00	113.00	118.00
G83DMA	MW-83	08/20/1999	PROFILE	160.00	165.00	123.00	128.00
G83DNA	MW-83	08/20/1999	PROFILE	170.00	175.00	133.00	138.00
G83DOA	MW-83	08/23/1999	PROFILE	180.00	185.00	143.00	148.00
G83DPA	MW-83	08/23/1999	PROFILE	190.00	195.00	153.00	158.00
G84DAA	MW-84	08/25/1999	PROFILE	40.00	45.00	1.15	6.15
G84DBA	MW-84	08/25/1999	PROFILE	50.00	55.00	11.15	16.15
G84DBD	MW-84	08/25/1999	PROFILE	50.00	55.00	11.15	16.15
G84DCA	MW-84	08/25/1999	PROFILE	60.00	65.00	21.15	26.15
G84DDA	MW-84	08/25/1999	PROFILE	70.00	75.00	31.15	36.15
G84DEA	MW-84	08/25/1999	PROFILE	80.00	85.00	41.15	46.15
G84DFA	MW-84	08/25/1999	PROFILE	90.00	95.00	51.15	56.15
G84DGA	MW-84	08/26/1999	PROFILE	100.00	105.00	61.15	66.15
G84DHA	MW-84	08/26/1999	PROFILE	110.00	115.00	71.15	76.15
G84DIA	MW-84	08/26/1999	PROFILE	120.00	125.00	81.15	86.15
G84DID	MW-84	08/26/1999	PROFILE	120.00	125.00	81.15	86.15
G84DJA	MW-84	08/26/1999	PROFILE	130.00	135.00	91.15	96.15
G84DKA	MW-84	08/26/1999	PROFILE	140.00	145.00	101.15	106.15
G84DLA	MW-84	08/26/1999	PROFILE	150.00	155.00	111.15	116.15
G84DMA	MW-84	08/27/1999	PROFILE	160.00	165.00	121.15	126.15

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TABLE 2
SAMPLING PROGRESS
8/1-8/31

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G84DNA	MW-84	08/27/1999	PROFILE	170.00	175.00	131.15	136.15
G84DOA	MW-84	08/27/1999	PROFILE	180.00	185.00	141.15	146.15
G84DPA	MW-84	08/27/1999	PROFILE	190.00	195.00	151.15	156.15
G84DQA	MW-84	08/27/1999	PROFILE	200.00	205.00	161.15	166.15
G84DRA	MW-84	08/30/1999	PROFILE	208.00	213.00	169.15	174.15
MA-13R	MA-13R	08/04/1999	SOIL BORING				
MA-13RD	MA-13R	08/04/1999	SOIL BORING				
MA-19R	MA-19R	08/04/1999	SOIL BORING				
MA-4R	MA-4R	08/04/1999	SOIL BORING				
S62DBA	MW-62	08/26/1999	SOIL BORING	10.00	12.00		
S62DCA	MW-62	08/26/1999	SOIL BORING	20.00	22.00		
S62DDA	MW-62	08/26/1999	SOIL BORING	30.00	32.00		
S62DEA	MW-62	08/27/1999	SOIL BORING	40.00	42.00		
HC105/155TAMW4	HC105/155TAMW40	08/06/1999	SOIL GRID	0.00	0.25		
HC105MMTAMW4	HC105MMTAMW40	08/06/1999	SOIL GRID	0.00	0.25		
HC105MMTRMW3	HC105MMTRMW37	08/06/1999	SOIL GRID	0.00	0.25		
HC155MMTAW40	HC155MMTAW40	08/06/1999	SOIL GRID	0.00	0.25		
HC37MMHEAVER	HC37MMHEAVERY	08/05/1999	SOIL GRID	0.00	0.25		
HC4.2INTRMW37	HC4.2INTRMW37	08/06/1999	SOIL GRID	0.00	0.25		
HC60WPTAUXOP	HC60WPTAUXOPT	08/05/1999	SOIL GRID	0.00	0.25		
HD105/155TAMW4	HD105/155TAMW40	08/06/1999	SOIL GRID	0.00	0.25		
HD105MMTAW40	HD105MMTAW40	08/06/1999	SOIL GRID	0.00	0.25		
HD105MMTRMW3	HD105MMTRMW37	08/06/1999	SOIL GRID	0.00	0.25		
HD155MMTAMW4	HD155MMTAMW40	08/06/1999	SOIL GRID	0.00	0.25		
HD37MMHEAVER	HD37MMHEAVERY	08/05/1999	SOIL GRID	0.00	0.25		
HD4.2INTRMW37	HD4.2INTRMW37	08/06/1999	SOIL GRID	0.00	0.25		
HD60WPTAUXOP	HD60WPTAUXOPT	08/05/1999	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
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 3
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/18/99-8/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
AS37/40	AS37/40	08/03/1999	AIR	0.00	0.00	8330N	2,6-DINITROTOLUENE	NO
AS37/40	AS37/40	08/03/1999	AIR	0.00	0.00	8330N	PENTAERYTHRITOL TETRANITRATE	NO
AS37/40	AS37/40	08/03/1999	AIR	0.00	0.00	8330N	TETRYL	NO
ASAVERYRD	ASAVERYRD	08/03/1999	AIR	0.00	0.00	8330N	2,6-DINITROTOLUENE	NO
ASAVERYRD	ASAVERYRD	08/03/1999	AIR	0.00	0.00	8330N	PENTAERYTHRITOL TETRANITRATE	NO
ASAVERYRD	ASAVERYRD	08/03/1999	AIR	0.00	0.00	8330N	TETRYL	NO
ASJ1RANGE	ASJ1RANGE	08/03/1999	AIR	0.00	0.00	8330N	2,6-DINITROTOLUENE	NO
ASJ1RANGE	ASJ1RANGE	08/03/1999	AIR	0.00	0.00	8330N	PENTAERYTHRITOL TETRANITRATE	NO
ASJ1RANGE	ASJ1RANGE	08/03/1999	AIR	0.00	0.00	8330N	TETRYL	NO
PUFBLK	PUFLCSD	08/03/1999	AIR	0.00	0.00	8330N	2,6-DINITROTOLUENE	NO
PUFBLK	PUFLCSD	08/03/1999	AIR	0.00	0.00	8330N	PENTAERYTHRITOL TETRANITRATE	NO
PUFBLK	PUFLCSD	08/03/1999	AIR	0.00	0.00	8330N	TETRYL	NO
03MW0040CE	FIELDQC	07/21/1999	FIELDQC	0.00	0.00	8330N	NITROGLYCERIN	NO
G63MBE	FIELDQC	07/20/1999	FIELDQC	0.00	0.00	OC21V	ACETONE	
G63MBE	FIELDQC	07/20/1999	FIELDQC	0.00	0.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G63MJE	FIELDQC	07/21/1999	FIELDQC	0.00	0.00	OC21V	ACETONE	
G63MJE	FIELDQC	07/21/1999	FIELDQC	0.00	0.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G63MPE	FIELDQC	07/22/1999	FIELDQC	0.00	0.00	OC21V	ACETONE	
G63MPE	FIELDQC	07/22/1999	FIELDQC	0.00	0.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G81DSE	FIELDQC	08/16/1999	FIELDQC	0.00	0.00	OC21V	ACETONE	
G81DSE	FIELDQC	08/16/1999	FIELDQC	0.00	0.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G82DLE	FIELDQC	08/23/1999	FIELDQC	0.00	0.00	OC21V	ACETONE	
G82DLE	FIELDQC	08/23/1999	FIELDQC	0.00	0.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G83DAE	FIELDQC	08/18/1999	FIELDQC	0.00	0.00	OC21V	ACETONE	
G83DAE	FIELDQC	08/18/1999	FIELDQC	0.00	0.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G84DME	FIELDQC	08/27/1999	FIELDQC	0.00	0.00	8330N	NITROGLYCERIN	NO
G84DME	FIELDQC	08/27/1999	FIELDQC	0.00	0.00	OC21V	ACETONE	
G84DME	FIELDQC	08/27/1999	FIELDQC	0.00	0.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
HD105MMTRM	FIELDQC	08/06/1999	FIELDQC	0.00	0.00	8330N	NITROGLYCERIN	NO
PPAWSMW-2E	FIELDQC	07/22/1999	FIELDQC	0.00	0.00	8330N	NITROGLYCERIN	NO
S60MAE	FIELDQC	07/20/1999	FIELDQC	0.00	0.00	8330N	NITROGLYCERIN	NO
S60MIE	FIELDQC	07/21/1999	FIELDQC	0.00	0.00	8330N	NITROGLYCERIN	NO

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BWTE = DEPTH BELOW WATER TABLE, END DEPTH, MEASURED IN FEET
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PDA/NO = Photo Diode Array, Detect Not Confirmed

TABLE 3
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/18/99-8/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
W34M1A	MW-34	08/16/1999	GROUNDWATER			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
W34M2A	MW-34	08/16/1999	GROUNDWATER			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
W38M3A	MW-38	08/18/1999	GROUNDWATER			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
W38M4A	MW-38	08/18/1999	GROUNDWATER			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
W39M2A	MW-39	08/18/1999	GROUNDWATER			8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
W43M2A	MW-43	08/23/1999	GROUNDWATER			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
W45SSA	MW-45	08/23/1999	GROUNDWATER			8330N	3-NITROTOLUENE	NO
W45SSA	MW-45	08/23/1999	GROUNDWATER			8330N	4-NITROTOLUENE	NO
W45SSA	MW-45	08/23/1999	GROUNDWATER			8330N	NITROGLYCERIN	NO
W45SSA	MW-45	08/23/1999	GROUNDWATER			8330N	PENTAERYTHRITOL TETRANITRATE	NO
W45SSA	MW-45	08/23/1999	GROUNDWATER			8330N	PICRIC ACID	NO
W50M1A	MW-50	08/24/1999	GROUNDWATER			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
W53DDA	MW-53	08/30/1999	GROUNDWATER			8330N	NITROGLYCERIN	NO
G60MAA	MW-60	07/21/1999	PROFILE	100.00	100.00	8330N	NITROGLYCERIN	NO
G60MAA	MW-60	07/21/1999	PROFILE	100.00	100.00	OC21V	ACETONE	
G60MAA	MW-60	07/21/1999	PROFILE	100.00	100.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G60MAA	MW-60	07/21/1999	PROFILE	100.00	100.00	OC21V	TOLUENE	
G60MBA	MW-60	07/22/1999	PROFILE	110.00	110.00	8330N	3-NITROTOLUENE	NO
G60MBA	MW-60	07/22/1999	PROFILE	110.00	110.00	8330N	NITROBENZENE	NO
G60MBA	MW-60	07/22/1999	PROFILE	110.00	110.00	8330N	NITROGLYCERIN	NO
G60MBA	MW-60	07/22/1999	PROFILE	110.00	110.00	8330N	PICRIC ACID	NO
G60MBA	MW-60	07/22/1999	PROFILE	110.00	110.00	8330N	TETRYL	NO
G60MBA	MW-60	07/22/1999	PROFILE	110.00	110.00	OC21V	ACETONE	
G60MBA	MW-60	07/22/1999	PROFILE	110.00	110.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G60MBA	MW-60	07/22/1999	PROFILE	110.00	110.00	OC21V	METHYLENE CHLORIDE	
G60MBA	MW-60	07/22/1999	PROFILE	110.00	110.00	OC21V	STYRENE	
G60MBA	MW-60	07/22/1999	PROFILE	110.00	110.00	OC21V	TOLUENE	
G60MCA	MW-60	07/22/1999	PROFILE	120.00	120.00	8330N	3-NITROTOLUENE	NO
G60MCA	MW-60	07/22/1999	PROFILE	120.00	120.00	8330N	NITROGLYCERIN	NO
G60MCA	MW-60	07/22/1999	PROFILE	120.00	120.00	8330N	PENTAERYTHRITOL TETRANITRATE	NO
G60MCA	MW-60	07/22/1999	PROFILE	120.00	120.00	8330N	PICRIC ACID	NO
G60MCA	MW-60	07/22/1999	PROFILE	120.00	120.00	OC21V	ACETONE	

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PDA/NO = Photo Diode Array, Detect Not Confirmed

TABLE 3
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/18/99-8/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G60MCA	MW-60	07/22/1999	PROFILE	120.00	120.00	OC21V	METHYLENE CHLORIDE	
G60MCA	MW-60	07/22/1999	PROFILE	120.00	120.00	OC21V	TOLUENE	
G60MDA	MW-60	07/22/1999	PROFILE	130.00	130.00	8330N	3-NITROTOLUENE	NO
G60MDA	MW-60	07/22/1999	PROFILE	130.00	130.00	8330N	NITROGLYCERIN	NO
G60MDA	MW-60	07/22/1999	PROFILE	130.00	130.00	OC21V	ACETONE	
G60MDA	MW-60	07/22/1999	PROFILE	130.00	130.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G60MDA	MW-60	07/22/1999	PROFILE	130.00	130.00	OC21V	TOLUENE	
G60MEA	MW-60	07/22/1999	PROFILE	140.00	140.00	8330N	2,4,6-TRINITROTOLUENE	NO
G60MEA	MW-60	07/22/1999	PROFILE	140.00	140.00	8330N	4-NITROTOLUENE	NO
G60MEA	MW-60	07/22/1999	PROFILE	140.00	140.00	8330N	NITROGLYCERIN	NO
G60MEA	MW-60	07/22/1999	PROFILE	140.00	140.00	8330N	PENTAERYTHRITOL TETRANITRATE	NO
G60MEA	MW-60	07/22/1999	PROFILE	140.00	140.00	8330N	PICRIC ACID	NO
G60MEA	MW-60	07/22/1999	PROFILE	140.00	140.00	OC21V	ACETONE	
G60MEA	MW-60	07/22/1999	PROFILE	140.00	140.00	OC21V	CHLOROFORM	
G60MEA	MW-60	07/22/1999	PROFILE	140.00	140.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G60MEA	MW-60	07/22/1999	PROFILE	140.00	140.00	OC21V	TOLUENE	
G60MFA	MW-60	07/22/1999	PROFILE	150.00	150.00	8330N	3-NITROTOLUENE	NO
G60MFA	MW-60	07/22/1999	PROFILE	150.00	150.00	8330N	NITROGLYCERIN	NO
G60MFA	MW-60	07/22/1999	PROFILE	150.00	150.00	8330N	PICRIC ACID	NO
G60MFA	MW-60	07/22/1999	PROFILE	150.00	150.00	OC21V	ACETONE	
G60MFA	MW-60	07/22/1999	PROFILE	150.00	150.00	OC21V	CHLOROFORM	
G60MFA	MW-60	07/22/1999	PROFILE	150.00	150.00	OC21V	TOLUENE	
G60MGA	MW-60	07/22/1999	PROFILE	160.00	160.00	8330N	NITROGLYCERIN	NO
G60MGA	MW-60	07/22/1999	PROFILE	160.00	160.00	8330N	PICRIC ACID	NO
G60MGA	MW-60	07/22/1999	PROFILE	160.00	160.00	OC21V	ACETONE	
G60MGA	MW-60	07/22/1999	PROFILE	160.00	160.00	OC21V	CHLOROFORM	
G60MGA	MW-60	07/22/1999	PROFILE	160.00	160.00	OC21V	TOLUENE	
G60MHA	MW-60	07/22/1999	PROFILE	170.00	170.00	8330N	3-NITROTOLUENE	NO
G60MHA	MW-60	07/22/1999	PROFILE	170.00	170.00	8330N	4-NITROTOLUENE	NO
G60MHA	MW-60	07/22/1999	PROFILE	170.00	170.00	8330N	NITROGLYCERIN	NO
G60MHA	MW-60	07/22/1999	PROFILE	170.00	170.00	8330N	PICRIC ACID	NO
G60MHA	MW-60	07/22/1999	PROFILE	170.00	170.00	OC21V	ACETONE	

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PDA/NO = Photo Diode Array, Detect Not Confirmed

TABLE 3
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/18/99-8/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G60MHA	MW-60	07/22/1999	PROFILE	170.00	170.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G60MHA	MW-60	07/22/1999	PROFILE	170.00	170.00	OC21V	TOLUENE	
G60MHD	MW-60	07/22/1999	PROFILE	170.00	170.00	8330N	3-NITROTOLUENE	NO
G60MHD	MW-60	07/22/1999	PROFILE	170.00	170.00	8330N	4-NITROTOLUENE	NO
G60MHD	MW-60	07/22/1999	PROFILE	170.00	170.00	8330N	NITROGLYCERIN	NO
G60MHD	MW-60	07/22/1999	PROFILE	170.00	170.00	8330N	PICRIC ACID	NO
G60MHD	MW-60	07/22/1999	PROFILE	170.00	170.00	OC21V	ACETONE	
G60MHD	MW-60	07/22/1999	PROFILE	170.00	170.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G60MHD	MW-60	07/22/1999	PROFILE	170.00	170.00	OC21V	TOLUENE	
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	8330N	2,6-DINITROTOLUENE	YES
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	8330N	3-NITROTOLUENE	NO
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	8330N	4-NITROTOLUENE	NO
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	8330N	NITROGLYCERIN	NO
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	8330N	PICRIC ACID	NO
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	OC21V	ACETONE	
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	OC21V	CHLOROFORM	
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	OC21V	STYRENE	
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	OC21V	TOLUENE	
G60MIA	MW-60	07/22/1999	PROFILE	180.00	180.00	OC21V	XYLENES, TOTAL	
G60MJA	MW-60	07/22/1999	PROFILE	190.00	190.00	8330N	2,4,6-TRINITROTOLUENE	NO
G60MJA	MW-60	07/22/1999	PROFILE	190.00	190.00	8330N	3-NITROTOLUENE	NO
G60MJA	MW-60	07/22/1999	PROFILE	190.00	190.00	8330N	4-NITROTOLUENE	NO
G60MJA	MW-60	07/22/1999	PROFILE	190.00	190.00	8330N	NITROGLYCERIN	NO
G60MJA	MW-60	07/22/1999	PROFILE	190.00	190.00	8330N	PICRIC ACID	NO
G60MJA	MW-60	07/22/1999	PROFILE	190.00	190.00	OC21V	ACETONE	
G60MJA	MW-60	07/22/1999	PROFILE	190.00	190.00	OC21V	CHLOROFORM	
G60MJA	MW-60	07/22/1999	PROFILE	190.00	190.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G60MJA	MW-60	07/22/1999	PROFILE	190.00	190.00	OC21V	TOLUENE	
G60MKA	MW-60	07/23/1999	PROFILE	200.00	200.00	8330N	3-NITROTOLUENE	NO
G60MKA	MW-60	07/23/1999	PROFILE	200.00	200.00	8330N	4-NITROTOLUENE	NO
G60MKA	MW-60	07/23/1999	PROFILE	200.00	200.00	8330N	NITROGLYCERIN	NO

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TABLE 3
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/18/99-8/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G60MKA	MW-60	07/23/1999	PROFILE	200.00	200.00	8330N	PICRIC ACID	NO
G60MKA	MW-60	07/23/1999	PROFILE	200.00	200.00	OC21V	ACETONE	
G60MKA	MW-60	07/23/1999	PROFILE	200.00	200.00	OC21V	CHLOROFORM	
G60MKA	MW-60	07/23/1999	PROFILE	200.00	200.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G60MKA	MW-60	07/23/1999	PROFILE	200.00	200.00	OC21V	STYRENE	
G60MKA	MW-60	07/23/1999	PROFILE	200.00	200.00	OC21V	TOLUENE	
G60MKA	MW-60	07/23/1999	PROFILE	200.00	200.00	OC21V	XYLENES, TOTAL	
G61MAA	MW-61	07/29/1999	PROFILE	105.00	105.00	OC21V	ACETONE	
G61MAA	MW-61	07/29/1999	PROFILE	105.00	105.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G61MBA	MW-61	07/30/1999	PROFILE	110.00	110.00	8330N	2,6-DINITROTOLUENE	YES
G61MBA	MW-61	07/30/1999	PROFILE	110.00	110.00	8330N	3-NITROTOLUENE	NO
G61MBA	MW-61	07/30/1999	PROFILE	110.00	110.00	8330N	4-NITROTOLUENE	NO
G61MBA	MW-61	07/30/1999	PROFILE	110.00	110.00	8330N	NITROGLYCERIN	NO
G61MBA	MW-61	07/30/1999	PROFILE	110.00	110.00	OC21V	ACETONE	
G61MBA	MW-61	07/30/1999	PROFILE	110.00	110.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G61MCA	MW-61	07/30/1999	PROFILE	120.00	120.00	8330N	3-NITROTOLUENE	NO
G61MCA	MW-61	07/30/1999	PROFILE	120.00	120.00	8330N	4-NITROTOLUENE	NO
G61MCA	MW-61	07/30/1999	PROFILE	120.00	120.00	8330N	NITROGLYCERIN	NO
G61MCA	MW-61	07/30/1999	PROFILE	120.00	120.00	8330N	PENTAERYTHRITOL TETRANITRATE	NO
G61MCA	MW-61	07/30/1999	PROFILE	120.00	120.00	OC21V	ACETONE	
G61MCA	MW-61	07/30/1999	PROFILE	120.00	120.00	OC21V	CHLOROETHANE	
G61MCA	MW-61	07/30/1999	PROFILE	120.00	120.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G61MDA	MW-61	07/30/1999	PROFILE	130.00	130.00	OC21V	ACETONE	
G61MDA	MW-61	07/30/1999	PROFILE	130.00	130.00	OC21V	CHLOROFORM	
G61MEA	MW-61	07/30/1999	PROFILE	140.00	140.00	8330N	2,6-DINITROTOLUENE	YES
G61MEA	MW-61	07/30/1999	PROFILE	140.00	140.00	8330N	3-NITROTOLUENE	NO
G61MEA	MW-61	07/30/1999	PROFILE	140.00	140.00	8330N	4-NITROTOLUENE	NO
G61MEA	MW-61	07/30/1999	PROFILE	140.00	140.00	OC21V	ACETONE	
G61MEA	MW-61	07/30/1999	PROFILE	140.00	140.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G61MFA	MW-61	07/30/1999	PROFILE	150.00	150.00	8330N	3-NITROTOLUENE	NO
G61MFA	MW-61	07/30/1999	PROFILE	150.00	150.00	8330N	4-NITROTOLUENE	NO
G61MFA	MW-61	07/30/1999	PROFILE	150.00	150.00	8330N	NITROGLYCERIN	NO

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PDA/YES = Photo Diode Array, Detect Confirmed
PDA/NO = Photo Diode Array, Detect Not Confirmed

TABLE 3
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/18/99-8/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G61MFA	MW-61	07/30/1999	PROFILE	150.00	150.00	8330N	PENTAERYTHRITOL TETRANITRATE	NO
G61MFA	MW-61	07/30/1999	PROFILE	150.00	150.00	OC21V	ACETONE	
G61MFA	MW-61	07/30/1999	PROFILE	150.00	150.00	OC21V	CHLOROFORM	
G61MGA	MW-61	07/30/1999	PROFILE	160.00	160.00	8330N	3-NITROTOLUENE	NO
G61MGA	MW-61	07/30/1999	PROFILE	160.00	160.00	8330N	4-NITROTOLUENE	NO
G61MGA	MW-61	07/30/1999	PROFILE	160.00	160.00	8330N	NITROGLYCERIN	NO
G61MGA	MW-61	07/30/1999	PROFILE	160.00	160.00	8330N	PENTAERYTHRITOL TETRANITRATE	NO
G61MGA	MW-61	07/30/1999	PROFILE	160.00	160.00	OC21V	ACETONE	
G61MGA	MW-61	07/30/1999	PROFILE	160.00	160.00	OC21V	CHLOROFORM	
G61MGA	MW-61	07/30/1999	PROFILE	160.00	160.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G61MHA	MW-61	08/02/1999	PROFILE	170.00	170.00	8330N	3-NITROTOLUENE	NO
G61MHA	MW-61	08/02/1999	PROFILE	170.00	170.00	8330N	4-NITROTOLUENE	NO
G61MHA	MW-61	08/02/1999	PROFILE	170.00	170.00	OC21V	2-HEXANONE	
G61MHA	MW-61	08/02/1999	PROFILE	170.00	170.00	OC21V	ACETONE	
G61MHA	MW-61	08/02/1999	PROFILE	170.00	170.00	OC21V	CHLOROFORM	
G61MHA	MW-61	08/02/1999	PROFILE	170.00	170.00	OC21V	CHLOROMETHANE	
G61MHA	MW-61	08/02/1999	PROFILE	170.00	170.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G61MIA	MW-61	08/02/1999	PROFILE	180.00	180.00	8330N	3-NITROTOLUENE	NO
G61MIA	MW-61	08/02/1999	PROFILE	180.00	180.00	8330N	4-NITROTOLUENE	NO
G61MIA	MW-61	08/02/1999	PROFILE	180.00	180.00	8330N	NITROGLYCERIN	NO
G61MIA	MW-61	08/02/1999	PROFILE	180.00	180.00	OC21V	ACETONE	
G61MIA	MW-61	08/02/1999	PROFILE	180.00	180.00	OC21V	CHLOROFORM	
G61MIA	MW-61	08/02/1999	PROFILE	180.00	180.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G61MJA	MW-61	08/02/1999	PROFILE	190.00	190.00	8330N	NITROGLYCERIN	NO
G61MJA	MW-61	08/02/1999	PROFILE	190.00	190.00	OC21V	ACETONE	
G61MJA	MW-61	08/02/1999	PROFILE	190.00	190.00	OC21V	CHLOROFORM	
G61MKA	MW-61	08/02/1999	PROFILE	200.00	200.00	8330N	NITROGLYCERIN	NO
G61MKA	MW-61	08/02/1999	PROFILE	200.00	200.00	OC21V	ACETONE	
G61MKA	MW-61	08/02/1999	PROFILE	200.00	200.00	OC21V	CHLOROFORM	
G62DAA	MW-62	08/30/1999	PROFILE	135.00	135.00	8330N	2-NITROTOLUENE	NO
G62DAA	MW-62	08/30/1999	PROFILE	135.00	135.00	8330N	3-NITROTOLUENE	NO
G62DAA	MW-62	08/30/1999	PROFILE	135.00	135.00	8330N	4-NITROTOLUENE	NO

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PDA/NO = Photo Diode Array, Detect Not Confirmed

TABLE 3
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/18/99-8/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G62DAA	MW-62	08/30/1999	PROFILE	135.00	135.00	8330N	NITROGLYCERIN	NO
G62DAA	MW-62	08/30/1999	PROFILE	135.00	135.00	8330N	PICRIC ACID	NO
G62DBA	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	2,6-DINITROTOLUENE	NO
G62DBA	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	2-NITROTOLUENE	NO
G62DBA	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	3-NITROTOLUENE	NO
G62DBA	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	4-NITROTOLUENE	NO
G62DBA	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	NITROGLYCERIN	NO
G62DBA	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	PENTAERYTHRITOL TETRANITRATE	NO
G62DBA	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	PICRIC ACID	NO
G62DBD	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	2,6-DINITROTOLUENE	NO
G62DBD	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	2-NITROTOLUENE	NO
G62DBD	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	3-NITROTOLUENE	NO
G62DBD	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	4-NITROTOLUENE	NO
G62DBD	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	NITROGLYCERIN	NO
G62DBD	MW-62	08/30/1999	PROFILE	140.00	140.00	8330N	PICRIC ACID	NO
G62DCA	MW-62	08/31/1999	PROFILE	150.00	150.00	8330N	1,3,5-TRINITROBENZENE	NO
G62DCA	MW-62	08/31/1999	PROFILE	150.00	150.00	8330N	1,3-DINITROBENZENE	NO
G62DCA	MW-62	08/31/1999	PROFILE	150.00	150.00	8330N	2-NITROTOLUENE	NO
G62DCA	MW-62	08/31/1999	PROFILE	150.00	150.00	8330N	3-NITROTOLUENE	NO
G62DCA	MW-62	08/31/1999	PROFILE	150.00	150.00	8330N	4-NITROTOLUENE	NO
G62DCA	MW-62	08/31/1999	PROFILE	150.00	150.00	8330N	NITROGLYCERIN	NO
G62DCA	MW-62	08/31/1999	PROFILE	150.00	150.00	8330N	PICRIC ACID	NO
G62DDA	MW-62	08/31/1999	PROFILE	160.00	160.00	8330N	2-NITROTOLUENE	NO
G62DDA	MW-62	08/31/1999	PROFILE	160.00	160.00	8330N	3-NITROTOLUENE	NO
G62DDA	MW-62	08/31/1999	PROFILE	160.00	160.00	8330N	4-NITROTOLUENE	NO
G62DDA	MW-62	08/31/1999	PROFILE	160.00	160.00	8330N	NITROGLYCERIN	NO
G62DDA	MW-62	08/31/1999	PROFILE	160.00	160.00	8330N	PICRIC ACID	NO
G62DEA	MW-62	08/31/1999	PROFILE	170.00	170.00	8330N	NITROGLYCERIN	NO
G62DEA	MW-62	08/31/1999	PROFILE	170.00	170.00	8330N	PICRIC ACID	NO
G62DFA	MW-62	08/31/1999	PROFILE	180.00	180.00	8330N	2-NITROTOLUENE	NO
G62DFA	MW-62	08/31/1999	PROFILE	180.00	180.00	8330N	3-NITROTOLUENE	NO
G62DFA	MW-62	08/31/1999	PROFILE	180.00	180.00	8330N	4-NITROTOLUENE	NO

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TABLE 3
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/18/99-8/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G62DFA	MW-62	08/31/1999	PROFILE	180.00	180.00	8330N	NITROGLYCERIN	NO
G62DFA	MW-62	08/31/1999	PROFILE	180.00	180.00	8330N	PICRIC ACID	NO
G63MAA	MW-63	07/20/1999	PROFILE	150.00	155.00	OC21V	ACETONE	
G63MAA	MW-63	07/20/1999	PROFILE	150.00	155.00	OC21V	CHLOROFORM	
G63MBA	MW-63	07/20/1999	PROFILE	160.00	165.00	8330N	4-NITROTOLUENE	NO
G63MBA	MW-63	07/20/1999	PROFILE	160.00	165.00	8330N	NITROGLYCERIN	NO
G63MBA	MW-63	07/20/1999	PROFILE	160.00	165.00	OC21V	ACETONE	
G63MBA	MW-63	07/20/1999	PROFILE	160.00	165.00	OC21V	CHLOROFORM	
G63MBA	MW-63	07/20/1999	PROFILE	160.00	165.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G63MCA	MW-63	07/20/1999	PROFILE	170.00	175.00	OC21V	CHLOROFORM	
G63MDA	MW-63	07/20/1999	PROFILE	180.00	185.00	OC21V	CHLOROFORM	
G63MDA	MW-63	07/20/1999	PROFILE	180.00	185.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G63MDA	MW-63	07/20/1999	PROFILE	180.00	185.00	OC21V	TOLUENE	
G63MEA	MW-63	07/20/1999	PROFILE	190.00	195.00	OC21V	CHLOROFORM	
G63MEA	MW-63	07/20/1999	PROFILE	190.00	195.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G63MEA	MW-63	07/20/1999	PROFILE	190.00	195.00	OC21V	TOLUENE	
G63MFA	MW-63	07/20/1999	PROFILE	200.00	205.00	OC21V	CHLOROFORM	
G63MGA	MW-63	07/20/1999	PROFILE	210.00	215.00	OC21V	CHLOROFORM	
G63MGD	MW-63	07/20/1999	PROFILE	210.00	215.00	OC21V	CHLOROFORM	
G63MHA	MW-63	07/21/1999	PROFILE	220.00	225.00	OC21V	CHLOROFORM	
G63MHA	MW-63	07/21/1999	PROFILE	220.00	225.00	OC21V	CHLOROMETHANE	
G63MIA	MW-63	07/21/1999	PROFILE	230.00	235.00	OC21V	CHLOROFORM	
G63MIA	MW-63	07/21/1999	PROFILE	230.00	235.00	OC21V	CHLOROMETHANE	
G63MJA	MW-63	07/21/1999	PROFILE	240.00	245.00	OC21V	CHLOROFORM	
G63MJA	MW-63	07/21/1999	PROFILE	240.00	245.00	OC21V	CHLOROMETHANE	
G63MKA	MW-63	07/21/1999	PROFILE	250.00	255.00	OC21V	CHLOROFORM	
G63MKA	MW-63	07/21/1999	PROFILE	250.00	255.00	OC21V	CHLOROMETHANE	
G63MLA	MW-63	07/21/1999	PROFILE	260.00	265.00	OC21V	CHLOROFORM	
G63MLA	MW-63	07/21/1999	PROFILE	260.00	265.00	OC21V	CHLOROMETHANE	
G63MMA	MW-63	07/21/1999	PROFILE	270.00	275.00	OC21V	CHLOROFORM	
G63MMA	MW-63	07/21/1999	PROFILE	270.00	275.00	OC21V	CHLOROMETHANE	
G63MNA	MW-63	07/21/1999	PROFILE	280.00	285.00	OC21V	CHLOROFORM	

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TABLE 3
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/18/99-8/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G63MNA	MW-63	07/21/1999	PROFILE	280.00	285.00	OC21V	CHLOROMETHANE	
G63MOA	MW-63	07/22/1999	PROFILE	290.00	295.00	OC21V	CHLOROFORM	
G63MPA	MW-63	07/22/1999	PROFILE	300.00	305.00	OC21V	CHLOROFORM	
G63MPA	MW-63	07/22/1999	PROFILE	300.00	305.00	OC21V	CHLOROMETHANE	
G64DAA	MW-64	08/31/1999	PROFILE	92.00	95.00	8330N	3-NITROTOLUENE	NO
G64DAA	MW-64	08/31/1999	PROFILE	92.00	95.00	8330N	NITROGLYCERIN	NO
G64DAA	MW-64	08/31/1999	PROFILE	92.00	95.00	8330N	PICRIC ACID	NO
G64DAA	MW-64	08/31/1999	PROFILE	92.00	95.00	OC21V	ACETONE	
G64DBA	MW-64	08/31/1999	PROFILE	100.00	105.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
G64DBA	MW-64	08/31/1999	PROFILE	100.00	105.00	8330N	NITROGLYCERIN	NO
G64DBA	MW-64	08/31/1999	PROFILE	100.00	105.00	8330N	PICRIC ACID	NO
G64DBA	MW-64	08/31/1999	PROFILE	100.00	105.00	OC21V	ACETONE	
G80DAA	MW-80	07/29/1999	PROFILE	40.00	45.00	8330N	3-NITROTOLUENE	NO
G80DAA	MW-80	07/29/1999	PROFILE	40.00	45.00	8330N	NITROGLYCERIN	NO
G80DAA	MW-80	07/29/1999	PROFILE	40.00	45.00	8330N	PICRIC ACID	NO
G80DAA	MW-80	07/29/1999	PROFILE	40.00	45.00	OC21V	ACETONE	
G80DAA	MW-80	07/29/1999	PROFILE	40.00	45.00	OC21V	CHLOROFORM	
G80DBA	MW-80	07/29/1999	PROFILE	50.00	55.00	8330N	3-NITROTOLUENE	NO
G80DBA	MW-80	07/29/1999	PROFILE	50.00	55.00	8330N	4-NITROTOLUENE	NO
G80DBA	MW-80	07/29/1999	PROFILE	50.00	55.00	8330N	NITROGLYCERIN	NO
G80DBA	MW-80	07/29/1999	PROFILE	50.00	55.00	OC21V	ACETONE	
G80DBA	MW-80	07/29/1999	PROFILE	50.00	55.00	OC21V	CHLOROFORM	
G80DCA	MW-80	07/30/1999	PROFILE	60.00	65.00	OC21V	CHLOROFORM	
G80DCD	MW-80	07/30/1999	PROFILE	60.00	65.00	OC21V	CHLOROFORM	
G80DDA	MW-80	07/30/1999	PROFILE	70.00	75.00	OC21V	CHLOROFORM	
G80DDA	MW-80	07/30/1999	PROFILE	70.00	75.00	OC21V	TOLUENE	
G80DEA	MW-80	07/30/1999	PROFILE	80.00	85.00	OC21V	CHLOROFORM	
G80DFA	MW-80	07/30/1999	PROFILE	90.00	95.00	OC21V	CHLOROFORM	
G80DGA	MW-80	07/30/1999	PROFILE	100.00	105.00	OC21V	CHLOROFORM	
G80DHA	MW-80	07/30/1999	PROFILE	110.00	115.00	OC21V	CHLOROFORM	
G80DHA	MW-80	07/30/1999	PROFILE	110.00	115.00	OC21V	TOLUENE	
G80DIA	MW-80	07/30/1999	PROFILE	120.00	125.00	OC21V	CHLOROFORM	

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(UNVALIDATED)
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OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G80DJA	MW-80	07/30/1999	PROFILE	130.00	135.00	OC21V	CHLOROFORM	
G80DKA	MW-80	07/30/1999	PROFILE	140.00	145.00	OC21V	CHLOROFORM	
G80DMA	MW-80	08/03/1999	PROFILE	160.00	165.00	OC21V	TOLUENE	
G80DPA	MW-80	08/03/1999	PROFILE	190.00	195.00	8330N	NITROGLYCERIN	NO
G80DPA	MW-80	08/03/1999	PROFILE	190.00	195.00	OC21V	TOLUENE	
G80DPD	MW-80	08/03/1999	PROFILE	190.00	195.00	OC21V	TOLUENE	
G80DRA	MW-80	08/04/1999	PROFILE	210.00	215.00	8330N	NITROGLYCERIN	NO
G80DRA	MW-80	08/04/1999	PROFILE	210.00	215.00	8330N	PICRIC ACID	NO
G80DRA	MW-80	08/04/1999	PROFILE	210.00	215.00	OC21V	TOLUENE	
G81DAA	MW-81	08/11/1999	PROFILE	30.00	35.00	OC21V	ACETONE	
G81DAA	MW-81	08/11/1999	PROFILE	30.00	35.00	OC21V	CHLOROFORM	
G81DBA	MW-81	08/11/1999	PROFILE	40.00	45.00	OC21V	CHLOROFORM	
G81DCA	MW-81	08/12/1999	PROFILE	50.00	55.00	OC21V	CHLOROFORM	
G81DCD	MW-81	08/12/1999	PROFILE	50.00	55.00	OC21V	CHLOROFORM	
G81DDA	MW-81	08/12/1999	PROFILE	60.00	65.00	OC21V	CHLOROFORM	
G81DEA	MW-81	08/12/1999	PROFILE	70.00	75.00	OC21V	CHLOROFORM	
G81DFA	MW-81	08/12/1999	PROFILE	80.00	85.00	OC21V	CHLOROFORM	
G81DGA	MW-81	08/12/1999	PROFILE	90.00	95.00	OC21V	CHLOROFORM	
G81DHA	MW-81	08/12/1999	PROFILE	100.00	105.00	OC21V	CHLOROFORM	
G81DIA	MW-81	08/12/1999	PROFILE	110.00	115.00	OC21V	CARBON DISULFIDE	
G81DIA	MW-81	08/12/1999	PROFILE	110.00	115.00	OC21V	TOLUENE	
G81DJA	MW-81	08/12/1999	PROFILE	120.00	125.00	OC21V	ACETONE	
G81DJA	MW-81	08/12/1999	PROFILE	120.00	125.00	OC21V	CHLOROFORM	
G81DKA	MW-81	08/12/1999	PROFILE	130.00	135.00	OC21V	CHLOROFORM	
G81DKA	MW-81	08/12/1999	PROFILE	130.00	135.00	OC21V	TOLUENE	
G81DLA	MW-81	08/13/1999	PROFILE	140.00	145.00	OC21V	CHLOROFORM	
G81DLA	MW-81	08/13/1999	PROFILE	140.00	145.00	OC21V	TOLUENE	
G81DMA	MW-81	08/13/1999	PROFILE	150.00	155.00	OC21V	ACETONE	
G81DMA	MW-81	08/13/1999	PROFILE	150.00	155.00	OC21V	CHLOROFORM	
G81DMA	MW-81	08/13/1999	PROFILE	150.00	155.00	OC21V	TOLUENE	
G81DNA	MW-81	08/13/1999	PROFILE	160.00	165.00	OC21V	CHLOROFORM	
G81DNA	MW-81	08/13/1999	PROFILE	160.00	165.00	OC21V	TOLUENE	

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

TABLE 3
DETECTED COMPOUNDS IN RUSH DATA
(UNVALIDATED)
SAMPLES COLLECTED 7/18/99-8/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G81DND	MW-81	08/13/1999	PROFILE	160.00	165.00	OC21V	CHLOROFORM	
G81DOA	MW-81	08/13/1999	PROFILE	170.00	175.00	OC21V	CHLOROFORM	
G81DOA	MW-81	08/13/1999	PROFILE	170.00	175.00	OC21V	TOLUENE	
G81DPA	MW-81	08/16/1999	PROFILE	180.00	185.00	OC21V	CHLOROFORM	
G81DQA	MW-81	08/16/1999	PROFILE	190.00	195.00	OC21V	CHLOROFORM	
G81DRA	MW-81	08/16/1999	PROFILE	200.00	205.00	OC21V	CHLOROFORM	
G81DSA	MW-81	08/16/1999	PROFILE	210.00	215.00	OC21V	CHLOROFORM	
G81DTA	MW-81	08/16/1999	PROFILE	220.00	225.00	OC21V	CHLOROFORM	
G81DUA	MW-81	08/16/1999	PROFILE	230.00	235.00	8330N	3-NITROTOLUENE	NO
G81DUA	MW-81	08/16/1999	PROFILE	230.00	235.00	8330N	NITROGLYCERIN	NO
G82DAA	MW-82	08/17/1999	PROFILE	32.00	32.00	8330N	3-NITROTOLUENE	NO
G82DAA	MW-82	08/17/1999	PROFILE	32.00	32.00	8330N	NITROGLYCERIN	NO
G82DAA	MW-82	08/17/1999	PROFILE	32.00	32.00	OC21V	2-HEXANONE	
G82DAA	MW-82	08/17/1999	PROFILE	32.00	32.00	OC21V	ACETONE	
G82DAA	MW-82	08/17/1999	PROFILE	32.00	32.00	OC21V	CHLOROFORM	
G82DAA	MW-82	08/17/1999	PROFILE	32.00	32.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G82DAA	MW-82	08/17/1999	PROFILE	32.00	32.00	OC21V	TOLUENE	
G82DBA	MW-82	08/17/1999	PROFILE	40.00	45.00	8330N	3-NITROTOLUENE	NO
G82DBA	MW-82	08/17/1999	PROFILE	40.00	45.00	8330N	NITROGLYCERIN	NO
G82DBA	MW-82	08/17/1999	PROFILE	40.00	45.00	OC21V	2-HEXANONE	
G82DBA	MW-82	08/17/1999	PROFILE	40.00	45.00	OC21V	ACETONE	
G82DBA	MW-82	08/17/1999	PROFILE	40.00	45.00	OC21V	CHLOROFORM	
G82DBA	MW-82	08/17/1999	PROFILE	40.00	45.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G82DBA	MW-82	08/17/1999	PROFILE	40.00	45.00	OC21V	TOLUENE	
G82DCA	MW-82	08/17/1999	PROFILE	50.00	55.00	OC21V	ACETONE	
G82DCA	MW-82	08/17/1999	PROFILE	50.00	55.00	OC21V	CHLOROFORM	
G82DCA	MW-82	08/17/1999	PROFILE	50.00	55.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G82DCA	MW-82	08/17/1999	PROFILE	50.00	55.00	OC21V	TOLUENE	
G82DDA	MW-82	08/18/1999	PROFILE	60.00	65.00	OC21V	ACETONE	
G82DDA	MW-82	08/18/1999	PROFILE	60.00	65.00	OC21V	CHLOROFORM	
G82DDA	MW-82	08/18/1999	PROFILE	60.00	65.00	OC21V	TOLUENE	
G82DEA	MW-82	08/18/1999	PROFILE	70.00	75.00	OC21V	ACETONE	

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(UNVALIDATED)
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OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G82DEA	MW-82	08/18/1999	PROFILE	70.00	75.00	OC21V	CHLOROFORM	
G82DEA	MW-82	08/18/1999	PROFILE	70.00	75.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G82DEA	MW-82	08/18/1999	PROFILE	70.00	75.00	OC21V	TOLUENE	
G82DFA	MW-82	08/18/1999	PROFILE	80.00	85.00	OC21V	ACETONE	
G82DFA	MW-82	08/18/1999	PROFILE	80.00	85.00	OC21V	CHLOROFORM	
G82DFA	MW-82	08/18/1999	PROFILE	80.00	85.00	OC21V	TOLUENE	
G82DGA	MW-82	08/18/1999	PROFILE	90.00	95.00	OC21V	ACETONE	
G82DGA	MW-82	08/18/1999	PROFILE	90.00	95.00	OC21V	CHLOROFORM	
G82DGA	MW-82	08/18/1999	PROFILE	90.00	95.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G82DGA	MW-82	08/18/1999	PROFILE	90.00	95.00	OC21V	TOLUENE	
G82DHA	MW-82	08/18/1999	PROFILE	100.00	105.00	OC21V	ACETONE	
G82DHA	MW-82	08/18/1999	PROFILE	100.00	105.00	OC21V	CHLOROFORM	
G82DHA	MW-82	08/18/1999	PROFILE	100.00	105.00	OC21V	TOLUENE	
G82DIA	MW-82	08/18/1999	PROFILE	110.00	115.00	OC21V	CHLOROFORM	
G82DKA	MW-82	08/20/1999	PROFILE	130.00	135.00	OC21V	CHLOROFORM	
G82DLA	MW-82	08/23/1999	PROFILE	140.00	145.00	OC21V	CHLOROFORM	
G82DNA	MW-82	08/23/1999	PROFILE	160.00	165.00	OC21V	CHLOROFORM	
G82DND	MW-82	08/23/1999	PROFILE	160.00	165.00	OC21V	CHLOROFORM	
G83DAA	MW-83	08/18/1999	PROFILE	37.00	42.00	OC21V	ACETONE	
G83DAA	MW-83	08/18/1999	PROFILE	37.00	42.00	OC21V	CHLOROFORM	
G83DAA	MW-83	08/18/1999	PROFILE	37.00	42.00	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G83DAA	MW-83	08/18/1999	PROFILE	37.00	42.00	OC21V	TOLUENE	
G83DBA	MW-83	08/18/1999	PROFILE	50.00	55.00	OC21V	ACETONE	
G83DBA	MW-83	08/18/1999	PROFILE	50.00	55.00	OC21V	CHLOROFORM	
G83DBA	MW-83	08/18/1999	PROFILE	50.00	55.00	OC21V	TOLUENE	
G83DCA	MW-83	08/19/1999	PROFILE	60.00	65.00	OC21V	CHLOROFORM	
G83DCA	MW-83	08/19/1999	PROFILE	60.00	65.00	OC21V	TOLUENE	
G83DDA	MW-83	08/19/1999	PROFILE	70.00	75.00	OC21V	CHLOROFORM	
G83DDA	MW-83	08/19/1999	PROFILE	70.00	75.00	OC21V	TOLUENE	
G83DEA	MW-83	08/19/1999	PROFILE	80.00	85.00	OC21V	CHLOROFORM	
G83DEA	MW-83	08/19/1999	PROFILE	80.00	85.00	OC21V	TOLUENE	
G83DFA	MW-83	08/19/1999	PROFILE	90.00	95.00	OC21V	CHLOROFORM	

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G83DFA	MW-83	08/19/1999	PROFILE	90.00	95.00	OC21V	TOLUENE	
G83DGA	MW-83	08/19/1999	PROFILE	100.00	105.00	OC21V	CHLOROFORM	
G83DGA	MW-83	08/19/1999	PROFILE	100.00	105.00	OC21V	TOLUENE	
G83DHA	MW-83	08/19/1999	PROFILE	110.00	115.00	OC21V	TOLUENE	
G83DIA	MW-83	08/19/1999	PROFILE	120.00	125.00	OC21V	CHLOROFORM	
G83DJA	MW-83	08/19/1999	PROFILE	130.00	135.00	OC21V	CHLOROFORM	
G83DKA	MW-83	08/19/1999	PROFILE	140.00	145.00	OC21V	CHLOROFORM	
G83DLA	MW-83	08/20/1999	PROFILE	150.00	155.00	OC21V	CHLOROFORM	
G83DMA	MW-83	08/20/1999	PROFILE	160.00	165.00	8330N	PICRIC ACID	NO
G83DNA	MW-83	08/20/1999	PROFILE	170.00	175.00	OC21V	ACETONE	
G83DOA	MW-83	08/23/1999	PROFILE	180.00	185.00	8330N	3-NITROTOLUENE	NO
G83DOA	MW-83	08/23/1999	PROFILE	180.00	185.00	8330N	PICRIC ACID	NO
G83DOA	MW-83	08/23/1999	PROFILE	180.00	185.00	OC21V	STYRENE	
G83DOA	MW-83	08/23/1999	PROFILE	180.00	185.00	OC21V	TOLUENE	
G83DPA	MW-83	08/23/1999	PROFILE	190.00	195.00	OC21V	ACETONE	
G83DPA	MW-83	08/23/1999	PROFILE	190.00	195.00	OC21V	TOLUENE	
G84DAA	MW-84	08/25/1999	PROFILE	40.00	45.00	OC21V	ACETONE	
G84DBA	MW-84	08/25/1999	PROFILE	50.00	55.00	OC21V	CHLOROFORM	
G84DCA	MW-84	08/25/1999	PROFILE	60.00	65.00	OC21V	CHLOROFORM	
G84DDA	MW-84	08/25/1999	PROFILE	70.00	75.00	OC21V	CHLOROFORM	
G84DEA	MW-84	08/25/1999	PROFILE	80.00	85.00	OC21V	CHLOROFORM	
G84DFA	MW-84	08/25/1999	PROFILE	90.00	95.00	OC21V	CHLOROFORM	
G84DGA	MW-84	08/26/1999	PROFILE	100.00	105.00	OC21V	CHLOROFORM	
G84DHA	MW-84	08/26/1999	PROFILE	110.00	115.00	OC21V	CHLOROFORM	
G84DIA	MW-84	08/26/1999	PROFILE	120.00	125.00	OC21V	CHLOROFORM	
G84DJA	MW-84	08/26/1999	PROFILE	130.00	135.00	OC21V	CHLOROFORM	
G84DKA	MW-84	08/26/1999	PROFILE	140.00	145.00	OC21V	CHLOROFORM	
G84DLA	MW-84	08/26/1999	PROFILE	150.00	155.00	OC21V	CHLOROFORM	
G84DMA	MW-84	08/27/1999	PROFILE	160.00	165.00	OC21V	CHLOROFORM	
G84DNA	MW-84	08/27/1999	PROFILE	170.00	175.00	OC21V	CHLOROFORM	
G84DOA	MW-84	08/27/1999	PROFILE	180.00	185.00	OC21V	CHLOROFORM	
G84DPA	MW-84	08/27/1999	PROFILE	190.00	195.00	OC21V	CHLOROFORM	

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G84DQA	MW-84	08/27/1999	PROFILE	200.00	205.00	OC21V	CHLOROFORM	
G84DRA	MW-84	08/30/1999	PROFILE	208.00	213.00	OC21V	ACETONE	

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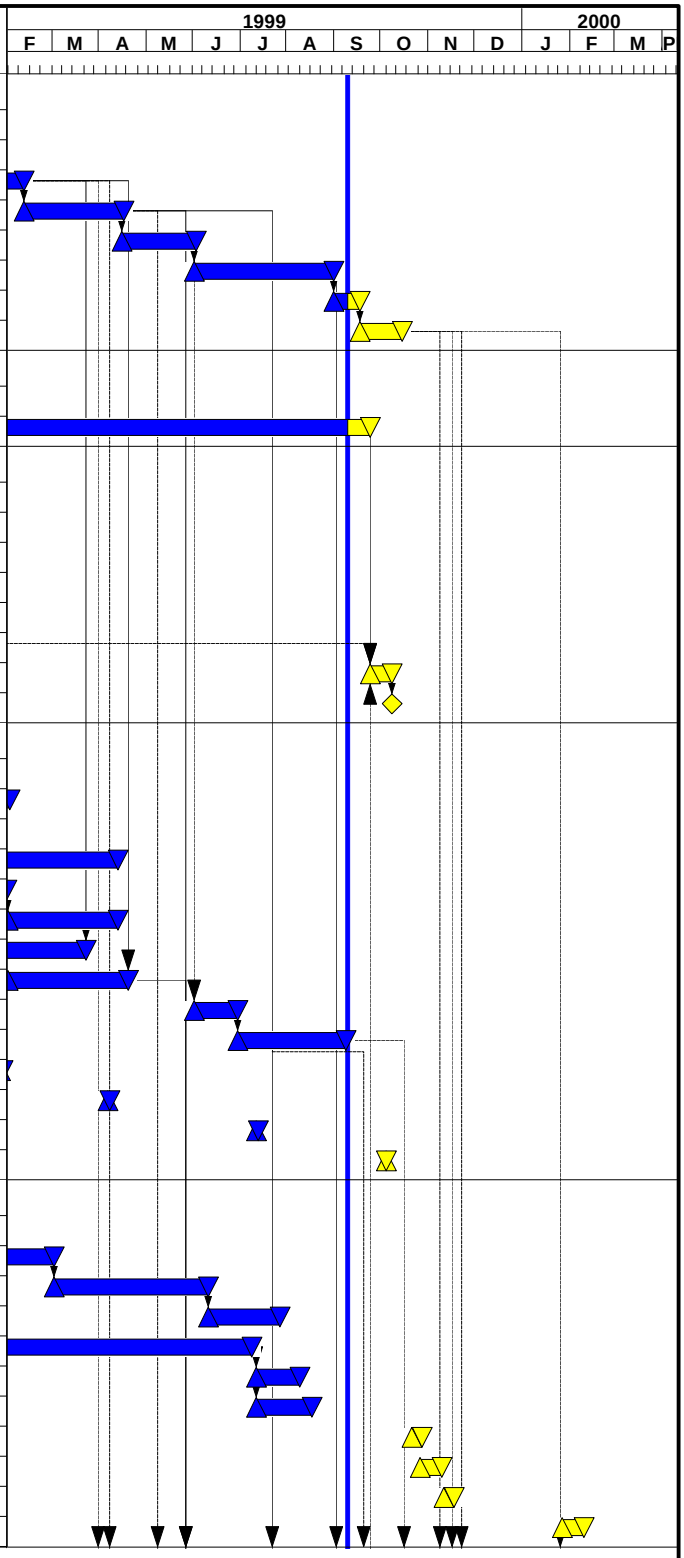
Activity Description	Early Start	Early Finish
1. Receive Funding		
Appropriation of money for NGB budget	26OCT98A	
NGB Contracting ($4M)	26OCT98A	18DEC98A
Procure Supplemental Funding ($1.4M)	21DEC98A	10FEB99A
Procure Supplemental Funding ($1.0M)	11FEB99A	16APR99A
Procure Supplemental Funding ($1.6M)	16APR99A	02JUN99A
Procure Supplemental Funding ($2.1M)	02JUN99A	31AUG99A
Procure Supplemental Funding ($2.9M)	01SEP99A	16SEP99
Procure Supplemental Funding	17SEP99	14OCT99
2. Evaluate Analytical Methods		
Complete Draft PEP Analytical Report	05NOV98A	30NOV98A
EPA Comments/Revisions	01DEC98A	23SEP99
3. Phase I Completion Workplan		
Prepare Phase I+ Workplan	13AUG98A	21AUG98A
Phase I+ Workplan due to EPA		21AUG98A
EPA Comments/Workplan Revisions	24AUG98A	06OCT98A
Submit Revised Workplan		06OCT98A
EPA Comments/Workplan Revisions	07OCT98A	29OCT98A
Submit Change Document		30OCT98A
Prepare Final Workplan	24SEP99	07OCT99
Submit Final Workplan		07OCT99
4. Phase I/II Installation of Wells		
Mobilization	21DEC98A	04JAN99A
USGS Modeling Well Screens	07JAN99A	01FEB99A
Prepare FSP for Far Field Wells	21DEC98A	12JAN99A
Review/Revise FSP for FF Wells	13JAN99A	12APR99A
Prepare FSP for Phase IIa Wells	21JAN99A	29JAN99A
Review/Revise FSP for Phase IIa Wells	01FEB99A	12APR99A
Install Group 1 FF Wells	06JAN99A	23MAR99A
Install Phase IIa Wells	01FEB99A	19APR99A
Mobilize for Group 2 FF Wells	02JUN99A	29JUN99A
Install Group 2 FF Wells	30JUN99A	08SEP99A
Synoptic water levels round 1	26JAN99A	26JAN99A
Synoptic water levels round 2	07APR99A	07APR99A
Synoptic water levels round 3	12JUL99A	12JUL99A
Synoptic water levels round 4	04OCT99*	04OCT99
5. Phase I Sampling of Water Supply Wells		
Procure lab for SDWA parameters	21DEC98A	06JAN99A
Prepare QA/QC plan addendum	07JAN99A	02MAR99A
EPA review/comment	03MAR99A	10JUN99A
Sample (6a) MMR Wells DW/PEP 2Q99	11JUN99A	27JUL99A
Setup split sampling for wells	08JAN99A	09JUL99A
Sample (6b) non-MMR wells PEP 3Q99	12JUL99A	09AUG99A
Sample (6c) MMR wells PEP 3Q99	12JUL99A	17AUG99A
Sample (6d) MMR wells DW/PEP 3Q99	21OCT99	27OCT99*
Sample (6b) non-MMR wells PEP 4Q99	27OCT99	09NOV99*
Sample (6c) MMR wells PEP 4Q99	11NOV99	17NOV99*
Sample (6b) non-MMR wells PEP 1Q00	27JAN00	09FEB00*



Project Start 14AUG98
Project Finish 17MAY01
Data Date 10SEP99
Run Date 10SEP99

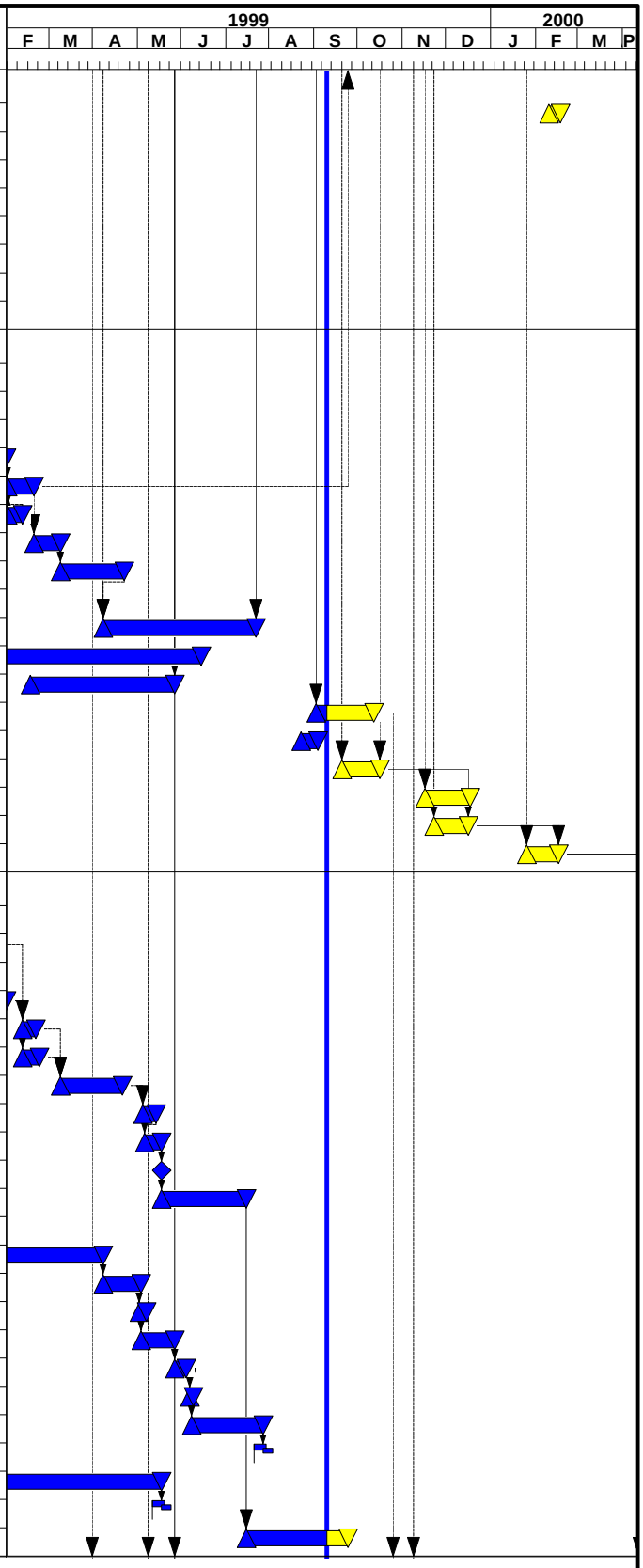
Early Bar
Progress Bar

MMR9

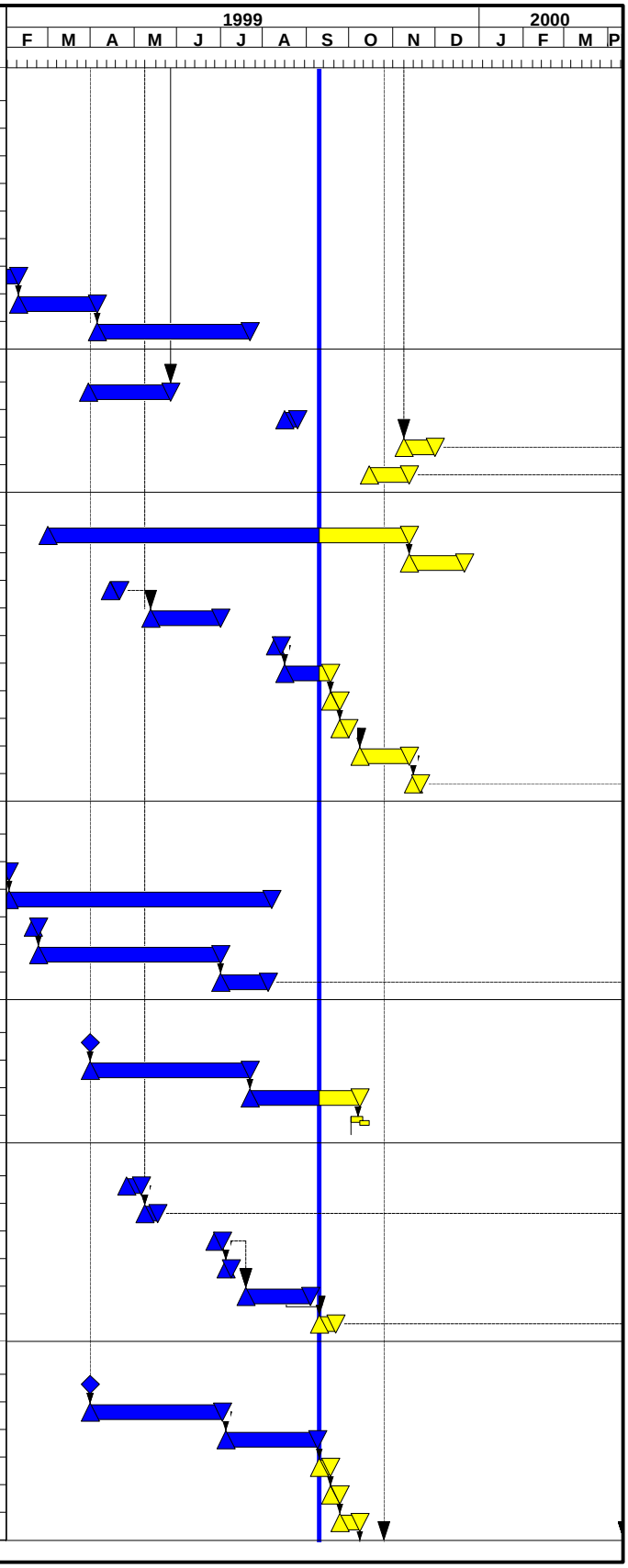
Sheet 1 of 4

Figure 1. Schedule for Completion of the Impact Area Groundwater Study as of 9/10/99

Activity Description	Early Start	Early Finish
5. Phase I Sampling of Water Supply Wells		
Sample (6c) MMR wells PEP 1Q00	10FEB00	17FEB00*
Sample (6b) non-MMR wells PEP 2Q00	19APR00	09MAY00*
Sample (6c) MMR wells PEP 2Q00	27APR00	17MAY00*
Sample (6d) MMR wells DW/PEP 3Q00	10JUL00*	18AUG00
Sample (6c) MMR wells PEP 3Q00	28JUL00	17AUG00*
Sample (6c) MMR wells PEP 4Q00	30OCT00	17NOV00*
Sample (6c) MMR wells PEP 1Q01	29JAN01	16FEB01*
Sample (6c) MMR wells PEP 2Q01	27APR01	17MAY01*
6. Phase I Sampling of Monitoring Wells		
Review Selection of IRP wells	05NOV98A	30NOV98A
Submit IRP well selection/rationale	30NOV98A	
EPA comments on IRP Wells	01DEC98A	19JAN99A
Change document for IRP Wells	20JAN99A	29JAN99A
EPA cond. approve IRP well changes	01FEB99A	18FEB99A
USGS model selected IRP wells	01FEB99A	11FEB99A
Changes to address MADEP comments	19FEB99A	09MAR99A
Prepare FSP for Supplemental IRP Wells	10MAR99A	22APR99A
Mobilization for Phase I Wells	21DEC98A	05JAN99A
Sample/Analyze Supplemental IRP Wells	08APR99A	22JUL99A
Sample/Analyze Phase I Wells Round 2	06JAN99A	14JUN99A
Sample/Analyze G1 FF Wells Round 1	17FEB99A	27MAY99A
Sample/Analyze Phase I Wells Round 3	02SEP99A	11OCT99
Sample/Analyze G1 FF Wells Round 2	23AUG99A	02SEP99A
Sample/Analyze G2 FF Wells Round 1	20SEP99	15OCT99*
Sample/Analyze G1 FF Wells Round 3	16NOV99	17DEC99*
Sample/Analyze G2 FF Wells Round 2	23NOV99	15DEC99
Sample/Analyze G2 FF Wells Round 3	25JAN00	15FEB00
7. Phase I Response Actions for Demo Area 1		
Roadbuilding for MW34	28DEC98A	04JAN99A
Install/Profile MW34	06JAN99A	18JAN99A
Roadbuilding for MW35	18JAN99A	18JAN99A
Install/Profile MW35	19JAN99A	29JAN99A
Develop/Sample/Analyze MW34	11FEB99A	19FEB99A
Develop/Sample/Analyze MW35	11FEB99A	22FEB99A
Install/Profile/Develop MW36	09MAR99A	20APR99A
Sample/Analyze MW36	05MAY99A	14MAY99A
Evaluate Groundwater Data	07MAY99A	17MAY99A
Submit GW Data/Response Plan to EPA		17MAY99A
Review/Revise Response Plan	18MAY99A	15JUL99A
UXO Clearance Demo 1	28DEC98A	13JAN99A
Standby for Demo 1 to dry up	14JAN99A	07APR99A
Mobilize ATV drill rig	08APR99A	03MAY99A
Demo 1 Soil Sampling to 15 ft	03MAY99A	07MAY99A
Soil Sample Analysis/Evaluation	04MAY99A	27MAY99A
Mobilize ATV drill rig	28MAY99A	04JUN99A
Demo 1 Soil Sampling to 40 ft	07JUN99A	09JUN99A
Soil Sample Analysis/Evaluation	08JUN99A	27JUL99A
Submit Soil Data to EPA		27JUL99A
Evaluate Pilot Testing & Remedies	21DEC98A	18MAY99A
Submit draft remedy evaluation to EPA		18MAY99A
EPA review/approve Response Plan	16JUL99A	23SEP99



Activity Description	Early Start	Early Finish
8. Phase II (a) Workplan		
Prepare Phase II(a) Workplan	24AUG98A	11SEP98A
Submit Phase II(a) Workplan to EPA		11SEP98A
EPA Review Phase II(a) Workplan	14SEP98A	28OCT98A
Meeting to discuss Phase II(a)	04NOV98A	04NOV98A
Revise Phase II(a) workplan	05NOV98A	12NOV98A
EPA review/comment	13NOV98A	22DEC98A
Prepare change document	28DEC98A	08FEB99A
EPA approve change document	09FEB99A	05APR99A
Final Phase II(a) Workplan	06APR99A	22JUL99A
9. Phase II Investigate Exceedances		
Sample/Analyze Ph. II(a) Wells Round 1	30MAR99A	26MAY99A
Sample/Analyze Ph. II(a) Wells Round 2	16AUG99A	24AUG99A
Sample/Analyze Ph. II(a) Wells Round 3	08NOV99*	30NOV99
Soil Sampling/Analysis for Source Areas	15OCT99	12NOV99*
10. Phase II Characterize J Ranges		
Data Collection for J Ranges	01MAR99A	11NOV99
Prepare J Range Workplan	12NOV99	20DEC99
Sampling/Analysis for J-3 Wetland	15APR99A	20APR99A
Review J-3 Wetland Results with EPA	13MAY99A	01JUL99A
Mobilization for Steel Pit	10AUG99A	13AUG99A
UXO Clearance for steel pit	16AUG99A	16SEP99
Soil sampling/analysis for Steel Pit	17SEP99	23SEP99
Monitoring well installation for Steel Pit	24SEP99	30SEP99
Sample/Analyze monitoring well	08OCT99	12NOV99
Review Steel Pit Results with EPA	15NOV99	19NOV99
11. Phase II Survey for Munitions Disposal		
Technology Meeting	09DEC98A	09DEC98A
Prepare Survey Work Plan	10DEC98A	01FEB99A
Review/Revise Workplan	02FEB99A	06AUG99A
Excavation/Sampling of Brick-lined Pits	19FEB99A	22FEB99A
Analysis of Brick-lined Pit Samples	23FEB99A	01JUL99A
Prepare Tech Memo for Brick-lined Pit	02JUL99A	04AUG99A
12. Phase II Characterize Training Areas		
Completion of Archives Search Report		31MAR99A
Phase II (a) Workplan for Training Areas	01APR99A	22JUL99A
EPA Review/Approve Workplan	23JUL99A	07OCT99
Begin Training Area Investigations		07OCT99
13. Phase II Characterize KD and U Ranges		
MIDAS search for analytes	27APR99A	06MAY99A
Soil Sampling/Analysis for KD and U	10MAY99A	17MAY99A
UXO Clearance for Monitoring Wells	28JUN99A	02JUL99A
Roadbuilding	06JUL99A	09JUL99A
Monitoring Well installations at KD and U	20JUL99A	02SEP99A
Sample/Analyze monitoring wells	10SEP99	21SEP99
14. Phase II Characterize Gun/Mortar Positions		
Completion of Archives Search Report		31MAR99A
Develop Field Sampling Plan	01APR99A	02JUL99A
Agencies Review FSP	06JUL99A	08SEP99A
Response to comments	10SEP99	16SEP99
Agencies review response	17SEP99	23SEP99
Prepare Final FSP	24SEP99	07OCT99



Activity Description	Early Start	Early Finish
14. Phase II Characterize Gun/Mortar Positions		
Soil Sampling/Analysis at Gun/Mortar	08OCT99	06DEC99
Mobilize drilling equipment	16AUG99A	27AUG99A
Install Monitoring Wells at Gun/Mortar	30AUG99A	19OCT99
Sample/Analyze monitoring wells	29SEP99	02NOV99
15. Phase II Characterize Trnch, Excvtn, Bnkr		
Completion of Archives Search Report		31MAR99A
Assessment of site features	16AUG99A	27AUG99A
Review data with EPA	19AUG99A	13SEP99
Phase II (a) Workplan for Trenches, etc.	14SEP99	05OCT99
EPA Review/Approve Workplan	06OCT99	19OCT99
Begin Trenches Investigations		19OCT99
16. Phase II Sampling Groundwater at SAR		
Install Monitoring Wells at SAR	09MAR99A	23APR99A
Sample/Analyze Monitoring Wells	27MAY99A	05AUG99A
17. Phase II Characterize Mortar Targets		
Reconnaissance of Targets	16AUG99A	27AUG99A
Discuss sampling plan with EPA	19AUG99A	13SEP99
Prepare draft FSP	14SEP99	04OCT99
EPA review/comment on FSP	05OCT99	18OCT99
Prepare final FSP	19OCT99	04NOV99
Begin Mortar Targets Investigations		04NOV99
18. Reports and Meetings		
Progress Reports	10SEP98A	12JUL00
Phase II Interim Results Report	01SEP99A	01NOV99
Draft Interim Longterm Monitoring Report	25OCT99*	30NOV99
Review Draft ILM Report	01DEC99	29DEC99
Final ILM Report	30DEC99	26JAN00
Draft Phase II Compl. Work Report	01FEB00	11APR00
Review Draft Phase II CWR	12APR00	09MAY00
Final Phase II CWR	10MAY00	07JUN00