WEEKLY PROGRESS UPDATE
FOR JANUARY 31– FEBRUARY 4, 2000

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

The following summary of progress is for the period from January 31 to February 4, 2000.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of February 4 is summarized in Table 1.

Table 1. Drilling progress as of February 4, 2000

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-85	Impact Area Response Well	200	82	

bgs = below ground surface
bwt = below water table

Drilling commenced on monitoring well MW-85 (Impact Area response well P-9). Well development continued for newly installed Demo 1 response wells. UXO clearance continued on Turpentine Road and at the Impact Area response well pads. UXO avoidance continued at soil sampling locations for Gun and Mortar positions.

Samples collected during the reporting period are summarized in Table 2. The third round of groundwater sampling was completed for the Supplemental IRP wells. The third round of groundwater sampling was initiated for the on- and off-base water supply wells, and the second round of groundwater sampling was initiated for the gun and mortar position wells. Groundwater profile samples were collected from the MW-85 boring during drilling in the Impact Area. Soil sampling continued on the Gun and Mortar positions at the Former GP-4 (Area 55), Former GP-3 (Area 63), Former GP-15 (Area 64), and Former F Range (Area 78). Soil sampling was completed on the revised GS-7 (Area 90) and GS-9 (Area 92). Soil samples were collected from the MW-85 boring during drilling in the Impact Area. A site walk of Tank Alley was conducted with Ogden, the DEP, and the EPA on February 3.

The Guard, EPA, and MADEP had a meeting on February 3 to discuss technical issues, including the following:

- An update of the CS-19 field activities was presented by Jacobs Engineering. A 1-page handout of the map of the particle tracks from CS-19 and the locations of the proposed monitoring wells was provided. The 58MW0017 boring hit refusal at 200' bgs and the water table at 135' bgs. 58MW0017 profile results have been received with no detections for VOC and RDX detected at 0.33 and 0.38 at 135'-140' bgs and 165'-170' bgs respectively. The soil boring at 58MW0018 is at a depth of 80' bgs. Two of the six deep hand auger samples have been completed to a depth of 10 feet. The advancement of the hand augers has been difficult. Ogden indicated that the location of 58MW0018 is close to the proposed P-17 RDX response well location. The location of P-17 may need to be adjusted since the work at 58MW0018 has commenced.

- An update of the Munitions Survey was presented by Tetra Tech. Continue to clear brush at Demo 1. Geophysical survey continues at MP-4. The Guard asked if the shift changes were causing delays.

Tetra Tech indicated that this was just part of the 4 days off after a 10 day shift and it was not causing a delay. The Guard asked the status of the high use target areas. Tetra Tech indicated that they are in the process of photo interpretation to locate the 6-acre area and the plan is expected next week.

- An update of the Groundwater Study was presented by Ogden. Continue to soil sample at the Gun and Mortar grids. Continue drilling at MW-85 (P-9) and should finish today. Tentatively plan to have a conference call on Monday afternoon to select screens for this location. Finishing the groundwater sampling of supplemental IRP wells and available Demo 1 response wells this week. Development of the remaining Demo 1 response wells (MW-74 and MW-78) is underway and should be able to sample next week. UXO clearance continues on RDX response well pads and at the revised GS-7 location.

- A 3-page (double-sided) handout of the draft milestone schedule was distributed at the Guard's request. Significant changes from the previous draft, distributed in early December, were discussed. A regulatory review cycle for the MOR was added to most of the schedules, along with the milestones suggested by EPA. The Impact Area Response Plan (IARP) well drilling was moved back by two weeks due to the delay caused by weather. This change impacted subsequent activities in the IARP schedule, although Ogden will work to reduce the delay by making up time during drilling, if possible. The 104e request for the J-2 Range Investigation will be sent out to MIT/Lincoln Labs shortly. The Guard is still looking for input from EPA on how other PRPs can be identified. The J-1/J3 Range Investigations Draft Phase I Report is scheduled for submittal by March based on discussions last week with Textron at the site walk. The Guard indicated Textron has verbally requested an extension to this timeline. Phase II Gun and Mortar soil sampling is underway. Trenches Investigations soil sampling is done except for the additional sampling of GS-7 which would push the completion date back about one week; no change is proposed in the milestone (time will be made up in report preparation). Mortar Targets Investigations soil sampling is complete and this activity is on schedule. The EPA requested that this schedule be e-mailed to the Technical Team members.

- Guard presented Water Supply Update since JPO was not available. Crews have completed the 6" test well and two 2-1/2" observation wells at WS-5 and have mobilized to WS-4 location. The Guard asked if they are using STL as their laboratory and getting PDA with the explosives. Ogden indicated that they think they are but would check into it.

- Ogden presented an Update of the Rapid Response Action Planning. A meeting was held yesterday with the contractors. The draft workplan is due March 1 and EPA comments are due back by March 31. The work plan will be a document to address AO3 and a RAM Plan or a combination of the two. The EPA requested that there only is one document. Community involvement will be included in the schedule.

- The recent soil sample results were distributed and reviewed:

  - Mortar Target 1 results were e-mailed on 2/1/00. There was 1 detection of RDX, and VOCs detected were acetone, MEK, and toluene. There were no detections that exceeded the RCS-1 standards. Ogden continues working on a revised DI preservation method, and a revised decontamination method for cold weather sampling. There was a discussion of why the RDX was detected in the 6-12 inch sample but not the 0-3 or 3-6 inch samples.

  - Demo 1 soil grid data are available, but PDA are not available yet and some samples required dilutions which are not yet completed. Ogden indicated that there were several explosive detections at relatively high (>10,000 ppb) concentrations. Data should be ready for review next week.

- A 1-page handout of the GS-7 Target Buoy (Area 90) data indicated no explosive detections.

- A 1-page (2-sided) handout of the results from the January UXO detonation craters indicated that RDX and HMX were detected in the craters from the 81mm rounds detonated on Turpentine Road. This crater area will be covered to prevent disturbances due to road building activities associated with the RDX response wells, until the soil can be excavated. No explosives were detected in the air samples.

- Ogden presented an update of the Berm Maintenance Program. The separated materials from the Bryce Environmental process have gone through the Maectite process. Results indicate the lead levels below the criteria. The Guard would like a letter from EPA to agree to prepare this material to be used in the training area. EPA requested the data before they prepare a letter.

- Revised maps of the Gun and Mortar soil sampling results for pesticides and herbicides were distributed for review. These maps were revised to include pesticides and herbicides that were detected which do not have RCS-1 values, in addition to those that were detected above the RCS-1 standards. There is no map for Area 54 (GP-14) because no compounds were detected in either of these two categories. The maps for Areas 59 (GP-8), 60 (GP-10), and 61 (GP-11) show a total of three new compounds detected that do not have RCS-1 values.

- EPA requested some changes to the handouts from the postponed IART meeting: the CS-19 inset needs to show some roads; AFCEE has updated the well locations at CS-1 and Inset C should have these revised well locations; check on the explosive detection map symbol for 27MW0017B; and the table showing the chloroform detections should have the revised health advisory (80 ppb) for chloroform.

- The EPA indicated that INEL is available for the conference call next Tuesday (1000) to discuss the vadose zone model.

2. SUMMARY OF DATA RECEIVED

Rush data are summarized in Table 3. These data are for analyses that are performed on a fast turnaround time, typically 1-5 days. Explosive analyses for monitoring wells, and explosive and VOC analyses for groundwater profile samples, are conducted in this timeframe. The rush data are not validated, but are provided as an indication of the most recent preliminary results. Table 3 summarizes only detects, and does not show samples with non-detects.

The status of the detections with respect to confirmation using Photo Diode Array (PDA) spectra is indicated in Table 3. PDA is a procedure that has been implemented for the explosive analysis, to reduce the likelihood of false positive identifications. Where the PDA status is “YES” in Table 3, the detected compound is verified as properly identified. Where the status is “NO”, the identification of an explosive has been determined to be a false positive. Where the status is blank, PDA has not yet been used to evaluate the detection, or PDA is not applicable because the analyte is a VOC. Most explosive detections verified by PDA are confirmed to be present upon completion of validation. Table 3 includes the following detections:

- Groundwater profile samples from MW-85 had detections of 3-nitrotoluene (3-NT; 3 intervals), RDX (5 intervals), PETN (2 intervals), 1,3,5-trinitrobenzene, 2,6-dinitrotoluene (2,6-DNT; 1 interval), 2-amino-4,6-dinitrotoluene (2A-DNT; 1 interval), nitroglycerin (2 intervals), and 4-nitrotoluene (2 intervals). The detections of RDX, 2,6-DNT, 2A-DNT, and one of the two 3-NTs were verified by PDA spectra.

- The post UXO detonation crater from the Eastern crater (81mm mortar) on Turpentine Road had a detection of RDX in the discrete sample, which was verified by PDA spectra.

- The groundwater samples from Demo 1 response wells MW-76M2, MW-76S, and MW-77M2 had detections of RDX and HMX, which were verified by PDA spectra. This was the first sampling event for these new wells. These compounds were detected in the profile samples associated with these well screens.

3. DELIVERABLES SUBMITTED

The following deliverables were submitted during this reporting period:

Weekly Update for January 17 – 21, 2000 2/1/00

4. SCHEDULED ACTIONS

Scheduled actions for the week of February 7 include the installation of wells at MW-85 (Impact Area response well P-9); the commencement of drilling on MW-86 (Impact Area response well P-12); continued development of newly installed wells; the continued soil sampling of Gun and Mortar positions; groundwater sampling of the second round of gun and mortar wells and first round of Demo 1 response wells; continued UXO clearance of Impact Area response well pads; continued UXO avoidance at Gun and Mortar grids.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Development of the Demo 1 response well MW-74 will continue next week. Groundwater sampling will continue next week on response well MW-78.

Crews will continue clearing brush this week and will continue next week for the Munitions Survey work in Demo 1.

TABLE 2
SAMPLING PROGRESS
1/31/00-2/4/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
11MW0001E	FIELDQC	02/04/2000	FIELDQC	0.00	0.00		
90MW0005E	FIELDQC	01/31/2000	FIELDQC	0.00	0.00		
90MW0029BE	FIELDQC	02/03/2000	FIELDQC	0.00	0.00		
90WT0015E	FIELDQC	02/02/2000	FIELDQC	0.00	0.00		
G85MAE	FIELDQC	02/02/2000	FIELDQC	0.00	0.00		
G85MDE	FIELDQC	02/03/2000	FIELDQC	0.00	0.00		
HC55A1AAE	FIELDQC	02/01/2000	FIELDQC	0.00	0.00		
HC55D1AAT	FIELDQC	02/02/2000	FIELDQC	0.00	0.00		
HC63D1BAE	FIELDQC	02/03/2000	FIELDQC	0.00	0.00		
HC63G1BAT	FIELDQC	02/04/2000	FIELDQC	0.00	0.00		
HC64A1AAT	FIELDQC	02/03/2000	FIELDQC	0.00	0.00		
HC64H1AAE	FIELDQC	02/04/2000	FIELDQC	0.00	0.00		
HC78G1AAT	FIELDQC	01/31/2000	FIELDQC	0.00	0.00		
HC78H1AAE	FIELDQC	01/31/2000	FIELDQC	0.00	0.00		
HC78Q1AAE	FIELDQC	02/02/2000	FIELDQC	0.00	0.00		
PPAWSMW-3E	FIELDQC	02/01/2000	FIELDQC	0.00	0.00		
S85CAE	FIELDQC	02/01/2000	FIELDQC	0.00	0.00		
S85CAT	FIELDQC	02/01/2000	FIELDQC	0.00	0.00		
S85KAE	FIELDQC	02/02/2000	FIELDQC	0.00	0.00		
11MW0001	11MW0001	02/04/2000	GROUNDWATER	107.50	117.50	-45.38	-35.38
15MW0001	15MW0001	02/03/2000	GROUNDWATER	111.00	121.00	-5.70	4.30
15MW0007	15MW0007	02/04/2000	GROUNDWATER	114.00	124.00	-3.22	6.78
4036000-01G	4036000-01G	02/02/2000	GROUNDWATER				
4036000-01GD	4036000-01G	02/02/2000	GROUNDWATER				
4036000-03G	4036000-03G	02/02/2000	GROUNDWATER				
4036000-03GD	4036000-03G	02/02/2000	GROUNDWATER				
4036000-04G	4036000-04G	02/02/2000	GROUNDWATER				
4036000-06G	4036000-06G	02/02/2000	GROUNDWATER				
4036003-01G	4036003-01G	02/02/2000	GROUNDWATER				
4036003-01GD	4036003-01G	02/02/2000	GROUNDWATER				
4261000-02G	4261000-02G	02/01/2000	GROUNDWATER				
4261000-03G	4261000-03G	02/01/2000	GROUNDWATER				
4261000-04G	4261000-04G	02/01/2000	GROUNDWATER				
4261000-05G	4261000-05G	02/01/2000	GROUNDWATER				
4261000-06G	4261000-06G	02/01/2000	GROUNDWATER				
4261000-09G	4261000-09G	02/01/2000	GROUNDWATER				
4261000-11G	4261000-11G	02/01/2000	GROUNDWATER				
90LWA0007	90LWA0007	02/01/2000	GROUNDWATER	92.00	102.00	-2.00	8.00
90MW0005	90MW0005	01/31/2000	GROUNDWATER	184.00	189.00	92.80	97.80
90MW0014	90MW0014	01/31/2000	GROUNDWATER	103.00	108.00	73.30	78.30
90MW0019	90MW0019	01/31/2000	GROUNDWATER	156.00	166.00	67.75	77.75
90MW0021	90MW0021	02/01/2000	GROUNDWATER	122.00	132.00	27.81	37.81
90MW0029B	90MW0029B	02/03/2000	GROUNDWATER	224.00	234.00	140.68	150.68

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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SAMPLING PROGRESS
1/31/00-2/4/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
90MW0031	90MW0031	02/02/2000	GROUNDWATER	190.00	200.00	101.50	111.50
90MW0031D	90MW0031	02/02/2000	GROUNDWATER	190.00	200.00	101.50	111.50
90MW0038	90MW0038	02/02/2000	GROUNDWATER	94.00	104.00	24.20	34.20
90WT0015	90WT0015	02/02/2000	GROUNDWATER	90.00	100.00	0.65	10.65
90WT0015D	90WT0015	02/02/2000	GROUNDWATER	90.00	100.00	0.65	10.65
PPAWSMW-1	PPAWSMW-1	02/01/2000	GROUNDWATER	220.00	230.00	0.03	10.03
PPAWSMW-2	PPAWSMW-2	02/01/2000	GROUNDWATER	220.00	230.00	1.10	11.10
PPAWSMW-3	PPAWSMW-3	02/01/2000	GROUNDWATER	220.00	230.00	-0.81	9.19
PPAWSPW-1	PPAWSPW-1	02/01/2000	GROUNDWATER				
PPAWSPW-2	PPAWSPW-2	02/01/2000	GROUNDWATER				
W64SSA	MW-64	02/04/2000	GROUNDWATER	87.00	97.00	-6.93	3.07
GAC13	GAC WATER	02/03/2000	IDW	0.00	0.00		
GAC7402	GAC WATER	02/03/2000	IDW	0.00	0.00		
G85MAA	MW-85	02/02/2000	PROFILE	120.00	120.00	2.00	2.00
G85MBA	MW-85	02/02/2000	PROFILE	130.00	130.00	12.00	12.00
G85MBD	MW-85	02/02/2000	PROFILE	130.00	130.00	12.00	12.00
G85MCA	MW-85	02/03/2000	PROFILE	140.00	140.00	22.00	22.00
G85MDA	MW-85	02/03/2000	PROFILE	150.00	150.00	32.00	32.00
G85MEA	MW-85	02/03/2000	PROFILE	160.00	160.00	42.00	42.00
G85MFA	MW-85	02/03/2000	PROFILE	170.00	170.00	52.00	52.00
G85MGA	MW-85	02/03/2000	PROFILE	180.00	180.00	62.00	62.00
G85MHA	MW-85	02/03/2000	PROFILE	190.00	190.00	72.00	72.00
G85MIA	MW-85	02/03/2000	PROFILE	200.00	200.00	82.00	82.00
HC55A1AAA	55A	02/01/2000	SOIL GRID	0.00	0.50		
HC55A1BAA	55A	02/01/2000	SOIL GRID	1.50	2.00		
HC55B1AAA	55B	02/01/2000	SOIL GRID	0.00	0.50		
HC55B1BAA	55B	02/01/2000	SOIL GRID	1.50	2.00		
HC55B1BAD	55B	02/01/2000	SOIL GRID	1.50	2.00		
HC55C1AAA	55C	01/31/2000	SOIL GRID	0.00	0.50		
HC55C1BAA	55C	02/01/2000	SOIL GRID	1.50	2.00		
HC55D1AAA	55D	02/02/2000	SOIL GRID	0.00	0.50		
HC55D1BAA	55D	02/02/2000	SOIL GRID	1.50	2.00		
HC55E1AAA	55E	02/01/2000	SOIL GRID	0.00	0.50		
HC55E1BAA	55E	02/01/2000	SOIL GRID	1.50	2.00		
HC55F1AAA	55F	02/01/2000	SOIL GRID	0.00	0.50		
HC55F1AAD	55F	02/01/2000	SOIL GRID	0.00	0.50		
HC55F1BAA	55F	02/01/2000	SOIL GRID	1.50	2.00		
HC63A1AAA	63A	02/02/2000	SOIL GRID	0.00	0.50		
HC63A1BAA	63A	02/02/2000	SOIL GRID	1.50	2.00		
HC63B1AAA	63B	02/02/2000	SOIL GRID	0.00	0.50		
HC63B1BAA	63B	02/02/2000	SOIL GRID	1.50	2.00		
HC63C1AAA	63C	02/02/2000	SOIL GRID	0.00	0.50		
HC63C1AAD	63C	02/02/2000	SOIL GRID	0.00	0.50		
HC63C1BAA	63C	02/02/2000	SOIL GRID	1.50	2.00		

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
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TABLE 2
SAMPLING PROGRESS
1/31/00-2/4/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC63D1AAA	63D	02/03/2000	SOIL GRID	0.00	0.50		
HC63D1BAA	63D	02/03/2000	SOIL GRID	1.50	2.00		
HC63E1AAA	63E	02/03/2000	SOIL GRID	0.00	0.50		
HC63E1BAA	63E	02/03/2000	SOIL GRID	1.50	2.00		
HC63F1AAA	63F	02/03/2000	SOIL GRID	0.00	0.50		
HC63F1BAA	63F	02/03/2000	SOIL GRID	1.50	2.00		
HC63G1AAA	63G	02/03/2000	SOIL GRID	0.00	0.50		
HC63G1BAA	63G	02/04/2000	SOIL GRID	1.50	2.00		
HC63G1BAD	63G	02/04/2000	SOIL GRID	1.50	2.00		
HC63H1AAA	63H	02/03/2000	SOIL GRID	0.00	0.50		
HC63H1BAA	63H	02/03/2000	SOIL GRID	1.50	2.00		
HC63I1AAA	63I	02/03/2000	SOIL GRID	0.00	0.50		
HC63I1BAA	63I	02/03/2000	SOIL GRID	1.50	2.00		
HC63J1AAA	63J	02/04/2000	SOIL GRID	0.00	0.50		
HC63J1BAA	63J	02/04/2000	SOIL GRID	1.50	2.00		
HC63J1BAD	63J	02/04/2000	SOIL GRID	1.50	2.00		
HC64A1AAA	64A	02/03/2000	SOIL GRID	0.00	0.50		
HC64A1AAD	64A	02/03/2000	SOIL GRID	0.00	0.50		
HC64A1BAA	64A	02/03/2000	SOIL GRID	1.50	2.00		
HC64B1AAA	64B	02/03/2000	SOIL GRID	0.00	0.50		
HC64B1BAA	64B	02/03/2000	SOIL GRID	1.50	2.00		
HC64C1AAA	64C	02/03/2000	SOIL GRID	0.00	0.50		
HC64C1BAA	64C	02/03/2000	SOIL GRID	1.50	2.00		
HC64E1AAA	64E	02/03/2000	SOIL GRID	0.00	0.50		
HC64E1BAA	64E	02/03/2000	SOIL GRID	1.50	2.00		
HC64E1BAD	64E	02/03/2000	SOIL GRID	1.50	2.00		
HC64F1AAA	64F	02/04/2000	SOIL GRID	0.00	0.50		
HC64F1BAA	64F	02/04/2000	SOIL GRID	1.50	2.00		
HC64G1AAA	64G	02/04/2000	SOIL GRID	0.00	0.50		
HC64H1AAA	64H	02/04/2000	SOIL GRID	0.00	0.50		
HC64I1AAA	64I	02/04/2000	SOIL GRID	0.00	0.50		
HC78F1AAA	78F	01/31/2000	SOIL GRID	0.00	0.50		
HC78F1AAD	78F	01/31/2000	SOIL GRID	0.00	0.50		
HC78G1AAA	78G	01/31/2000	SOIL GRID	0.00	0.50		
HC78G1BAA	78G	01/31/2000	SOIL GRID	1.50	2.00		
HC78H1AAA	78H	01/31/2000	SOIL GRID	0.00	0.50		
HC78H1BAA	78H	01/31/2000	SOIL GRID	1.50	2.00		
HC78I1AAA	78I	01/31/2000	SOIL GRID	0.00	0.50		
HC78I1BAA	78I	01/31/2000	SOIL GRID	1.50	2.00		
HC78J1AAA	78J	02/01/2000	SOIL GRID	0.00	0.50		
HC78J1BAA	78J	02/01/2000	SOIL GRID	1.50	2.00		
HC78K1AAA	78K	02/01/2000	SOIL GRID	0.00	0.50		
HC78K1BAA	78K	02/01/2000	SOIL GRID	1.50	2.00		
HC78L1AAA	78L	02/01/2000	SOIL GRID	0.00	0.50		

Profiling methods include: Volatiles and Explosives
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Other Sample Types methods are variable
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TABLE 2
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1/31/00-2/4/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC78L1BAA	78L	02/01/2000	SOIL GRID	1.50	2.00		
HC78M1AAA	78M	02/01/2000	SOIL GRID	0.00	0.50		
HC78M1BAA	78M	02/01/2000	SOIL GRID	1.50	2.00		
HC78N1AAA	78N	02/02/2000	SOIL GRID	0.00	0.50		
HC78N1AAD	78N	02/02/2000	SOIL GRID	0.00	0.50		
HC78N1BAA	78N	02/02/2000	SOIL GRID	1.50	2.00		
HC78O1AAA	78O	02/01/2000	SOIL GRID	0.00	0.50		
HC78O1BAA	78O	02/01/2000	SOIL GRID	1.50	2.00		
HC78P1AAA	78P	02/02/2000	SOIL GRID	0.00	0.50		
HC78P1BAA	78P	02/02/2000	SOIL GRID	1.50	2.00		
HC78Q1AAA	78Q	02/02/2000	SOIL GRID	0.00	0.50		
HC78Q1BAA	78Q	02/02/2000	SOIL GRID	1.50	2.00		
HC90C1AAA	90C	02/04/2000	SOIL GRID	0.00	0.50		
HC90C1BAA	90C	02/04/2000	SOIL GRID	1.50	2.00		
HC90D1AAA	90D	02/04/2000	SOIL GRID	0.00	0.50		
HC90D1BAA	90D	02/04/2000	SOIL GRID	1.50	2.00		
HC90D1BAD	90D	02/04/2000	SOIL GRID	1.50	2.00		
HC92E1AAA	92E	01/31/2000	SOIL GRID	0.00	0.50		
HC92E1BAA	92E	01/31/2000	SOIL GRID	1.50	2.00		
HC92F1AAA	92F	01/31/2000	SOIL GRID	0.00	0.50		
HC92F1BAA	92F	01/31/2000	SOIL GRID	1.50	2.00		
HC92F1BAD	92F	01/31/2000	SOIL GRID	1.50	2.00		
HD90C1AAA	90C	02/04/2000	SOIL GRID	0.00	0.50		
HD90C1BAA	90C	02/04/2000	SOIL GRID	1.50	2.00		
HD90C2AAA	90C	02/04/2000	SOIL GRID	0.00	0.50		
HD90C2BAA	90C	02/04/2000	SOIL GRID	1.50	2.00		
HD90C3AAA	90C	02/04/2000	SOIL GRID	0.00	0.50		
HD90C3BAA	90C	02/04/2000	SOIL GRID	1.50	2.00		
HD90C4AAA	90C	02/04/2000	SOIL GRID	0.00	0.50		
HD90C4BAA	90C	02/04/2000	SOIL GRID	1.50	2.00		
HD90C5AAA	90C	02/04/2000	SOIL GRID	0.00	0.50		
HD90C5AAD	90C	02/04/2000	SOIL GRID	0.00	0.50		
HD90C5BAA	90C	02/04/2000	SOIL GRID	1.50	2.00		
HD90D1AAA	90D	02/04/2000	SOIL GRID	0.00	0.50		
HD90D1BAA	90D	02/04/2000	SOIL GRID	1.50	2.00		
HD90D2AAA	90D	02/04/2000	SOIL GRID	0.00	0.50		
HD90D2BAA	90D	02/04/2000	SOIL GRID	1.50	2.00		
HD90D3AAA	90D	02/04/2000	SOIL GRID	0.00	0.50		
HD90D3BAA	90D	02/04/2000	SOIL GRID	1.50	2.00		
HD90D4AAA	90D	02/04/2000	SOIL GRID	0.00	0.50		
HD90D4BAA	90D	02/04/2000	SOIL GRID	1.50	2.00		
HD90D5AAA	90D	02/04/2000	SOIL GRID	0.00	0.50		
HD90D5BAA	90D	02/04/2000	SOIL GRID	1.50	2.00		
HD92E1AAA	92E	01/31/2000	SOIL GRID	0.00	0.50		

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

TABLE 2
SAMPLING PROGRESS
1/31/00-2/4/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HD92E1BAA	92E	01/31/2000	SOIL GRID	1.50	2.00		
HD92E2AAA	92E	01/31/2000	SOIL GRID	0.00	0.50		
HD92E2BAA	92E	01/31/2000	SOIL GRID	1.50	2.00		
HD92E3AAA	92E	01/31/2000	SOIL GRID	0.00	0.50		
HD92E3BAA	92E	01/31/2000	SOIL GRID	1.50	2.00		
HD92E3BAD	92E	01/31/2000	SOIL GRID	1.50	2.00		
HD92E4AAA	92E	01/31/2000	SOIL GRID	0.00	0.50		
HD92E4BAA	92E	01/31/2000	SOIL GRID	1.50	2.00		
HD92E5AAA	92E	01/31/2000	SOIL GRID	0.00	0.50		
HD92E5BAA	92E	01/31/2000	SOIL GRID	1.50	2.00		
HD92F1AAA	92F	01/31/2000	SOIL GRID	0.00	0.50		
HD92F1BAA	92F	01/31/2000	SOIL GRID	1.50	2.00		
HD92F2AAA	92F	01/31/2000	SOIL GRID	0.00	0.50		
HD92F2BAA	92F	01/31/2000	SOIL GRID	1.50	2.00		
HD92F2BAD	92F	01/31/2000	SOIL GRID	1.50	2.00		
HD92F3AAA	92F	01/31/2000	SOIL GRID	0.00	0.50		
HD92F3BAA	92F	01/31/2000	SOIL GRID	1.50	2.00		
HD92F4AAA	92F	01/31/2000	SOIL GRID	0.00	0.50		
HD92F4BAA	92F	01/31/2000	SOIL GRID	1.50	2.00		
HD92F5AAA	92F	01/31/2000	SOIL GRID	0.00	0.50		
HD92F5BAA	92F	01/31/2000	SOIL GRID	1.50	2.00		
S85CAA	S85CAA	02/01/2000	SOIL GRID	10.00	12.00		
S85CAD	S85CAA	02/01/2000	SOIL GRID	10.00	12.00		
S85DAA	S85DAA	02/01/2000	SOIL GRID	20.00	22.00		
S85EAA	S85EAA	02/01/2000	SOIL GRID	30.00	32.00		
S85FAA	S85FAA	02/01/2000	SOIL GRID	40.00	42.00		
S85GAA	S85GAA	02/01/2000	SOIL GRID	50.00	52.00		
S85HAA	S85HAA	02/01/2000	SOIL GRID	60.00	62.00		
S85IAA	S85IAA	02/02/2000	SOIL GRID	70.00	72.00		
S85JAA	S85JAA	02/02/2000	SOIL GRID	80.00	82.00		
S85KAA	S85KAA	02/02/2000	SOIL GRID	90.00	92.00		
S85LAA	S85LAA	02/02/2000	SOIL GRID	100.00	102.00		
S85MAA	S85MAA	02/02/2000	SOIL GRID	110.00	112.00		

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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 1/20/00-2/3/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G85MAA	MW-85	02/02/2000	PROFILE	120.00	120.00	2.00	2.00	8330N	3-NITROTOLUENE	NO
G85MAA	MW-85	02/02/2000	PROFILE	120.00	120.00	2.00	2.00	8330N	4-NITROTOLUENE	NO
G85MAA	MW-85	02/02/2000	PROFILE	120.00	120.00	2.00	2.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G85MAA	MW-85	02/02/2000	PROFILE	120.00	120.00	2.00	2.00	8330N	NITROGLYCERIN	NO
G85MAA	MW-85	02/02/2000	PROFILE	120.00	120.00	2.00	2.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G85MBA	MW-85	02/02/2000	PROFILE	130.00	130.00	12.00	12.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G85MBA	MW-85	02/02/2000	PROFILE	130.00	130.00	12.00	12.00	8330N	NITROGLYCERIN	NO
G85MBA	MW-85	02/02/2000	PROFILE	130.00	130.00	12.00	12.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G85MCA	MW-85	02/03/2000	PROFILE	140.00	140.00	22.00	22.00	8330N	1,3,5-TRINITROBENZENE	NO
G85MCA	MW-85	02/03/2000	PROFILE	140.00	140.00	22.00	22.00	8330N	2,6-DINITROTOLUENE	YES
G85MCA	MW-85	02/03/2000	PROFILE	140.00	140.00	22.00	22.00	8330N	3-NITROTOLUENE	YES
G85MCA	MW-85	02/03/2000	PROFILE	140.00	140.00	22.00	22.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G85MDA	MW-85	02/03/2000	PROFILE	150.00	150.00	32.00	32.00	8330N	1,3,5-TRINITROBENZENE	NO
G85MDA	MW-85	02/03/2000	PROFILE	150.00	150.00	32.00	32.00	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
G85MDA	MW-85	02/03/2000	PROFILE	150.00	150.00	32.00	32.00	8330N	3-NITROTOLUENE	YES
G85MDA	MW-85	02/03/2000	PROFILE	150.00	150.00	32.00	32.00	8330N	4-NITROTOLUENE	NO
G85MDA	MW-85	02/03/2000	PROFILE	150.00	150.00	32.00	32.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G85MEA	MW-85	02/03/2000	PROFILE	160.00	160.00	42.00	42.00	8330N	1,3,5-TRINITROBENZENE	NO
G85MFA	MW-85	02/03/2000	PROFILE	170.00	170.00	52.00	52.00	8330N	1,3,5-TRINITROBENZENE	NO
G85MHA	MW-85	02/03/2000	PROFILE	190.00	190.00	72.00	72.00	8330N	1,3,5-TRINITROBENZENE	NO
HDTR81MME	HDTR81MME	01/24/2000	SOIL GRID	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W76M2A	MW-76	01/24/2000	GROUNDWATER	105.00	115.00	35.35	45.35	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W76M2A	MW-76	01/24/2000	GROUNDWATER	105.00	115.00	35.35	45.35	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
W76SSA	MW-76	01/20/2000	GROUNDWATER	85.00	95.00	15.40	25.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W76SSA	MW-76	01/20/2000	GROUNDWATER	85.00	95.00	15.40	25.40	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
W77M2A	MW-77	01/25/2000	GROUNDWATER	120.00	130.00	34.76	44.76	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W77M2A	MW-77	01/25/2000	GROUNDWATER	120.00	130.00	34.76	44.76	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES

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