MONTHLY PROGRESS REPORT #26
FOR MAY 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 May 3 to May 28, 1999. Scheduled actions are for the six-week period ending July 16, 1999.

1. SUMMARY OF ACTIONS TAKEN

Groundwater sampling was completed during the month, for round 1 of the new wells. Wells that were sampled during May are summarized in Table 1 (sample type = "groundwater"). Subsurface soil sampling in Demo 1 was started and completed to a depth of 15 feet (sample type = "soil boring"). Surface and subsurface soil sampling was completed in KD (Area 44) and U (Area 45) Ranges (sample type = "soil grid"). Split samples were received from AFCEE for residential wells that were sampled in the Arnold Road/Raccoon Lane/Old Snake Pond Road neighborhoods (sample type = "other").

The Guard, EPA, and MADEP met on May 6 to discuss technical issues, including:

- Laboratory data for MW-59 shallow groundwater and profile samples, including a discussion of the detection of TNT in the profile sample but not in the groundwater sample. Additional information to be collected to address this issue includes: the shallow well will be resampled for explosives; the remnants of the profile samples will be reanalyzed; the boring log will be examined for evidence of a different soil type at the top of the aquifer; and a shallow soil sample will be collected and the "local background sample" will be reviewed.
- The draft Response Plan for Demo 1, to locate upgradient and lateral extent of groundwater contamination.
- The Evaluation of Remedial Technologies for Demo 1. Revisions to address comments from the Guard are now underway. The Guard requested that the EPA consider how remedy selection and implementation would proceed, in terms of the regulatory vehicle, to help guide the determination of an appropriate funding mechanism.
- Plans for discussions of far field monitoring wells with the towns. Letters to the towns will be developed.
- Information for eight additional compounds identified by EPA as constituents of KD and U Range munitions. There was a discussion of the amounts of compounds in the munitions, any known toxicity information, and analytical methods.
- Copies of the preliminary draft Phase IIb Workplan were provided.
- Copies of the preliminary draft Phase IIa FSP for Gun and Mortar Positions were provided.
- The schedule for the next round of groundwater sampling in Arnold/Raccoon/Snake Pond area.
- A meeting scheduled for 5/18 to discuss the munitions survey plan. However, it may not be possible to perform site reconnaissance at some locations due to the presence of UXO. The army is mobilizing a team of UXO experts to inspect the 10 rounds currently identified in the Impact Area and Training Ranges, in conjunction with EPA's expert. MAARNG expects to issue a memorandum that will supplement existing procedures for managing UXO at MMR.
- Method 5035 for preservation of VOCs in soil samples.
- Potential overlap of requirements for sampling plans under Phase IIa and Phase IIb of the July 1998 SOW. The EPA indicated that where overlap appears to exist, it would be preferable to handle the requirements under Phase IIa.

- Agenda items for the next IART meeting will include: update of Raccoon Lane groundwater; update on off-base munitions; update on on-base munitions; discussion of format and timing of the IAGS reports; and update on IAGS findings and Demo 1 plan.

The Guard, EPA, and MADEP met on May 13 to discuss technical issues, including the following:

- A handout of unvalidated detections from 95-15a was provided. No pesticides or herbicides were detected.
- The profile samples for MW-59 were discussed. The lab stated that there was no sediment in the sample but there was a film on the inside of the sample container. The lab was checking to see if they could collect a wipe sample of this material. A sketch of the drill pad was provided showing the locations of the wells and of the local background surface soil sample. Ogden is reviewing the UXO reports for MW-26 and MW-59 and summarizing any munitions located in the area.
- There was a brief discussion of the Demo 1 Response Plan and Evaluation of Remedial Technologies. The revised plan view was shown and the revised section view is being developed from information provided by the USGS. The revised plan will be mailed to the IART as soon as it is available.
- Letters were submitted to Sandwich, Bourne and 102nd FW requesting meetings to discuss far field monitoring wells.
- VOC Method 5035 was discussed. The Guard provided a copy of MADEP policy #99-415 that describes acceptable techniques for preservation of VOCs. The policy requires the use of Method 5035 after 3/15/99. Ogden will review the policy and method, review the practices employed by AFCEE, and recommend changes to meet the policy and goals of preservation of low VOC samples.
- There was a discussion of the NG findings in J-3 wetland. It was noted that AFCEE is installing wells downgradient of the wetland. The latest finding confirms the earlier finding of NG, di-n-butyl phthalate and N-nitrosodiphenylamine, as indicative of propellants released in the wetland. The most likely source would appear to be disposal from nearby firing positions.
- There was a discussion of the 2,4-DANT detection at 27MW0017A. Ogden will ask the USGS to backtrack this well. Preliminary estimates backtrack from this well to the BA-1 area where TNT was used. The Guard is proposing additional groundwater investigations for BA-1 in the draft Phase IIb Workplan.
- There was a discussion of the schedule in the latest monthly report. Ogden noted the mid-August expected completion date for the Group 2 wells (Guard to write a formal request for extension).
- EPA indicated that next weeks meeting is expected to be Johanna Hunter's last meeting as facilitator due to other commitments.
- AFCEE has indicated that the next sampling in the Raccoon Lane area will be 5/25. Ogden indicated that scoping for this sampling event remains to be worked out with the Guard.
- EPA provided a letter containing comments on the preliminary draft Phase IIa FSP for Gun and Mortar Positions

The Guard, EPA, and MADEP met on May 20 to discuss technical issues, including the following:

- A letter from Ogden to the EPA was distributed with Ogden's draft response to EPA comments on the QA/QC Plan. Ogden expects to complete a change document for EPA approval and a revised plan when the changes have been approved.
- Ogden noted that no results were available yet for the repeat analysis of the MW-59 profile samples, nor on the repeat sampling of MW-59. The slight delay on the groundwater analysis is due to the priority rush placed on the Demo 1 shallow soil samples.
- A handout was distributed containing results for the 1999 UXO survey of the MW-59 drill pad and the 1997 UXO survey of MW-26 drill pad. It was noted that the 1997 UXO survey found a 155mm low-order detonation round that had HE visible inside the shell.

- Ogden reported that they had not found any details concerning the extent of groundwater contamination at OB/OD sites, in the review of the fate and transport information. Mr. Gonser will obtain a list of OB/OD sites for which such information might be obtained.
- Recent arrangements to discuss locations of far field monitoring wells with the towns were discussed. EPA will contact Sandwich Water District to determine their availability to discuss these wells. A meeting with Bourne is scheduled for 5/20. Information on the monitoring wells around the J Well has been obtained from 102nd FW and will be reviewed.
- Ogden summarized the results of its review of EPA Method 5035 for preservation of VOCs in soil samples. AFCEE appears to be complying with MADEP Policy #WSC99-415 through the use of EnCore™ samplers with lab preservation within 48 hours. Ogden would recommend a similar method be used for the IAGS if one is adopted. The regulatory agencies will review whether this change is appropriate.
- A handout was provided containing the cumulative IAGS explosive results for groundwater. The recent detections at MW-50M1 were discussed.
- Ogden discussed progress in arranging a demonstration of direct push technologies. Several companies have expressed interest. Ogden will try to schedule this for the week of June 14.
- A handout of detection maps and tables was provided that will be given out at the IART meeting (5/20). These maps and tables contain the latest available groundwater data, organized by analyte group.
- Ogden will check on the changes made to validation procedures based on the comments on the draft CWR and subsequent responses. Ogden will also check on the Bourne wells that are being sampled for explosives under the Phase I Workplan.
- The Guard indicated that due to funding for berm maintenance and other projects, the IAGS funding expected to be available within the next week was $1.6M. The Guard was still pursuing additional funding of $3M from the Army.

The Guard, EPA, and MADEP had a conference call on May 27 to discuss technical issues, including the following:

- A discussion of the explosive results for Demo Area 1 soil samples. RDX, HMX, nitroglycerin and several TNT breakdown products were confirmed in samples from five of the nine borings from depths of 3 to 16 feet. It was agreed to extend B-3, B-4, B-6, and B-9 to the water table for additional soil sampling in accordance with the Workplan for Completion of Phase I Activities.
- Comments on the draft Response Plan for Demo Area 1 were discussed. It was agreed that the additional soil sampling to define the surficial extent of contamination would be added to this plan. EPA recommended adding an additional water table well downgradient of MW-19 in conjunction with the deep soil sampling being done in this area. It was agreed to use the results of MW-73 through MW-77 to evaluate the need for additional wells south of MW-35. EPA asked Ogden to check on whether profile samples were collected for MW-31. EPA asked for PDA spectra for profile samples from MW-35 through MW-36.
- EPA is accepting comments from the IART on EPA's 2-page fact sheet and the proposed 10-page summary until Tuesday June 1, 1999. EPA and the Guard will coordinate on the preparation of the 10-page summary early next week.
- EPA has not been able to contact Sandwich Water District personnel concerning the far field monitoring wells due to vacation schedules. Ogden has received the Bourne supply well Zone IIs from Haley and Ward and is working with USGS to establish the vertical extent of the ZOCs and travel time from Route 28 to the pumping wells.
- There was a discussion of preliminary results from the repeat analysis of the first profile sample at MW-59 and the repeat sample of MW-59S. Both samples contained low levels of RDX similar to the first sample from MW-59S but no TNT. Ogden explained that the "film" described for the profile samples was actually a thin film of precipitate, but not enough to sample as a separate phase. There

was a discussion of the sampling protocol for the Phase II (a) borings which did not include soil samples. EPA asked that the Phase I soil sampling protocol be adopted for future borings in the Impact Area.

- A fax summarizing documents that are currently being review or prepared was discussed.

2. SUMMARY OF DATA RECEIVED

Preliminary (Non-Validated) Detections

Preliminary non-validated detections of explosives and Volatile Organic Compounds (VOCs) are summarized in Table 2 for samples collected during May and late April. The status of the detections with respect to confirmation using Photo Diode Array (PDA) spectra is indicated in Table 2. Where PDA status is "YES", the detected compound has been confirmed to be present in the sample. Where the PDA status is "NO", the identification of an explosive has been confirmed to be a false positive. A blank in the PDA column indicates that either the spectra have not been evaluated (for explosives), or that they are not applicable (for VOCs).

The results in Table 2 indicate detections of explosive compounds in groundwater samples from 27MW0017A (2,4-DANT), MW-38M3 (RDX), MW-38M4 (RDX), MW-43M2 (RDX), MW-50M1 (RDX, 4A-DNT), and MW-59S RDX, HMX). None of these detections were observed in Phase I, because either the wells are new (MW-series) or are newly added to the study (27MW0017A). The validated concentration measured for MW-38M3 is 2.5 ppb, exceeding the lifetime drinking water Health Advisories (HA) established by EPA. Concentrations of the other detections are not being released pending validation, but none exceed the lifetime drinking water HA.

The results in Table 2 indicate detection of 2,6-DNT in a profile sample from MW-44.

The results in Table 2 indicate detection of RDX, HMX, and several TNT breakdown products in subsurface soil samples from borings in Demo Area 1. Samples were collected from 3-16 feet below ground surface in accordance with the Workplan for Completion of Phase I Activities. Deeper samples will be collected from four of the nine borings, between 16 feet and the water table.

The results in Table 2 indicate detection of nitroglycerin (NG), RDX, HMX, and several TNT breakdown products in soil samples from the KD Range. No explosives were detected at the U Range, nor at the secondary target or suspected former target at the KD Range. RDX, HMX, TNT, TNT breakdown products, and NG were detected at the primary target for the KD Range. NG was detected at several firing positions for the KD Range.

Validated Data

Validated data were received during May for Sample Delivery Groups 93, 98-100, 102-106, 108, 111, and 118. These SDGs contain results for 49 monitoring wells, 60 groundwater profile samples, and 4 soil samples collected in January and early February 1999. The validated data are provided in an attachment to this report. Results include analyses for explosives, VOCs, Semivolatile Organic Compounds (SVOCs), pesticides, herbicides, and inorganic parameters. Following is a brief summary of the validated data.

Explosives were identified at seven monitoring wells and one profile boring in the validated data, with four exceedances of the lifetime drinking water HA of 2 ppb for RDX. The exceedances were measured at 58MW0002 (20 ppb) located in CS-19, 58MW0009E (17 ppb) located in CS-19, 90MW0022 (3.8 ppb) located downgradient from the J-3 Range, and MW-02M2 (6.8 ppb) located south of Five Corners. Other

explosive compounds that were detected include 2,4-DNT (0.25 ppb), 2A-DNT (0.50 ppb), 4A-DNT (0.59 ppb), HMX (0.30-11 ppb), TNT (1.1 ppb), and 2,6-DNT (1.3-3.2 ppb).

Metals were detected at all 49 monitoring wells included in the validated data, with exceedances of drinking water criteria for thallium, sodium, zinc, and molybdenum. The MCL of 2 ppb for thallium was exceeded at LRWS1-4 (5.2 ppb). The HA of 2000 ppb for zinc was exceeded at LRWS5-1 (3980 ppb), LRWS6-1 (2240 ppb), and LRWS7-1 (4160 ppb). The HA guidance of 20,000 ppb for sodium was exceeded at SDW261160 (28,200 ppb) and MW-02S (20,300 ppb). The long term child HA of 10 ppb for molybdenum was exceeded at MW-02D (26 ppb), MW-02S (34 ppb), MW-53D (17 ppb), and MW-53S (28 ppb).

VOCs were identified at 30 monitoring wells and six profile borings in the validated data, with no exceedances of drinking water criteria. Chloroform was detected in virtually all of the samples, at concentrations ranging from 0.40 to 5.0 ppb. Other VOCs detected in groundwater samples include trichloroethene (0.70 ppb) in M97-3, MTBE (0.55 ppb) in M97-5, carbon disulfide (3.0 ppb) and toluene (3.0 ppb) in MW-02D, toluene (11 ppb) in MW-02S, acetone (9.0 ppb) and benzene (2.0 ppb) and toluene (0.80 ppb) in MW-53D.

VOCs were also identified in three of the four soil samples, which were collected from the saturated zone in the borings for MW-51, -52, and –53. Detected compounds include 2-hexanone, acetone, benzene, carbon disulfide, chloromethane, ethylbenzene, methyl ethyl ketone, methylene chloride, toluene, and xylenes. No standards have been established for soil that would provide points of comparison for the detected concentrations.

SVOCs were identified at nine monitoring wells in the validated data, with three exceedances of the drinking water MCL of 6 ppb for bis (2-ethylhexyl) phthalate. The exceedances were measured at 90WT0013 (16 ppb), MW-02D (9.0 ppb), and MW-53D (18 ppb). Phenol (2.0 ppb in 15WT0712) was the only other SVOC detected.

SVOCs were also identified in one of the four soil samples. Detected compounds include 2,4-dimethylphenol, 2-methylphenol, 4-methylphenol, carbazole, and phenol. No standards have been established for soil that would provide points of comparison for the detected concentrations.

Pesticides or herbicides were detected at ten monitoring wells in the validated data, with no exceedances of drinking water criteria. Detected compounds include the herbicides 2,4 DB (0.97 ppb), MCPP (310-1300 ppb), chloramben (0.15-0.34 ppb), acifluorfen (0.14 ppb), picloram (0.42 ppb), and DCPA (0.21-0.24 ppb); and the pesticide gamma-chlordane (0.03 ppb).

3. DELIVERABLES SUBMITTED

Preliminary Draft Phase II (b) Workplan	May 4, 1999
Preliminary Draft Phase II (a) FSP for Gun and Mortar Positions	May 6, 1999
Weekly Progress Update (April 26-April 29)	May 6, 1999
Monthly Progress Report #25 (April 1999)	May 11, 1999
Weekly Progress Update (May 3 - May 7)	May 14, 1999
Draft Response Plan for Demo Area 1	May 17, 1999
Weekly Progress Report (May 10 – May 14)	May 18, 1999
Draft Phase II(b) Workplan	May 18, 1999
Draft Evaluation of Remedial Technologies for Demo Area 1	May 18, 1999
Weekly Progress Report (May 17 – May 21)	May 28, 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 June and early July include: EPA complete review of draft PEP Analytical Report, prepare final Phase I Workplan, mobilize for and begin installation of Group 2 wells, EPA complete review of drinking water analytes QA/QC, begin sampling water supply wells, complete analysis for round 2 of Phase I wells, continue analysis for far field monitoring wells (round 1) and supplemental IRP wells, complete Demo 1 groundwater response plan, begin Demo 1 groundwater response activities, complete Demo 1 deep soil sampling and analysis, complete Phase II (a) workplan, continue analysis for Phase II (a) wells (round 1), continue data collection for J Ranges, complete analysis for J-3 Wetland samples, complete Munitions Survey Workplan, complete draft workplan for Training Areas, complete soil analyses for KD/U Ranges, complete draft FSP for Gun/Mortar positions, complete scoping/mobilization for recon of trenches, excavations, etc., complete analysis of SAR monitoring wells, and complete scoping/mobilization for reconnaissance of mortar targets. The next meeting of the Impact Area Groundwater Study Review Team has been scheduled for June 14, 1999.

TABLE 1
SAMPLING PROGRESS
5/1-5/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
ABB005FAE	FIELDQC	5/6/1999	FIELDQC	0	0
ABB007AAE	FIELDQC	5/7/1999	FIELDQC	0	0
HC44E1AAT	FIELDQC	5/10/1999	FIELDQC	0	0
HC44F1CAE	FIELDQC	5/12/1999	FIELDQC	0	0
HC44G1AAT	FIELDQC	5/11/1999	FIELDQC	0	0
HC44L1AAE	FIELDQC	5/12/1999	FIELDQC	0	0
HC44L1AAT	FIELDQC	5/12/1999	FIELDQC	0	0
HC44S1AAE	FIELDQC	5/13/1999	FIELDQC	0	0
HC44S1AAT	FIELDQC	5/13/1999	FIELDQC	0	0
HC45D1CAE	FIELDQC	5/14/1999	FIELDQC	0	0
HC45D1CAE	FIELDQC	5/17/1999	FIELDQC	0	0
HC45D1CAT	FIELDQC	5/17/1999	FIELDQC	0	0
W17M1T	FIELDQC	5/18/1999	FIELDQC	0	0
W17M2T	FIELDQC	5/19/1999	FIELDQC	0	0
W38DDT	FIELDQC	5/12/1999	FIELDQC	0	0
W38M1T	FIELDQC	5/7/1999	FIELDQC	0	0
W38M2F	FIELDQC	5/7/1999	FIELDQC	0	0
W38M2T	FIELDQC	5/11/1999	FIELDQC	0	0
W38M3T	FIELDQC	5/6/1999	FIELDQC	0	0
W38M4T	FIELDQC	5/6/1999	FIELDQC	0	0
W38SST	FIELDQC	5/11/1999	FIELDQC	0	0
W39SST	FIELDQC	5/20/1999	FIELDQC	0	0
W39SST	FIELDQC	5/21/1999	FIELDQC	0	0
W42M1T	FIELDQC	5/24/1999	FIELDQC	0	0
W45M2T	FIELDQC	5/25/1999	FIELDQC	0	0
W45SST	FIELDQC	5/26/1999	FIELDQC	0	0
W51SST	FIELDQC	5/27/1999	FIELDQC	0	0
W53M1T	FIELDQC	5/3/1999	FIELDQC	0	0
W54DDT	FIELDQC	5/5/1999	FIELDQC	0	0
W54M2T	FIELDQC	5/4/1999	FIELDQC	0	0
W55M2T	FIELDQC	5/14/1999	FIELDQC	0	0
W55SST	FIELDQC	5/17/1999	FIELDQC	0	0
W17M1A	MW-17	5/18/1999	GROUNDWATER	97	107
W17M1L	MW-17	5/18/1999	GROUNDWATER	97	107
W17M2A	MW-17	5/19/1999	GROUNDWATER	67	77
W17M3A	MW-17	5/19/1999	GROUNDWATER	37	47
W17M3L	MW-17	5/19/1999	GROUNDWATER	37	47
W36M1A	MW-36	5/5/1999	GROUNDWATER	79	89
W36M2A	MW-36	5/5/1999	GROUNDWATER	59	69
W36SSA	MW-36	5/5/1999	GROUNDWATER	0	10
W36SSA	WL36S	5/10/1999	GROUNDWATER	0	10
W38DDA	MW-38	5/12/1999	GROUNDWATER	125	135
W38M1A	MW-38	5/7/1999	GROUNDWATER	100	110
W38M2A	MW-38	5/11/1999	GROUNDWATER	70	80
W38M3A	MW-38	5/6/1999	GROUNDWATER	53	63
W38M4A	MW-38	5/6/1999	GROUNDWATER	15	25
W38SSA	MW-38	5/10/1999	GROUNDWATER	0	10
W39M1A	MW-39	5/20/1999	GROUNDWATER	87	97
W39M2A	MW-39	5/20/1999	GROUNDWATER	42	52
W39SSA	MW-39	5/21/1999	GROUNDWATER	0	10
W39SSD	MW-39	5/21/1999	GROUNDWATER	0	10

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 for soil and profile, and feet below water table for groundwater
SED = Sample End Depth, measured in feet bgs for soil and profile, and feet below water table for groundwater

TABLE 1
SAMPLING PROGRESS
5/1-5/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
W42M1A	MW-42	5/24/1999	GROUNDWATER	139	149
W42M2A	MW-42	5/24/1999	GROUNDWATER	119	129
W42M3A	MW-42	5/25/1999	GROUNDWATER	99	109
W43M1A	MW-43	5/26/1999	GROUNDWATER	93	103
W43M2A	MW-43	5/26/1999	GROUNDWATER	70	80
W43SSA	MW-43	5/25/1999	GROUNDWATER	0	10
W45M1A	MW-45	5/24/1999	GROUNDWATER	98	108
W45M2A	MW-45	5/25/1999	GROUNDWATER	18	28
W45M2D	MW-45	5/25/1999	GROUNDWATER	18	28
W45SSA	MW-45	5/26/1999	GROUNDWATER	0	10
W51SSA	MW-51	5/27/1999	GROUNDWATER	0	10
W53M1A	MW-53	5/3/1999	GROUNDWATER	100	110
W53M1L	MW-53	5/3/1999	GROUNDWATER	100	110
W53M2A	MW-53	5/4/1999	GROUNDWATER	70	80
W53M3A	MW-53	5/4/1999	GROUNDWATER	40	50
W54DDA	MW-54	5/5/1999	GROUNDWATER	126	136
W54M2A	MW-54	5/4/1999	GROUNDWATER	58	68
W54M2L	MW-54	5/4/1999	GROUNDWATER	58	68
W54M3A	MW-54	5/4/1999	GROUNDWATER	28	38
W55DDA	MW-55	5/13/1999	GROUNDWATER	120	130
W55M1A	MW-55	5/13/1999	GROUNDWATER	90	100
W55M2A	MW-55	5/14/1999	GROUNDWATER	60	70
W55M3A	MW-55	5/14/1999	GROUNDWATER	29.5	39.5
W55SSA	MW-55	5/17/1999	GROUNDWATER	0	10
W59SSA	MW-59	5/10/1999	GROUNDWATER	0	10
W72SSA	MW-72	5/27/1999	GROUNDWATER	0	10
DW1707	GAC WATER	5/10/1999	IDW	0	0
DW3906	GAC WATER	5/6/1999	IDW	0	0
DW4017	GAC WATER	5/17/1999	IDW	0	0
DW4617	GAC WATER	5/17/1999	IDW	0	0
GAC008	GAC WATER	5/20/1999	IDW	0	0
GAC009	GAC WATER	5/20/1999	IDW	0	0
GAC010	GAC WATER	5/20/1999	IDW	0	0
SC7201	SOIL CUTTINGS	5/17/1999	IDW	0	0
SC7202	SOIL CUTTINGS	5/17/1999	IDW	0	0
RS0003ARND	3 Arnold Rd.	5/25/1999	OTHER	0	0
RS0003RACC	3 Raccoon Lane	5/25/1999	OTHER	0	0
RS0004OSNK	4 Old Snake Pon	5/25/1999	OTHER	0	0
RS0006OSNK	6 Old Snake Pon	5/25/1999	OTHER	0	0
RS0010ARND	10 Arnold Rd.	5/25/1999	OTHER	0	0
RS0011OSNK	11 Old Snake Po	5/25/1999	OTHER	0	0
RS0012OSNK	12 Old Snake Po	5/25/1999	OTHER	0	0
RS0014ARND	14 Arnold Rd.	5/25/1999	OTHER	0	0
RS0015ARND	15 Arnold Rd.	5/25/1999	OTHER	0	0
RS0018OSNK	18 Old Snake Po	5/25/1999	OTHER	0	0
RS0024ARND	24 Arnold Rd.	5/25/1999	OTHER	0	0
RS0033ARND	33 Arnold Rd.	5/25/1999	OTHER	0	0
RS0034ARND	34 Arnold Rd.	5/25/1999	OTHER	0	0
RS0036ARND	36 Arnold Rd.	5/25/1999	OTHER	0	0
RS0039ARND	39 Arnold Rd.	5/25/1999	OTHER	0	0
ABB001AAA	B-1	5/5/1999	SOIL BORING	3	4

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 for soil and profile, and feet below water table for groundwater
SED = Sample End Depth, measured in feet bgs for soil and profile, and feet below water table for groundwater

TABLE 1
SAMPLING PROGRESS
5/1-5/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
ABB001BAA	B-1	5/5/1999	SOIL BORING	4	5
ABB001CAA	B-1	5/5/1999	SOIL BORING	5	6
ABB001DAA	B-1	5/5/1999	SOIL BORING	6	7
ABB001EAA	B-1	5/5/1999	SOIL BORING	7	8
ABB001FAA	B-1	5/5/1999	SOIL BORING	8	9
ABB001GAA	B-1	5/5/1999	SOIL BORING	9	10
ABB001HAA	B-1	5/5/1999	SOIL BORING	10	11
ABB001IAA	B-1	5/5/1999	SOIL BORING	11	12
ABB001JAA	B-1	5/5/1999	SOIL BORING	12	13
ABB001KAA	B-1	5/5/1999	SOIL BORING	13	14
ABB001MAA	B-1	5/5/1999	SOIL BORING	15	16
ABB002AAA	B-2	5/5/1999	SOIL BORING	3	4
ABB002BAA	B-2	5/5/1999	SOIL BORING	4	5
ABB002CAA	B-2	5/5/1999	SOIL BORING	5	6
ABB002CAD	B-2	5/5/1999	SOIL BORING	5	6
ABB002DAA	B-2	5/5/1999	SOIL BORING	6	7
ABB002EAA	B-2	5/5/1999	SOIL BORING	7	8
ABB002FAA	B-2	5/5/1999	SOIL BORING	8	9
ABB002FAD	B-2	5/5/1999	SOIL BORING	8	9
ABB002GAA	B-2	5/5/1999	SOIL BORING	9	10
ABB002HAA	B-2	5/5/1999	SOIL BORING	10	11
ABB002IAA	B-2	5/5/1999	SOIL BORING	11	12
ABB002JAA	B-2	5/5/1999	SOIL BORING	12	13
ABB002KAA	B-2	5/5/1999	SOIL BORING	13	14
ABB002LAA	B-2	5/5/1999	SOIL BORING	14	15
ABB002MAA	B-2	5/5/1999	SOIL BORING	15	16
ABB003AAA	B-3	5/6/1999	SOIL BORING	3	4
ABB003BAA	B-3	5/6/1999	SOIL BORING	4	5
ABB003CAA	B-3	5/6/1999	SOIL BORING	5	6
ABB003DAA	B-3	5/6/1999	SOIL BORING	6	7
ABB003DAD	B-3	5/6/1999	SOIL BORING	6	7
ABB003EAA	B-3	5/6/1999	SOIL BORING	7	8
ABB003FAA	B-3	5/6/1999	SOIL BORING	8	9
ABB003GAA	B-3	5/6/1999	SOIL BORING	9	10
ABB003HAA	B-3	5/6/1999	SOIL BORING	10	11
ABB003IAA	B-3	5/6/1999	SOIL BORING	11	12
ABB003JAA	B-3	5/6/1999	SOIL BORING	12	13
ABB003KAA	B-3	5/6/1999	SOIL BORING	13	14
ABB003LAA	B-3	5/6/1999	SOIL BORING	14	15
ABB003MAA	B-3	5/6/1999	SOIL BORING	15	16
ABB004AAA	B-4	5/6/1999	SOIL BORING	3	4
ABB004BAA	B-4	5/6/1999	SOIL BORING	4	5
ABB004CAA	B-4	5/6/1999	SOIL BORING	5	6
ABB004DAA	B-4	5/6/1999	SOIL BORING	6	7
ABB004EAA	B-4	5/6/1999	SOIL BORING	7	8
ABB004FAA	B-4	5/6/1999	SOIL BORING	8	9
ABB004GAA	B-4	5/6/1999	SOIL BORING	9	10
ABB004HAA	B-4	5/6/1999	SOIL BORING	10	11
ABB004HAD	B-4	5/6/1999	SOIL BORING	10	11
ABB004KAA	B-4	5/6/1999	SOIL BORING	13	14
ABB004LAA	B-4	5/6/1999	SOIL BORING	14	15

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 for soil and profile, and feet below water table for groundwater

TABLE 1
SAMPLING PROGRESS
5/1-5/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
ABB004MAA	B-4	5/6/1999	SOIL BORING	15	16
ABB005AAA	B-5	5/6/1999	SOIL BORING	3	4
ABB005BAA	B-5	5/6/1999	SOIL BORING	4	5
ABB005BAD	B-5	5/6/1999	SOIL BORING	4	5
ABB005CAA	B-5	5/6/1999	SOIL BORING	5	6
ABB005DAA	B-5	5/6/1999	SOIL BORING	6	7
ABB005EAA	B-5	5/6/1999	SOIL BORING	7	8
ABB005FAA	B-5	5/6/1999	SOIL BORING	8	9
ABB005GAA	B-5	5/6/1999	SOIL BORING	9	10
ABB005HAA	B-5	5/6/1999	SOIL BORING	10	11
ABB005HAD	B-5	5/6/1999	SOIL BORING	10	11
ABB005IAA	B-5	5/6/1999	SOIL BORING	11	12
ABB005KAA	B-5	5/6/1999	SOIL BORING	13	14
ABB005LAA	B-5	5/6/1999	SOIL BORING	14	15
ABB005MAA	B-5	5/6/1999	SOIL BORING	15	16
ABB006AAA	B-6	5/5/1999	SOIL BORING	3	4
ABB006BAA	B-6	5/5/1999	SOIL BORING	4	5
ABB006BAD	B-6	5/5/1999	SOIL BORING	4	5
ABB006CAA	B-6	5/5/1999	SOIL BORING	5	6
ABB006DAA	B-6	5/5/1999	SOIL BORING	6	7
ABB006EAA	B-6	5/5/1999	SOIL BORING	7	8
ABB006FAA	B-6	5/5/1999	SOIL BORING	8	9
ABB006GAA	B-6	5/5/1999	SOIL BORING	9	10
ABB006HAA	B-6	5/5/1999	SOIL BORING	10	11
ABB006HAD	B-6	5/5/1999	SOIL BORING	10	11
ABB006IAA	B-6	5/5/1999	SOIL BORING	11	12
ABB006JAA	B-6	5/5/1999	SOIL BORING	12	13
ABB006KAA	B-6	5/5/1999	SOIL BORING	13	14
ABB006LAA	B-6	5/5/1999	SOIL BORING	14	15
ABB006MAA	B-6	5/5/1999	SOIL BORING	15	16
ABB007AAA	B-7	5/7/1999	SOIL BORING	3	4
ABB007BAA	B-7	5/7/1999	SOIL BORING	4	5
ABB007CAA	B-7	5/7/1999	SOIL BORING	5	6
ABB007DAA	B-7	5/7/1999	SOIL BORING	6	7
ABB007EAA	B-7	5/7/1999	SOIL BORING	7	8
ABB007FAA	B-7	5/7/1999	SOIL BORING	8	9
ABB007GAA	B-7	5/7/1999	SOIL BORING	9	10
ABB007HAA	B-7	5/7/1999	SOIL BORING	10	11
ABB007HAD	B-7	5/7/1999	SOIL BORING	10	11
ABB007IAA	B-7	5/7/1999	SOIL BORING	11	12
ABB007JAA	B-7	5/7/1999	SOIL BORING	12	13
ABB007KAA	B-7	5/7/1999	SOIL BORING	13	14
ABB007LAA	B-7	5/7/1999	SOIL BORING	14	15
ABB007MAA	B-7	5/7/1999	SOIL BORING	15	16
ABB008AAA	B-8	5/7/1999	SOIL BORING	3	4
ABB008BAA	B-8	5/7/1999	SOIL BORING	4	5
ABB008CAA	B-8	5/7/1999	SOIL BORING	5	6
ABB008DAA	B-8	5/7/1999	SOIL BORING	6	7
ABB008EAA	B-8	5/7/1999	SOIL BORING	7	8
ABB008FAA	B-8	5/7/1999	SOIL BORING	8	9
ABB008GAA	B-8	5/7/1999	SOIL BORING	9	10

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
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SED = Sample End Depth, measured in feet bgs for soil and profile, and feet below water table for groundwater

TABLE 1
SAMPLING PROGRESS
5/1-5/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
ABB008HAA	B-8	5/7/1999	SOIL BORING	10	11
ABB008HAD	B-8	5/7/1999	SOIL BORING	10	11
ABB008JAA	B-8	5/7/1999	SOIL BORING	13	14
ABB008LAA	B-8	5/7/1999	SOIL BORING	14	15
ABB008MAA	B-8	5/7/1999	SOIL BORING	15	16
ABB009CAA	B-9	5/6/1999	SOIL BORING	5	6
ABB009DAA	B-9	5/6/1999	SOIL BORING	6	7
ABB009EAA	B-9	5/6/1999	SOIL BORING	7	8
ABB009FAA	B-9	5/6/1999	SOIL BORING	8	9
ABB009FAD	B-9	5/6/1999	SOIL BORING	8	9
ABB009GAA	B-9	5/6/1999	SOIL BORING	9	10
ABB009HAA	B-9	5/6/1999	SOIL BORING	10	11
ABB009IAA	B-9	5/6/1999	SOIL BORING	11	12
ABB009JAA	B-9	5/6/1999	SOIL BORING	12	13
ABB009KAA	B-9	5/6/1999	SOIL BORING	13	14
ABB009LAA	B-9	5/6/1999	SOIL BORING	14	15
ABB009MAA	B-9	5/6/1999	SOIL BORING	15	16
HC44A1AAA	44A	5/10/1999	SOIL GRID	0	.25
HC44A1BAA	44A	5/10/1999	SOIL GRID	.25	.5
HC44A1CAA	44A	5/10/1999	SOIL GRID	.5	1
HC44B1AAA	44B	5/10/1999	SOIL GRID	0	0.25
HC44B1BAA	44B	5/10/1999	SOIL GRID	0.25	0.5
HC44B1CAA	44B	5/10/1999	SOIL GRID	0.5	1
HC44C1AAA	44C	5/10/1999	SOIL GRID	0	0.25
HC44C1BAA	44C	5/10/1999	SOIL GRID	0.25	0.5
HC44C1CAA	44C	5/10/1999	SOIL GRID	0.5	1
HC44D1AAA	44D	5/10/1999	SOIL GRID	0	.25
HC44D1BAA	44D	5/10/1999	SOIL GRID	.25	.5
HC44D1CAA	44D	5/10/1999	SOIL GRID	.5	1
HC44E1AAA	44E	5/10/1999	SOIL GRID	0	0.25
HC44E1AAD	44E	5/10/1999	SOIL GRID	0	0.25
HC44E1BAA	44E	5/10/1999	SOIL GRID	0.25	0.5
HC44E1CAA	44E	5/10/1999	SOIL GRID	0.5	1
HC44F1AAA	44F	5/11/1999	SOIL GRID	0	.25
HC44F1BAA	44F	5/11/1999	SOIL GRID	.25	.5
HC44F1CAA	44F	5/11/1999	SOIL GRID	.5	1
HC44G1AAA	44G	5/11/1999	SOIL GRID	0	.25
HC44G1BAA	44G	5/11/1999	SOIL GRID	.25	.5
HC44G1CAA	44G	5/11/1999	SOIL GRID	.5	1
HC44H1AAA	44H	5/11/1999	SOIL GRID	0	.25
HC44H1BAA	44H	5/11/1999	SOIL GRID	.25	.5
HC44H1CAA	44H	5/11/1999	SOIL GRID	.5	1
HC44I1AAA	44I	5/11/1999	SOIL GRID	0	.25
HC44I1BAA	44I	5/11/1999	SOIL GRID	.25	.5
HC44I1CAA	44I	5/11/1999	SOIL GRID	.5	1
HC44J1AAA	44J	5/12/1999	SOIL GRID	0	.25
HC44J1BAA	44J	5/12/1999	SOIL GRID	.25	.5
HC44J1CAA	44J	5/12/1999	SOIL GRID	.5	1
HC44J1CAD	44J	5/12/1999	SOIL GRID	.5	1
HC44K1AAA	44K	5/12/1999	SOIL GRID	0	.25
HC44K1BAA	44K	5/12/1999	SOIL GRID	.25	.5

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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TABLE 1
SAMPLING PROGRESS
5/1-5/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
HC44K1CAA	44K	5/12/1999	SOIL GRID	.5	1
HC44L1AAA	44L	5/12/1999	SOIL GRID	.25	.5
HC44L1AAA	44L	5/12/1999	SOIL GRID	0	.25
HC44L1AAD	44L	5/12/1999	SOIL GRID	0	.25
HC44L1CAA	44L	5/12/1999	SOIL GRID	.5	1
HC44M1AAA	44M	5/12/1999	SOIL GRID	0	.25
HC44M1BAA	44M	5/12/1999	SOIL GRID	.25	.5
HC44M1CAA	44M	5/12/1999	SOIL GRID	.5	1
HC44N1AAA	44N	5/12/1999	SOIL GRID	0	.25
HC44N1BAA	44N	5/12/1999	SOIL GRID	.25	.5
HC44N1CAA	44N	5/12/1999	SOIL GRID	.5	1
HC44O1AAA	44O	5/13/1999	SOIL GRID	0	.25
HC44O1BAA	44O	5/13/1999	SOIL GRID	.25	.5
HC44O1CAA	44O	5/13/1999	SOIL GRID	.5	1
HC44O1CAD	44O	5/13/1999	SOIL GRID	.5	1
HC44P1AAA	44P	5/13/1999	SOIL GRID	0	.25
HC44P1BAA	44P	5/13/1999	SOIL GRID	.25	.5
HC44P1CAA	44P	5/13/1999	SOIL GRID	.5	1
HC44Q1AAA	44Q	5/13/1999	SOIL GRID	0	.25
HC44Q1BAA	44Q	5/13/1999	SOIL GRID	.25	.5
HC44Q1CAA	44Q	5/13/1999	SOIL GRID	.5	1
HC44R1AAA	44R	5/13/1999	SOIL GRID	0	.25
HC44R1BAA	44R	5/13/1999	SOIL GRID	.25	.5
HC44R1CAA	44R	5/13/1999	SOIL GRID	.5	1
HC44S1AAA	44S	5/13/1999	SOIL GRID	0	.25
HC44S1AAD	44S	5/13/1999	SOIL GRID	0	.25
HC44S1BAA	44S	5/13/1999	SOIL GRID	.25	.5
HC44S1CAA	44S	5/13/1999	SOIL GRID	.5	1
HC44T1AAA	44T	5/11/1999	SOIL GRID	0	.25
HC44T1BAA	44T	5/11/1999	SOIL GRID	.25	.5
HC44T1CAA	44T	5/11/1999	SOIL GRID	.5	1
HC44U1AAA	44U	5/11/1999	SOIL GRID	0	.25
HC44U1BAA	44U	5/11/1999	SOIL GRID	.25	.5
HC44U1BAD	44U	5/11/1999	SOIL GRID	.25	.5
HC44U1CAA	44U	5/11/1999	SOIL GRID	.5	1
HC45A1AAA	45A	5/14/1999	SOIL GRID	0	.25
HC45A1BAA	45A	5/14/1999	SOIL GRID	.25	.5
HC45A1CAA	45A	5/14/1999	SOIL GRID	.5	1
HC45B1AAA	45B	5/14/1999	SOIL GRID	0	.25
HC45B1BAA	45B	5/14/1999	SOIL GRID	.25	.5
HC45B1CAA	45B	5/14/1999	SOIL GRID	.5	1
HC45C1AAA	45C	5/14/1999	SOIL GRID	0	.25
HC45C1BAA	45C	5/14/1999	SOIL GRID	.25	.5
HC45C1CAA	45C	5/14/1999	SOIL GRID	.5	1
HC45D1AAA	45D	5/17/1999	SOIL GRID	0	.25
HC45D1BAA	45D	5/17/1999	SOIL GRID	.25	.5
HC45D1CAA	45D	5/17/1999	SOIL GRID	.5	1
HC45E1AAA	45E	5/17/1999	SOIL GRID	0	.25
HC45E1AAD	45E	5/17/1999	SOIL GRID	0	.25
HC45E1BAA	45E	5/17/1999	SOIL GRID	.25	.5
HC45E1CAA	45E	5/17/1999	SOIL GRID	.5	1

Profiling methods include: Volatiles and Explosives
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TABLE 1
SAMPLING PROGRESS
5/1-5/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
HD44B3AAA	44B	5/10/1999	SOIL GRID	0	0.25
HD44B3BAA	44B	5/10/1999	SOIL GRID	0.25	0.5
HD44B3CAA	44B	5/10/1999	SOIL GRID	0.5	1
HD44C3AAA	44C	5/10/1999	SOIL GRID	0	0.25
HD44C3BAA	44C	5/10/1999	SOIL GRID	0.25	0.5
HD44C3CAA	44C	5/10/1999	SOIL GRID	0.5	1
HD44D3AAA	44D	5/10/1999	SOIL GRID	0	.25
HD44D3BAA	44D	5/10/1999	SOIL GRID	.25	.5
HD44D3CAA	44D	5/10/1999	SOIL GRID	.5	1
HD44E3AAA	44E	5/10/1999	SOIL GRID	0	0.25
HD44E3AAD	44E	5/10/1999	SOIL GRID	0	0.25
HD44E3BAA	44E	5/10/1999	SOIL GRID	0.25	0.5
HD44E3CAA	44E	5/10/1999	SOIL GRID	0.5	1
HD44F3AAA	44F	5/11/1999	SOIL GRID	0	.25
HD44F3BAA	44F	5/11/1999	SOIL GRID	.25	.5
HD44F3CAA	44F	5/11/1999	SOIL GRID	.5	1
HD44G3AAA	44G	5/11/1999	SOIL GRID	0	.25
HD44G3BAA	44G	5/11/1999	SOIL GRID	.25	.5
HD44G3CAA	44G	5/11/1999	SOIL GRID	.5	1
HD44H3AAA	44H	5/11/1999	SOIL GRID	0	.25
HD44H3BAA	44H	5/11/1999	SOIL GRID	.25	.5
HD44H3CAA	44H	5/11/1999	SOIL GRID	.5	1
HD44I3AAA	44I	5/11/1999	SOIL GRID	0	.25
HD44I3BAA	44I	5/11/1999	SOIL GRID	.25	.5
HD44I3CAA	44I	5/11/1999	SOIL GRID	.5	1
HD44J3AAA	44J	5/12/1999	SOIL GRID	0	.25
HD44J3BAA	44J	5/12/1999	SOIL GRID	.25	.5
HD44J3CAA	44J	5/12/1999	SOIL GRID	.5	1
HD44J3CAD	44J	5/12/1999	SOIL GRID	.5	1
HD44K1AAA	44K	5/12/1999	SOIL GRID	0	.25
HD44K1BAA	44K	5/12/1999	SOIL GRID	.25	.5
HD44K1CAA	44K	5/12/1999	SOIL GRID	.5	1
HD44K2AAA	44K	5/12/1999	SOIL GRID	0	.25
HD44K2BAA	44K	5/12/1999	SOIL GRID	.25	.5
HD44K2CAA	44K	5/12/1999	SOIL GRID	.5	1
HD44K3AAA	44K	5/12/1999	SOIL GRID	0	.25
HD44K3BAA	44K	5/12/1999	SOIL GRID	.25	.5
HD44K3CAA	44K	5/12/1999	SOIL GRID	.5	1
HD44K4AAA	44K	5/12/1999	SOIL GRID	0	.25
HD44K4BAA	44K	5/12/1999	SOIL GRID	.25	.5
HD44K4CAA	44K	5/12/1999	SOIL GRID	.5	1
HD44K5AAA	44K	5/12/1999	SOIL GRID	0	.25
HD44K5BAA	44K	5/12/1999	SOIL GRID	.25	.5
HD44K5CAA	44K	5/12/1999	SOIL GRID	.5	1
HD44L1AAA	44L	5/12/1999	SOIL GRID	0	.25
HD44L1AAD	44L	5/12/1999	SOIL GRID	0	.25
HD44L1BAA	44L	5/12/1999	SOIL GRID	.25	.5
HD44L1CAA	44L	5/12/1999	SOIL GRID	.5	1
HD44L2AAA	44L	5/12/1999	SOIL GRID	0	.25
HD44L2AAD	44L	5/12/1999	SOIL GRID	0	.25
HD44L2BAA	44L	5/12/1999	SOIL GRID	.25	.5

Profiling methods include: Volatiles and Explosives
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TABLE 1
SAMPLING PROGRESS
5/1-5/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
HD44L2CAA	44L	5/12/1999	SOIL GRID	.5	1
HD44L3AAA	44L	5/12/1999	SOIL GRID	0	.25
HD44L3AAD	44L	5/12/1999	SOIL GRID	0	.25
HD44L3BAA	44L	5/12/1999	SOIL GRID	.25	.5
HD44L3CAA	44L	5/12/1999	SOIL GRID	.5	1
HD44L4AAA	44L	5/12/1999	SOIL GRID	0	.25
HD44L4AAD	44L	5/12/1999	SOIL GRID	0	.25
HD44L4BAA	44L	5/12/1999	SOIL GRID	.25	.5
HD44L4CAA	44L	5/12/1999	SOIL GRID	.5	1
HD44L5AAA	44L	5/12/1999	SOIL GRID	0	.25
HD44L5AAD	44L	5/12/1999	SOIL GRID	0	.25
HD44L5BAA	44L	5/12/1999	SOIL GRID	.25	.5
HD44L5CAA	44L	5/12/1999	SOIL GRID	.5	1
HD44M2AAA	44M	5/12/1999	SOIL GRID	0	.25
HD44M2BAA	44M	5/12/1999	SOIL GRID	.25	.5
HD44M2CAA	44M	5/12/1999	SOIL GRID	.5	1
HD44M5AAA	44M	5/12/1999	SOIL GRID	0	.25
HD44M5BAA	44M	5/12/1999	SOIL GRID	.25	.5
HD44M5CAA	44M	5/12/1999	SOIL GRID	.5	1
HD44N1AAA	44N	5/12/1999	SOIL GRID	0	.25
HD44N1BAA	44N	5/12/1999	SOIL GRID	.25	.5
HD44N1CAA	44N	5/12/1999	SOIL GRID	.5	1
HD44N4AAA	44N	5/12/1999	SOIL GRID	0	.25
HD44N4BAA	44N	5/12/1999	SOIL GRID	.25	.5
HD44N4CAA	44N	5/12/1999	SOIL GRID	.5	1
HD44O4AAA	44O	5/13/1999	SOIL GRID	0	.25
HD44O4BAA	44O	5/13/1999	SOIL GRID	.25	.5
HD44O4CAA	44O	5/13/1999	SOIL GRID	.5	1
HD44O4CAD	44O	5/13/1999	SOIL GRID	.5	1
HD44O5AAA	44O	5/13/1999	SOIL GRID	0	.25
HD44O5BAA	44O	5/13/1999	SOIL GRID	.25	.5
HD44O5CAA	44O	5/13/1999	SOIL GRID	.5	1
HD44O5CAD	44O	5/13/1999	SOIL GRID	.5	1
HD44P1AAA	44P	5/13/1999	SOIL GRID	0	.25
HD44P1BAA	44P	5/13/1999	SOIL GRID	.25	.5
HD44P1CAA	44P	5/13/1999	SOIL GRID	.5	1
HD44P2AAA	44P	5/13/1999	SOIL GRID	0	.25
HD44P2BAA	44P	5/13/1999	SOIL GRID	.25	.5
HD44P2CAA	44P	5/13/1999	SOIL GRID	.5	1
HD44P3AAA	44P	5/13/1999	SOIL GRID	0	.25
HD44P3BAA	44P	5/13/1999	SOIL GRID	.25	.5
HD44P3CAA	44P	5/13/1999	SOIL GRID	.5	1
HD44P4AAA	44P	5/13/1999	SOIL GRID	0	.25
HD44P4BAA	44P	5/13/1999	SOIL GRID	.25	.5
HD44P4CAA	44P	5/13/1999	SOIL GRID	.5	1
HD44P5AAA	44P	5/13/1999	SOIL GRID	0	.25
HD44P5BAA	44P	5/13/1999	SOIL GRID	.25	.5
HD44P5CAA	44P	5/13/1999	SOIL GRID	.5	1
HD44Q2AAA	44Q	5/13/1999	SOIL GRID	0	.25
HD44Q2BAA	44Q	5/13/1999	SOIL GRID	.25	.5
HD44Q2CAA	44Q	5/13/1999	SOIL GRID	.5	1

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 for soil and profile, and feet below water table for groundwater
SED = Sample End Depth, measured in feet bgs for soil and profile, and feet below water table for groundwater

TABLE 1
SAMPLING PROGRESS
5/1-5/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
HD44Q5AAA	44Q	5/13/1999	SOIL GRID	0	.25
HD44Q5BAA	44Q	5/13/1999	SOIL GRID	.25	.5
HD44Q5CAA	44Q	5/13/1999	SOIL GRID	.5	1
HD44R1AAA	44R	5/13/1999	SOIL GRID	0	.25
HD44R1BAA	44R	5/13/1999	SOIL GRID	.25	.5
HD44R1CAA	44R	5/13/1999	SOIL GRID	.5	1
HD44R4AAA	44R	5/13/1999	SOIL GRID	0	.25
HD44R4BAA	44R	5/13/1999	SOIL GRID	.25	.5
HD44R4CAA	44R	5/13/1999	SOIL GRID	.5	1
HD44S4AAA	44S	5/13/1999	SOIL GRID	0	.25
HD44S4AAD	44S	5/13/1999	SOIL GRID	0	.25
HD44S4BAA	44S	5/13/1999	SOIL GRID	.25	.5
HD44S4BAD	44S	5/13/1999	SOIL GRID	.25	.5
HD44S4CAA	44S	5/13/1999	SOIL GRID	.5	1
HD44S5AAA	44S	5/13/1999	SOIL GRID	0	.25
HD44S5AAD	44S	5/13/1999	SOIL GRID	0	.25
HD44S5BAA	44S	5/13/1999	SOIL GRID	.25	.5
HD44S5CAA	44S	5/13/1999	SOIL GRID	.5	1
HD44T3AAA	44T	5/11/1999	SOIL GRID	0	.25
HD44T3BAA	44T	5/11/1999	SOIL GRID	.25	.5
HD44T3CAA	44T	5/11/1999	SOIL GRID	.5	1
HD44U3AAA	44U	5/11/1999	SOIL GRID	0	.25
HD44U3BAA	44U	5/11/1999	SOIL GRID	.25	.5
HD44U3BAD	44U	5/11/1999	SOIL GRID	.25	.5
HD44U3CAA	44U	5/11/1999	SOIL GRID	.5	1
HD45A3AAA	45A	5/14/1999	SOIL GRID	0	.25
HD45A3BAA	45A	5/14/1999	SOIL GRID	.25	.5
HD45A3CAA	45A	5/14/1999	SOIL GRID	.5	1
HD45B3AAA	45B	5/14/1999	SOIL GRID	0	.25
HD45B3AAD	45B	5/14/1999	SOIL GRID	0	.25
HD45B3BAA	45B	5/14/1999	SOIL GRID	.25	.5
HD45B3BAD	45B	5/14/1999	SOIL GRID	.25	.5
HD45B3CAA	45B	5/14/1999	SOIL GRID	.5	1
HD45B3CAD	45B	5/14/1999	SOIL GRID	.5	1
HD45C1AAA	45C	5/14/1999	SOIL GRID	0	.25
HD45C1BAA	45C	5/14/1999	SOIL GRID	.25	.5
HD45C1CAA	45C	5/14/1999	SOIL GRID	.5	1
HD45C2AAA	45C	5/14/1999	SOIL GRID	0	.25
HD45C2BAA	45C	5/14/1999	SOIL GRID	.25-.5	.25-.5
HD45C2CAA	45C	5/14/1999	SOIL GRID	.5	1
HD45C3AAA	45C	5/14/1999	SOIL GRID	0	.25
HD45C3BAA	45C	5/14/1999	SOIL GRID	.25-.5	.25-.5
HD45C3CAA	45C	5/14/1999	SOIL GRID	.5	1
HD45C4AAA	45C	5/14/1999	SOIL GRID	0	.25
HD45C4BAA	45C	5/14/1999	SOIL GRID	.25-.5	.25-.5
HD45C4CAA	45C	5/14/1999	SOIL GRID	.5	1
HD45C5AAA	45C	5/14/1999	SOIL GRID	0	.25
HD45C5BAA	45C	5/14/1999	SOIL GRID	.25-.5	.25-.5
HD45C5CAA	45C	5/14/1999	SOIL GRID	.5	1
HD45D1AAA	45D	5/17/1999	SOIL GRID	0	.25
HD45D1AAD	45D	5/17/1999	SOIL GRID	0	.25

Profiling methods include: Volatiles and Explosives
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Other Sample Types methods are variable
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TABLE 1
SAMPLING PROGRESS
5/1-5/31

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED
HD45D1BAA	45D	5/17/1999	SOIL GRID	.25	.5
HD45D1CAA	45D	5/17/1999	SOIL GRID	.5	1
HD45D2AAA	45D	5/17/1999	SOIL GRID	0	.25
HD45D2AAD	45D	5/17/1999	SOIL GRID	0	.25
HD45D2BAA	45D	5/17/1999	SOIL GRID	.25	.5
HD45D2CAA	45D	5/17/1999	SOIL GRID	.5	1
HD45D3AAA	45D	5/17/1999	SOIL GRID	0	.25
HD45D3AAD	45D	5/17/1999	SOIL GRID	0	.25
HD45D3BAA	45D	5/17/1999	SOIL GRID	.25	.5
HD45D3CAA	45D	5/17/1999	SOIL GRID	.5	1
HD45D4AAA	45D	5/17/1999	SOIL GRID	0	.25
HD45D4BAA	45D	5/17/1999	SOIL GRID	.25	.5
HD45D4CAA	45D	5/17/1999	SOIL GRID	.5	1
HD45D5AAA	45D	5/17/1999	SOIL GRID	0	.25
HD45D5BAA	45D	5/17/1999	SOIL GRID	.25	.5
HD45D5CAA	45D	5/17/1999	SOIL GRID	.5	1

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
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SBD = Sample Begin Depth, measured in feet bgs for soil and profile, and feet below water table for groundwater
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TABLE 2
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/12/99-5/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
03MW0022A	03MW0022A	4/16/1999	GROUNDWATER	71	76	8330N	1,3,5-TRINITROBENZENE	NO
15MW0009	15MW0009	4/13/1999	GROUNDWATER	0	0	8330N	1,3,5-TRINITROBENZENE	NO
27MW0017A	27MW0017A	4/19/1999	GROUNDWATER	65	70	8330N	1,3,5-TRINITROBENZENE	NO
27MW0017A	27MW0017A	4/19/1999	GROUNDWATER	65	70	8330N	1,3-DINITROBENZENE	NO
27MW0017A	27MW0017A	4/19/1999	GROUNDWATER	65	70	8330N	2,4-DIAMINO-6-NITROTOLUENE	YES
27MW0017A	27MW0017A	4/19/1999	GROUNDWATER	65	70	8330N	3-NITROTOLUENE	NO
27MW0017A	27MW0017A	4/19/1999	GROUNDWATER	65	70	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	NO
27MW0017A	27MW0017A	4/19/1999	GROUNDWATER	65	70	8330N	NITROGLYCERIN	NO
27MW0017A	27MW0017A	4/19/1999	GROUNDWATER	65	70	8330N	PICRIC ACID	NO
27MW0017B	27MW0017B	4/30/1999	GROUNDWATER	21	26	8330N	1,3-DINITROBENZENE	NO
27MW0017B	27MW0017B	4/30/1999	GROUNDWATER	21	26	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	NO
27MW0017B	27MW0017B	4/30/1999	GROUNDWATER	21	26	8330N	NITROGLYCERIN	NO
27MW0017BD	27MW0017B	4/30/1999	GROUNDWATER	21	26	8330N	1,3-DINITROBENZENE	NO
27MW0017BD	27MW0017B	4/30/1999	GROUNDWATER	21	26	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	NO
27MW0017BD	27MW0017B	4/30/1999	GROUNDWATER	21	26	8330N	NITROGLYCERIN	NO
27MW0020Z	27MW0020Z	4/16/1999	GROUNDWATER	98	103	8330N	1,3-DINITROBENZENE	NO
90MW0005	90MW0005	4/19/1999	GROUNDWATER	98	103	8330N	1,3,5-TRINITROBENZENE	NO
90MW0005	90MW0005	4/19/1999	GROUNDWATER	98	103	8330N	NITROGLYCERIN	NO
90WT0015	90WT0015	4/23/1999	GROUNDWATER	0	10	8330N	NITROGLYCERIN	NO
W38M3A	MW-38	5/6/1999	GROUNDWATER	53	63	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
W38M4A	MW-38	5/6/1999	GROUNDWATER	15	25	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
W43M2A	MW-43	5/26/1999	GROUNDWATER	70	80	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
W45SSA	MW-45	5/26/1999	GROUNDWATER	0	10	8330N	1,3-DINITROBENZENE	NO
W45SSA	MW-45	5/26/1999	GROUNDWATER	0	10	8330N	2,6-DINITROTOLUENE	NO
W45SSA	MW-45	5/26/1999	GROUNDWATER	0	10	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
W45SSA	MW-45	5/26/1999	GROUNDWATER	0	10	8330N	3-NITROTOLUENE	NO
W45SSA	MW-45	5/26/1999	GROUNDWATER	0	10	8330N	4-NITROTOLUENE	NO
W45SSA	MW-45	5/26/1999	GROUNDWATER	0	10	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	NO
W45SSA	MW-45	5/26/1999	GROUNDWATER	0	10	8330N	NITROGLYCERIN	NO
W45SSA	MW-45	5/26/1999	GROUNDWATER	0	10	8330N	PICRIC ACID	NO
W50M1A	MW-50	4/27/1999	GROUNDWATER	90	100	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W50M1A	MW-50	4/27/1999	GROUNDWATER	90	100	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
W51SSA	MW-51	5/27/1999	GROUNDWATER	0	10	8330N	PICRIC ACID	
W54SSA	MW-54	4/30/1999	GROUNDWATER	0	10	8330N	NITROGLYCERIN	NO
W59SSA	MW-59	5/10/1999	GROUNDWATER	0	10	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES

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

TABLE 2
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/12/99-5/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
W59SSA	MW-59	5/10/1999	GROUNDWATER	0	10	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
G44MAA	MW-44	4/12/1999	PROFILE	137.6	137.6	8330N	3-NITROTOLUENE	NO
G44MAA	MW-44	4/12/1999	PROFILE	137.6	137.6	8330N	4-NITROTOLUENE	NO
G44MAA	MW-44	4/12/1999	PROFILE	137.6	137.6	8330N	NITROBENZENE	NO
G44MAA	MW-44	4/12/1999	PROFILE	137.6	137.6	8330N	NITROGLYCERIN	NO
G44MAA	MW-44	4/12/1999	PROFILE	137.6	137.6	8330N	PICRIC ACID	NO
G44MAA	MW-44	4/12/1999	PROFILE	137.6	137.6	OC21V	ACETONE	
G44MAA	MW-44	4/12/1999	PROFILE	137.6	137.6	OC21V	CHLOROMETHANE	
G44MAA	MW-44	4/12/1999	PROFILE	137.6	137.6	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G44MBA	MW-44	4/12/1999	PROFILE	147.6	147.6	8330N	1,3,5-TRINITROBENZENE	NO
G44MBA	MW-44	4/12/1999	PROFILE	147.6	147.6	8330N	3-NITROTOLUENE	NO
G44MBA	MW-44	4/12/1999	PROFILE	147.6	147.6	8330N	4-NITROTOLUENE	NO
G44MBA	MW-44	4/12/1999	PROFILE	147.6	147.6	8330N	NITROGLYCERIN	NO
G44MBA	MW-44	4/12/1999	PROFILE	147.6	147.6	8330N	PICRIC ACID	NO
G44MBA	MW-44	4/12/1999	PROFILE	147.6	147.6	OC21V	ACETONE	
G44MBA	MW-44	4/12/1999	PROFILE	147.6	147.6	OC21V	CHLOROMETHANE	
G44MBA	MW-44	4/12/1999	PROFILE	147.6	147.6	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G44MBD	MW-44	4/12/1999	PROFILE	147.6	147.6	8330N	1,3,5-TRINITROBENZENE	NO
G44MBD	MW-44	4/12/1999	PROFILE	147.6	147.6	8330N	3-NITROTOLUENE	NO
G44MBD	MW-44	4/12/1999	PROFILE	147.6	147.6	8330N	NITROGLYCERIN	NO
G44MBD	MW-44	4/12/1999	PROFILE	147.6	147.6	8330N	PICRIC ACID	NO
G44MBD	MW-44	4/12/1999	PROFILE	147.6	147.6	OC21V	ACETONE	
G44MBD	MW-44	4/12/1999	PROFILE	147.6	147.6	OC21V	CHLOROMETHANE	
G44MBD	MW-44	4/12/1999	PROFILE	147.6	147.6	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G44MCA	MW-44	4/13/1999	PROFILE	157.5	157.5	8330N	NITROGLYCERIN	NO
G44MCA	MW-44	4/13/1999	PROFILE	157.5	157.5	OC21V	ACETONE	
G44MCA	MW-44	4/13/1999	PROFILE	157.5	157.5	OC21V	CHLOROMETHANE	
G44MCA	MW-44	4/13/1999	PROFILE	157.5	157.5	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G44MDA	MW-44	4/13/1999	PROFILE	167.5	167.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	NO
G44MDA	MW-44	4/13/1999	PROFILE	167.5	167.5	8330N	NITROGLYCERIN	NO
G44MDA	MW-44	4/13/1999	PROFILE	167.5	167.5	OC21V	ACETONE	
G44MEA	MW-44	4/13/1999	PROFILE	177.5	177.5	8330N	NITROGLYCERIN	NO
G44MEA	MW-44	4/13/1999	PROFILE	177.5	177.5	OC21V	ACETONE	
G44MEA	MW-44	4/13/1999	PROFILE	177.5	177.5	OC21V	CHLOROMETHANE	
G44MEA	MW-44	4/13/1999	PROFILE	177.5	177.5	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	

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

TABLE 2
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/12/99-5/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
G44MEA	MW-44	4/13/1999	PROFILE	177.5	177.5	OC21V	XYLENES, TOTAL	
G44MFA	MW-44	4/13/1999	PROFILE	187.5	187.5	8330N	1,3,5-TRINITROBENZENE	NO
G44MFA	MW-44	4/13/1999	PROFILE	187.5	187.5	8330N	2,6-DINITROTOLUENE	YES
G44MFA	MW-44	4/13/1999	PROFILE	187.5	187.5	8330N	NITROGLYCERIN	NO
G44MFA	MW-44	4/13/1999	PROFILE	187.5	187.5	OC21V	ACETONE	
G44MFA	MW-44	4/13/1999	PROFILE	187.5	187.5	OC21V	CHLOROMETHANE	
G44MFA	MW-44	4/13/1999	PROFILE	187.5	187.5	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G44MGA	MW-44	4/13/1999	PROFILE	197.5	197.5	8330N	1,3,5-TRINITROBENZENE	NO
G44MGA	MW-44	4/13/1999	PROFILE	197.5	197.5	8330N	NITROGLYCERIN	NO
G44MGA	MW-44	4/13/1999	PROFILE	197.5	197.5	8330N	PICRIC ACID	NO
G44MGA	MW-44	4/13/1999	PROFILE	197.5	197.5	OC21V	ACETONE	
G44MGA	MW-44	4/13/1999	PROFILE	197.5	197.5	OC21V	CHLOROMETHANE	
G44MGA	MW-44	4/13/1999	PROFILE	197.5	197.5	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G44MHA	MW-44	4/13/1999	PROFILE	207.5	207.5	8330N	1,3,5-TRINITROBENZENE	NO
G44MHA	MW-44	4/13/1999	PROFILE	207.5	207.5	8330N	NITROGLYCERIN	NO
G44MHA	MW-44	4/13/1999	PROFILE	207.5	207.5	OC21V	ACETONE	
G44MHA	MW-44	4/13/1999	PROFILE	207.5	207.5	OC21V	CHLOROMETHANE	
G44MHA	MW-44	4/13/1999	PROFILE	207.5	207.5	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G44MIA	MW-44	4/13/1999	PROFILE	217.5	217.5	8330N	3-NITROTOLUENE	NO
G44MIA	MW-44	4/13/1999	PROFILE	217.5	217.5	8330N	4-NITROTOLUENE	NO
G44MIA	MW-44	4/13/1999	PROFILE	217.5	217.5	8330N	NITROGLYCERIN	NO
G44MIA	MW-44	4/13/1999	PROFILE	217.5	217.5	OC21V	ACETONE	
G44MIA	MW-44	4/13/1999	PROFILE	217.5	217.5	OC21V	CHLOROMETHANE	
G44MIA	MW-44	4/13/1999	PROFILE	217.5	217.5	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
G44MJA	MW-44	4/14/1999	PROFILE	227.5	227.5	8330N	NITROGLYCERIN	NO
G44MJA	MW-44	4/14/1999	PROFILE	227.5	227.5	8330N	PICRIC ACID	NO
G44MJA	MW-44	4/14/1999	PROFILE	227.5	227.5	OC21V	ACETONE	
G44MKA	MW-44	4/14/1999	PROFILE	237.5	237.5	8330N	3-NITROTOLUENE	NO
G44MKA	MW-44	4/14/1999	PROFILE	237.5	237.5	8330N	4-NITROTOLUENE	NO
G44MKA	MW-44	4/14/1999	PROFILE	237.5	237.5	8330N	NITROGLYCERIN	NO
G44MKA	MW-44	4/14/1999	PROFILE	237.5	237.5	8330N	PICRIC ACID	NO
G44MKA	MW-44	4/14/1999	PROFILE	237.5	237.5	OC21V	ACETONE	
G44MKA	MW-44	4/14/1999	PROFILE	237.5	237.5	OC21V	CHLOROMETHANE	
G44MKA	MW-44	4/14/1999	PROFILE	237.5	237.5	OC21V	METHYL ETHYL KETONE (2-BUTANONE)	
ABB001AAA	B-1	5/5/1999	SOIL BORING	3	4	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES

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TABLE 2
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/12/99-5/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
ABB001AAA	B-1	5/5/1999	SOIL BORING	3	4	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
ABB001EAA	B-1	5/5/1999	SOIL BORING	7	8	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
ABB001EAA	B-1	5/5/1999	SOIL BORING	7	8	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
ABB001EAA	B-1	5/5/1999	SOIL BORING	7	8	8330N	PICRIC ACID	NO
ABB002CAA	B-2	5/5/1999	SOIL BORING	5	6	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
ABB003AAA	B-3	5/6/1999	SOIL BORING	3	4	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
ABB003IAA	B-3	5/6/1999	SOIL BORING	11	12	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
ABB003IAA	B-3	5/6/1999	SOIL BORING	11	12	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
ABB004MAA	B-4	5/6/1999	SOIL BORING	15	16	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
ABB006AAA	B-6	5/5/1999	SOIL BORING	3	4	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
ABB006AAA	B-6	5/5/1999	SOIL BORING	3	4	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
ABB006BAA	B-6	5/5/1999	SOIL BORING	4	5	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
ABB006BAD	B-6	5/5/1999	SOIL BORING	4	5	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
ABB006BAD	B-6	5/5/1999	SOIL BORING	4	5	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
ABB006BAD	B-6	5/5/1999	SOIL BORING	4	5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
ABB006BAD	B-6	5/5/1999	SOIL BORING	4	5	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
ABB006CAA	B-6	5/5/1999	SOIL BORING	5	6	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
ABB006EAA	B-6	5/5/1999	SOIL BORING	7	8	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
ABB006EAA	B-6	5/5/1999	SOIL BORING	7	8	8330N	NITROGLYCERIN	YES
ABB006GAA	B-6	5/5/1999	SOIL BORING	9	10	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
ABB006MAA	B-6	5/5/1999	SOIL BORING	15	16	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
HC44B1AAA	44B	5/10/1999	SOIL GRID	0	0.25	8330N	NITROGLYCERIN	YES
HC44C1AAA	44C	5/10/1999	SOIL GRID	0	0.25	8330N	NITROGLYCERIN	YES
HC44D1AAA	44D	5/10/1999	SOIL GRID	0	.25	8330N	NITROGLYCERIN	YES
HC44E1AAA	44E	5/10/1999	SOIL GRID	0	0.25	8330N	NITROGLYCERIN	YES
HC44E1AAD	44E	5/10/1999	SOIL GRID	0	0.25	8330N	NITROGLYCERIN	YES
HC44E1CAA	44E	5/10/1999	SOIL GRID	0.5	1	8330N	NITROGLYCERIN	YES
HC44F1AAA	44F	5/11/1999	SOIL GRID	0	.25	8330N	NITROGLYCERIN	YES
HC44G1AAA	44G	5/11/1999	SOIL GRID	0	.25	8330N	NITROGLYCERIN	YES
HC44L1AAD	44L	5/12/1999	SOIL GRID	0	.25	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
HC44M1AAA	44M	5/12/1999	SOIL GRID	0	.25	8330N	NITROGLYCERIN	YES
HC44N1AAA	44N	5/12/1999	SOIL GRID	0	.25	8330N	2,4,6-TRINITROTOLUENE	YES
HC44N1AAA	44N	5/12/1999	SOIL GRID	0	.25	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
HC44N1AAA	44N	5/12/1999	SOIL GRID	0	.25	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
HC44N1BAA	44N	5/12/1999	SOIL GRID	.25	.5	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES

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

TABLE 2
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 4/12/99-5/31/99

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMP_TYPE	SBD	SED	METHOD	OGDEN_ANALYTE	PDA
HC44T1AAA	44T	5/11/1999	SOIL GRID	0	.25	8330N	NITROGLYCERIN	YES
HC44U1BAA	44U	5/11/1999	SOIL GRID	.25	.5	8330N	NITROGLYCERIN	YES
HD23H1AAA	23H	4/20/1999	SOIL GRID	0	.5	8330N	NITROGLYCERIN	YES
HD44B3AAA	44B	5/10/1999	SOIL GRID	0	0.25	8330N	NITROGLYCERIN	YES
HD44C3AAA	44C	5/10/1999	SOIL GRID	0	0.25	8330N	NITROGLYCERIN	YES
HD44C3BAA	44C	5/10/1999	SOIL GRID	0.25	0.5	8330N	NITROGLYCERIN	YES
HD44C3CAA	44C	5/10/1999	SOIL GRID	0.5	1	8330N	NITROGLYCERIN	YES
HD44D3AAA	44D	5/10/1999	SOIL GRID	0	.25	8330N	NITROGLYCERIN	YES
HD44D3BAA	44D	5/10/1999	SOIL GRID	.25	.5	8330N	NITROGLYCERIN	YES
HD44E3AAA	44E	5/10/1999	SOIL GRID	0	0.25	8330N	NITROGLYCERIN	YES
HD44E3AAD	44E	5/10/1999	SOIL GRID	0	0.25	8330N	NITROGLYCERIN	YES
HD44E3BAA	44E	5/10/1999	SOIL GRID	0.25	0.5	8330N	NITROGLYCERIN	YES
HD44G3AAA	44G	5/11/1999	SOIL GRID	0	.25	8330N	NITROGLYCERIN	YES
HD44L1AAA	44L	5/12/1999	SOIL GRID	0	.25	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
HD44L1AAD	44L	5/12/1999	SOIL GRID	0	.25	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
HD44L1BAA	44L	5/12/1999	SOIL GRID	.25	.5	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
HD44L1CAA	44L	5/12/1999	SOIL GRID	.5	1	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
HD44L5BAA	44L	5/12/1999	SOIL GRID	.25	.5	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES
HD44N4BAA	44N	5/12/1999	SOIL GRID	.25	.5	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
HD44N4CAA	44N	5/12/1999	SOIL GRID	.5	1	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
HD44N4CAA	44N	5/12/1999	SOIL GRID	.5	1	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
HD44N4CAA	44N	5/12/1999	SOIL GRID	.5	1	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZI	YES
HD44N4CAA	44N	5/12/1999	SOIL GRID	.5	1	8330N	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7	YES

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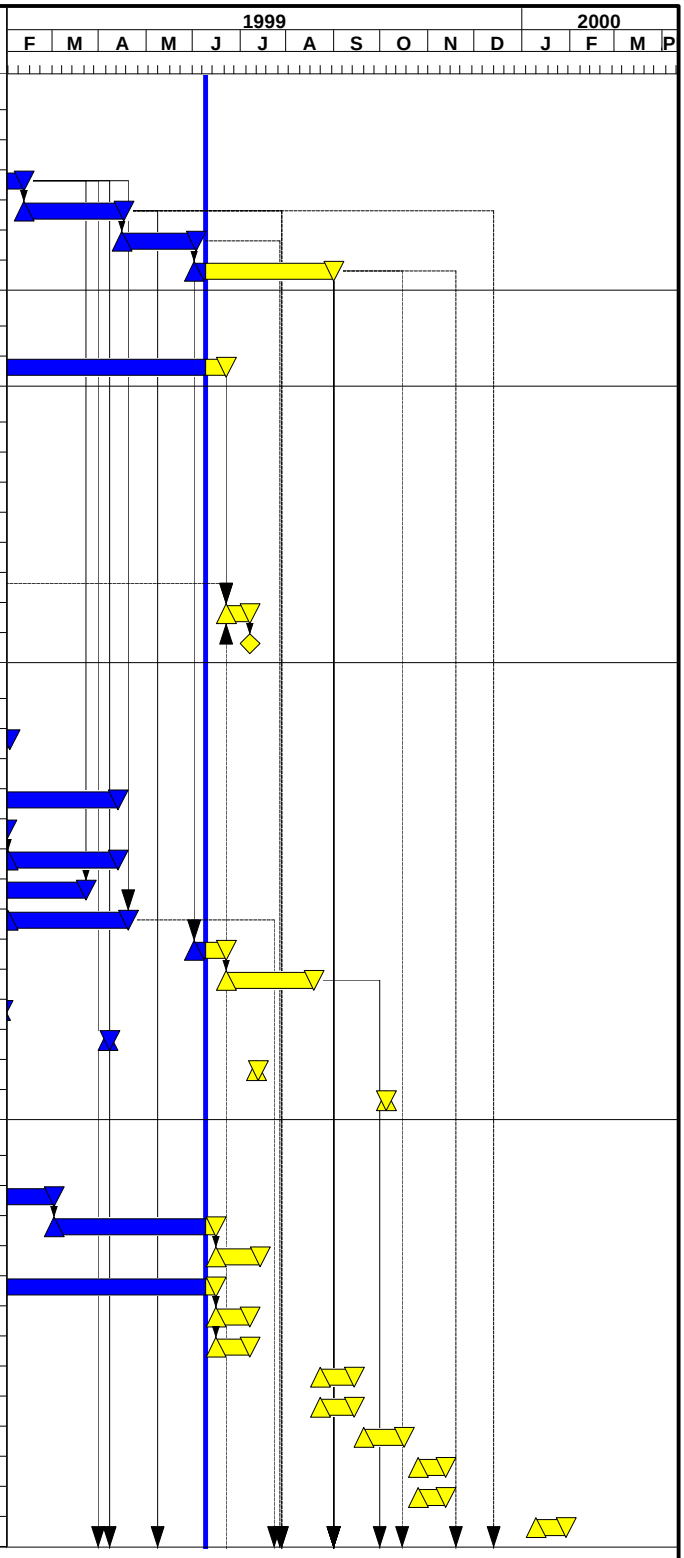
SED = SAMPLE COLLECTION END DEPTH (FEET BGS FOR SOILS AND PROFILE, FEET BELOW WATER TABLE FOR GROUNDWATER)
PDA/YES = Photo Diode Array, Detect Confirmed
PDA/NO = Photo Diode Array, Detect Not Confirmed

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 ($3.0M)	02JUN99A	31AUG99
2. Evaluate Analytical Methods		
Complete Draft PEP Analytical Report	05NOV98A	30NOV98A
EPA Comments/Revisions	01DEC98A	22JUN99
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	23JUN99	07JUL99
Submit Final Workplan		07JUL99
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	22JUN99
Install Group 2 FF Wells	23JUN99	18AUG99
Synoptic water levels round 1	26JAN99A	26JAN99A
Synoptic water levels round 2	07APR99A	07APR99A
Synoptic water levels round 3	12JUL99*	12JUL99
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	15JUN99
Sample (6a) MMR Wells DW/PEP 2Q99	16JUN99	14JUL99
Setup split sampling for wells	08JAN99A	15JUN99
Sample (6b) non-MMR wells PEP 2Q99	16JUN99	07JUL99
Sample (6c) MMR wells PEP 2Q99	16JUN99	07JUL99
Sample (6b) non-MMR wells PEP 3Q99	23AUG99*	13SEP99
Sample (6c) MMR wells PEP 3Q99	23AUG99*	13SEP99
Sample (6d) MMR wells DW/PEP 3Q99	20SEP99*	15OCT99
Sample (6b) non-MMR wells PEP 4Q99	25OCT99*	12NOV99
Sample (6c) MMR wells PEP 4Q99	25OCT99*	12NOV99
Sample (6b) non-MMR wells PEP 1Q00	10JAN00*	28JAN00



Project Start 14AUG98
Project Finish 26JAN01
Data Date 09JUN99
Run Date 10JUN99

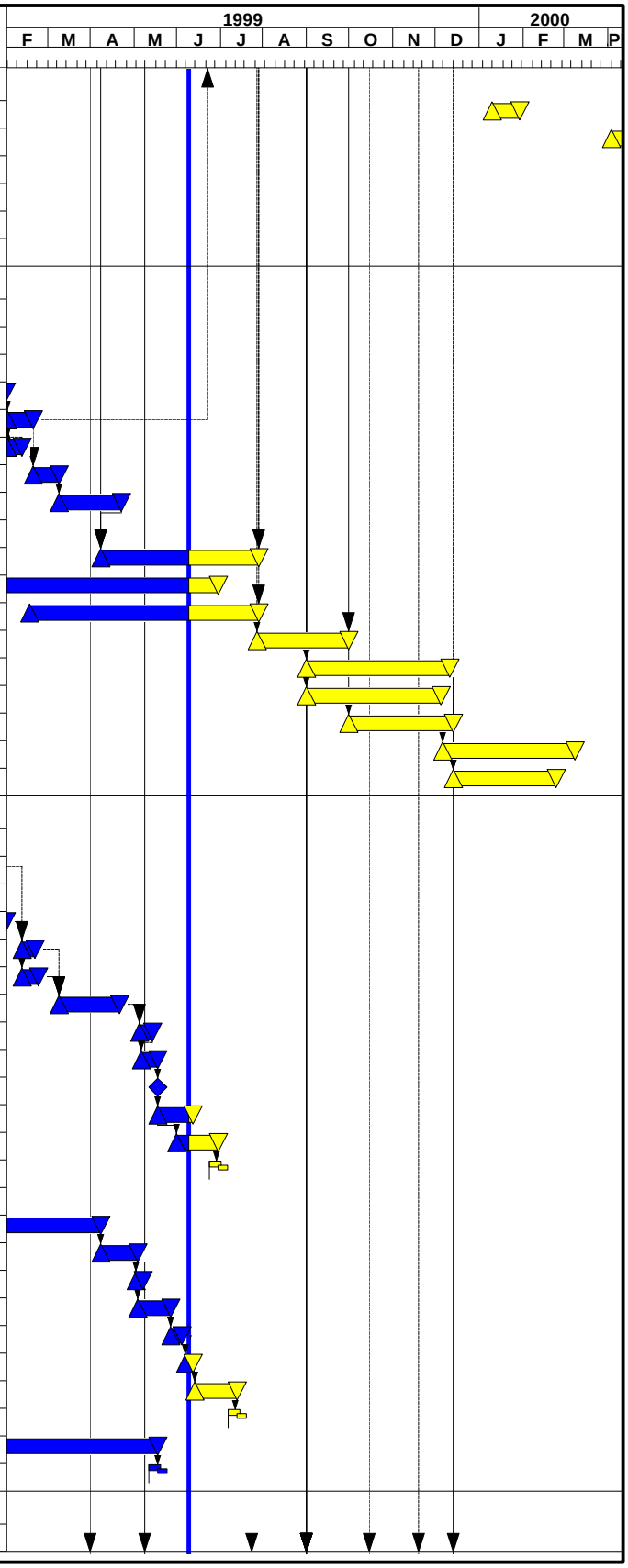
Early Bar
Progress Bar

MMR6

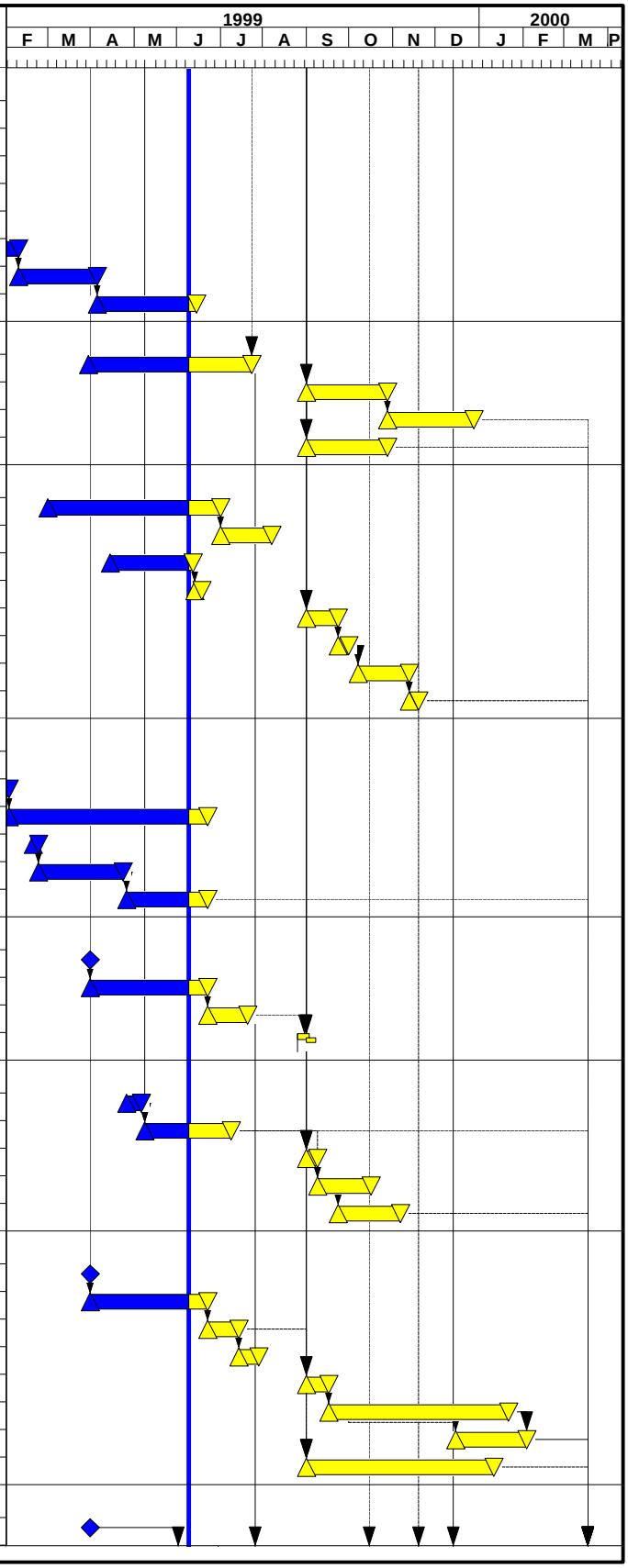
Sheet 1 of 4

Figure 1. Schedule for Completion of the Impact Area Groundwater Study as of 6/9/99

Activity Description	Early Start	Early Finish
5. Phase I Sampling of Water Supply Wells		
Sample (6c) MMR wells PEP 1Q00	10JAN00*	28JAN00
Sample (6c) MMR wells PEP 2Q00	03APR00*	21APR00
Sample (6c) MMR wells PEP 3Q00	10JUL00*	28JUL00
Sample (6d) MMR wells DW/PEP 3Q00	10JUL00*	18AUG00
Sample (6c) MMR wells PEP 4Q00	09OCT00*	27OCT00
Sample (6c) MMR wells PEP 1Q01	08JAN01*	26JAN01
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	28JUL99
Sample/Analyze Phase I Wells Round 2	06JAN99A	29JUN99
Sample/Analyze G1 FF Wells Round 1	17FEB99A	28JUL99
Sample/Analyze G2 FF Wells Round 1	28JUL99	30SEP99
Sample/Analyze Phase I Wells Round 3	01SEP99	10DEC99
Sample/Analyze G1 FF Wells Round 2	01SEP99	03DEC99
Sample/Analyze G2 FF Wells Round 2	01OCT99	13DEC99
Sample/Analyze G1 FF Wells Round 3	06DEC99*	07MAR00
Sample/Analyze G2 FF Wells Round 3	14DEC99	23FEB00
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	11JUN99
Scoping response activities	01JUN99A	29JUN99
Begin Demo 1 Response Activities		29JUN99
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	11JUN99
Soil Sample Analysis/Evaluation	14JUN99	12JUL99
Submit Soil Data/Response Plan to EPA		12JUL99
Evaluate Pilot Testing & Remedies	21DEC98A	18MAY99A
Submit draft remedy evaluation to EPA		18MAY99A
8. Phase II (a) Workplan		
Prepare Phase II(a) Workplan	24AUG98A	11SEP98A



Activity Description	Early Start	Early Finish
8. Phase II (a) Workplan		
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	14JUN99
9. Phase II Investigate Exceedances		
Sample/Analyze Ph. II(a) Wells Round 1	30MAR99A	23JUL99
Sample/Analyze Ph. II(a) Wells Round 2	01SEP99	27OCT99
Sample/Analyze Ph. II(a) Wells Round 3	28OCT99	27DEC99
Soil Sampling/Analysis for Source Areas	01SEP99	27OCT99
10. Phase II Characterize J Ranges		
Data Collection for J Ranges	01MAR99A	01JUL99
Prepare J Range Workplan	02JUL99	06AUG99
Sampling/Analysis for J-3 Wetland	15APR99A	11JUN99
Review J-3 Wetland Results with EPA	14JUN99	18JUN99
Soil Sampling/Analysis for Steel Pit	01SEP99	22SEP99
Monitoring well installation for Steel Pit	23SEP99	29SEP99
Sample/Analyze monitoring well	07OCT99	11NOV99
Review Steel Pit results with EPA	12NOV99	18NOV99
11. Phase II Survey for Munitions Disposal		
Technology Meeting	09DEC98A	09DEC98A
Prepare Survey Work Plan	10DEC98A	01FEB99A
Review/Revise Workplan	02FEB99A	22JUN99
Excavation/Sampling of Brick-lined Pits	19FEB99A	22FEB99A
Analysis of Brick-lined Pit Samples	23FEB99A	23APR99A
Review Brick-lined Pit data w/EPA	26APR99A	22JUN99
12. Phase II Characterize Training Areas		
Completion of Archives Search Report		31MAR99A
Phase II (a) Workplan for Training Areas	01APR99A	21JUN99
EPA Review/Approve Workplan	22JUN99	20JUL99
Begin Training Area Investigations		31AUG99
13. Phase II Characterize KD and U Ranges		
MIDAS search for analytes	27APR99A	06MAY99A
Soil Sampling/Analysis for KD and U	10MAY99A	09JUL99
UXO Clearance for Monitoring Wells	01SEP99	08SEP99
Monitoring Well installations at KD and U	09SEP99	15OCT99
Sample/Analyze monitoring wells	23SEP99	05NOV99
14. Phase II Characterize Gun/Mortar Positions		
Completion of Archives Search Report		31MAR99A
Develop Field Sampling Plan	01APR99A	22JUN99
EPA Review/Approve FSP	23JUN99	14JUL99
Soil Sampling/Analysis at GP-16	15JUL99	28JUL99
Mobilize drilling equipment	01SEP99	15SEP99
Install Monitoring Wells at Gun/Mortar	16SEP99	20JAN00
Sample/Analyze monitoring wells	15DEC99	03FEB00
Soil Sampling/Analysis at Gun/Mortar	01SEP99	10JAN00
15. Phase II Characterize Trenches, Excav., etc		
Completion of Archives Search Report		31MAR99A



Activity Description	Early Start	Early Finish
15. Phase II Characterize Trenches, Excav., etc		
Scoping for UXO Contractor	02JUN99A	29JUN99
Mobilize UXO Contractor	30JUN99	14JUL99
Assessment of site features	15JUL99	11AUG99
Review data with EPA	12AUG99	25AUG99
Phase II (a) Workplan for Trenches, etc.	26AUG99	21OCT99
EPA Review/Approve Workplan	22OCT99	18NOV99
Begin Trenches Investigations		18NOV99
16. Phase II Sampling Groundwater at SAR		
Install Monitoring Wells at SAR	09MAR99A	23APR99A
Sample/Analyze Monitoring Wells	27MAY99A	02JUL99
17. Phase II Characterize Mortar Targets		
Scoping for UXO Contractor	02JUN99A	29JUN99
Mobilize UXO Contractor	30JUN99	14JUL99
Reconnaissance of Targets	15JUL99	28JUL99
Discuss sampling plan with EPA	29JUL99	04AUG99
Prepare draft FSP	05AUG99	09SEP99
EPA review/comment on FSP	10SEP99	30SEP99
Prepare final FSP	01OCT99	14OCT99
Begin Mortar Targets Investigations		14OCT99
18. Reports and Meetings		
Progress Reports	10SEP98A	13JUL00
Phase II Interim Results Report	26JUL99	20SEP99
Draft Interim Longterm Monitoring Report	13DEC99	17JAN00
Review Draft ILM Report	18JAN00	15FEB00
Final ILM Report	16FEB00	14MAR00
Draft Phase II Compl. Work Report	07JAN00	17MAR00
Review Draft Phase II CWR	20MAR00	12MAY00
Final Phase II CWR	15MAY00	12JUN00