WEEKLY PROGRESS UPDATE
FOR OCTOBER 18 - OCTOBER 22, 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 for October 18 to October 22, 1999.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of October 22 is summarized in Table 1.

Table 1. Drilling progress as of October 22, 1999

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-48	LRWS-3 far field well	337	236	99-109 131.5-141.5
MW-49b	LRWS-3 far field well	195	124	
MW-56	J Well far field well	275	204	
MW-76	Demo 1 response well	317	247	

bgs = below ground surface
bwt = below water table

Samples collected during the reporting period are summarized in Table 2. Groundwater sampling continued for the second round of supplemental IRP wells, the second round of the base water supply wells, and the first round of the newly installed gun and mortar position wells. Groundwater profile samples were collected from MW-56 and MW-76; locations and drilling status for these wells are indicated in Table 1. Soil samples were collected from a grid at the Armored Personnel Carrier on Turpentine Road.

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

- The status of the action items from last week were discussed:

  FS-12/J-3 map will be ready 1 week from Monday. There was some discussion of whether the data emailed by USGS could be used directly without formatting by Ogden. This would require ArcView GIS software and the reference grid information that was supplied earlier by USGS.

  Guard has received EPA comments on several plans. EPA stated that they have comments for the soil sampling for UXO detonation and Archive Search Report and they will be distributed soon. DEP just submitted their comments on the Steel Lined Pit and they will get RDX Response Plan comments out soon. The schedule for testing the new drilling method, and beginning implementation of the Impact Area Response Plan was discussed. Cost effectiveness still needs to be determined for this method. Ogden will develop cost information and forward to Guard, and evaluate schedule for trial use of the method.

A 3-page handout of the draft milestone Gantt chart was provided for agency review. Ogden stated that the training areas and Phase IIb were not included in the chart. EPA stated that they would review and have comments for next week.

Changes to the Gun and Mortar FSP are still in progress. Ogden stated that the change pages would be ready in several days. Comparison grid soil samples have been collected from GP-16. Ogden stated that when the data from these grids is available early next week there needs to be meeting to discuss these results and finalize the grid arrangement for gun/mortar position soil sampling.

The Guard proposed to meet next Thursday morning with Ogden, Tetra Tech, EPA, and DEP to do a site walk of the J Range and discuss sampling to address DU issue.

The Guard indicated that the fire break work has been planned but has not started. EPA asked about the status of the controlled burn. The Guard stated that there is some confusion on this issue and they will investigate it further.

- The Draft Supplemental UXO Soil Sampling Plan was distributed for review. The Guard indicated that this work would be performed within 72-hrs after the EPA approves the plan.

- The status of the field work was summarized and is as follows:

  The center line particle track well at Demo 1 (MW-76) is on standby awaiting screen intervals. Ogden indicated that the rig might possibly have set up on the location of MW-77 due to a survey error, and this would be straightened out as soon as possible. Later it was determined that the rig was set up on the location directly south of the particle track.

  The soil grid samples at GP-16 have been collected.

  The J Well far field well has been started and is expected it be at bedrock by the end of the week.

  The second boring at MW-49 (LRWS 3 far field wells) is in progress.

  Groundwater sampling is continuing on newly installed wells, round 3 of the Phase I wells, and base water supply wells.

  Soil samples from the APC have been collected.

  EPA stated that IRP discussed Ogden sampling well 03MW0060 during their weekly meeting. Ogden indicated that the well may have been misidentified, and they will work with IRP to obtain correct identity.

- Ogden asked the agencies their opinion of the proposed revised sampling grids for the Mortar Targets. The "Source Areas" soil sampling needs to begin soon, and these locations are also around tanks similar to the Mortar Targets. Both the EPA and DEP agreed to use the new grid as indicated in the Draft Mortar Target FSP, for the "Source Area" tanks. Ogden will send a letter to EPA and DEP stating the change in procedure.

- The Textron information request was discussed. The Guard indicated that they will send information requests in both the ASTM format and the CERCLA 104(e) format. EPA agreed and suggested that they cut the response time from 45 to 30 days. The Guard stated that the information request should be out by November 1.

- The action items from the 9/99 IART meeting were discussed and are as follows:

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

- The Agenda for the 10/22/1999 IART meeting was discussed.

- The Guard discussed several issues related to the schedule for activities next week.

- In response to a question from EPA, Ogden clarified that the site reconnaissance of trenches and other related features did not include a magnetometer survey. This work only included visual avoidance of UXO. There was some discussion regarding the firing point for the 37mm mortars observed in the area northeast of Succonsette Pond. There was also some discussion regarding criteria for when a target is "hit" during mortar fire.

- JPO asked about the results of the KD and U Range investigations. These have been communicated to Jacobs for their evaluation of potential water supplies. The evaluation appears to be dealing with IAGS detections very conservatively, in terms of avoiding areas with detections in soil but not groundwater.

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 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:

- The groundwater sample from 27MW0017A had a detection of 3-nitrotoluene that was not verified with the PDA spectra. This well previously (April 1999) had a verified detection of 2,4-diamino-6-nitrotoluene (2,4-DANT), but the same compound was not detected in this recent sample.

- The groundwater sample from monitoring well MW-82M1 had a detection of PETN that was not verified with the PDA spectra. This was the first sample from this Bourne Far Field monitoring well.

- The groundwater sample from 90WT0013 had detections of 1,3,5-trinitrobenzene and 2-nitrotoluene that were not verified with the PDA spectra. In 1998 this well had RDX and 2,4-DANT detected, but neither compound was identified in this recent sample or in the January 1999 sample.

- The groundwater sample from 90WT0004 had a detection of HMX that was verified with the PDA spectra. This explosive was detected in this well in the January-February 1999 sampling round, but not in the 1998 sampling round.

- Groundwater profile samples from MW-48 (LRWS-3 ZOC) had detections of chloroform (15 intervals) and acetone (2 intervals).

- Groundwater profile samples from MW-56 (J Well ZOC) had detections of chloroform (7 intervals), acetone (2 intervals), toluene (2 intervals), and picric acid (PA; 1 interval). The PA detection was not verified by PDA spectra.

- Groundwater profile samples from MW-76 (Demo 1 downgradient) had detections of nitroglycerin (7 intervals), PETN (7 intervals), RDX (6 intervals), PA (4 intervals), HMX (4 intervals), nitrotoluenes (3 intervals), and 2,4-DNT (1 interval). All but one of the RDX detections, and all HMX detections were verified by PDA spectra.

- Soil samples from grids M, O, and P at GP-16 had detections of various semivolatile organic compounds. These include the propellant-related analytes 2,4-DNT, di-n-butylphthalate, and n-nitrosodiphenylamine.

3. DELIVERABLES SUBMITTED

There were no deliverables submitted during the reporting period.

4. SCHEDULED ACTIONS

Scheduled actions for the week of October 25 include completion of drilling MW-49b (LRWS-3 far field), MW-56 (J Well far field), and MW-76 (demo 1 response well); commence drilling on MW-57 (Sandwich far field) and MW-79 (upgradient demo 1); development and sampling of newly installed wells; and continued ground water sampling of second round of supplemental IRP wells and the second round of the base water supply wells.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

Drilling was started and completed at the first downgradient well between MW-31 and MW-34. This location, MW-76, is located approximately 200 feet south of the modeled groundwater flow path from MW-19. RDX and HMX were detected in profile samples from depths bracketing the flow path, and well screens were installed based on these profile detections. The detections at MW-76 suggest that the width of the groundwater contamination is at least 200 feet in this area. Additional wells will be installed as planned in this area to delineate the groundwater contamination. However, the next well will be installed upgradient of Demo 1 to allow roadbuilding at the downgradient location. UXO clearance was conducted for the road to the upgradient location, and this road was prepared for use.

TABLE 2
SAMPLING PROGRESS
10/18-10/22

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
11MW0001E	FIELDQC	10/21/1999	FIELDQC	0.00	0.00		
90MW0038E	FIELDQC	10/19/1999	FIELDQC	0.00	0.00		
G56DCE	FIELDQC	10/19/1999	FIELDQC	0.00	0.00		
G56DHE	FIELDQC	10/20/1999	FIELDQC	0.00	0.00		
G56DOE	FIELDQC	10/21/1999	FIELDQC	0.00	0.00		
G56DOT	FIELDQC	10/21/1999	FIELDQC	0.00	0.00		
G56GHT	FIELDQC	10/20/1999	FIELDQC	0.00	0.00		
G76MAE	FIELDQC	10/18/1999	FIELDQC	0.00	0.00		
G76MAT	FIELDQC	10/18/1999	FIELDQC	0.00	0.00		
G76MCE	FIELDQC	10/19/1999	FIELDQC	0.00	0.00		
G76MCT	FIELDQC	10/19/1999	FIELDQC	0.00	0.00		
11MW0001	11MW0001	10/21/1999	GROUNDWATER			0.00	10.00
11MW0002	11MW0002	10/21/1999	GROUNDWATER			0.00	10.00
11MW0004	11MW0004	10/21/1999	GROUNDWATER			0.00	10.00
27MW0011A	27MW0011A	10/18/1999	GROUNDWATER			70.00	75.00
90MW0013	90MW0013	10/18/1999	GROUNDWATER			0.00	10.00
90MW0014	90MW0014	10/18/1999	GROUNDWATER			78.00	83.00
90MW0019	90MW0019	10/18/1999	GROUNDWATER			78.00	83.00
90MW0021	90MW0021	10/18/1999	GROUNDWATER			78.00	83.00
90MW0038	90MW0038	10/19/1999	GROUNDWATER			29.00	34.00
90WT0015	90WT0015	10/21/1999	GROUNDWATER			0.00	10.00
TEXTRON-PW2	TEXTRON-PW2	10/18/1999	GROUNDWATER				
W18SSA	MW-18	10/20/1999	GROUNDWATER			0.00	10.00
W64M1A	MW-64	10/19/1999	GROUNDWATER			37.00	47.00
W64M1D	MW-64	10/19/1999	GROUNDWATER			37.00	47.00
W64M2A	MW-64	10/20/1999	GROUNDWATER			8.00	13.00
W64SSA	MW-64	10/19/1999	GROUNDWATER			0.00	5.00
W66M1A	MW-66	10/20/1999	GROUNDWATER			99.00	109.00
W66M2A	MW-66	10/20/1999	GROUNDWATER			11.00	21.00
W66SSA	MW-66	10/20/1999	GROUNDWATER			-3.00	7.00
W68M1A	MW-68	10/20/1999	GROUNDWATER			18.00	28.00
W68SSA	MW-68	10/20/1999	GROUNDWATER			-4.00	6.00
W84SSA	MW-84	10/21/1999	GROUNDWATER			0.00	10.00
WT360A	03MW0060	10/20/1999	GROUNDWATER			35.00	40.00
GAC5620	GAC WATER	10/20/1999	IDW	0.00	0.00		
GAC5621	GAC WATER	10/21/1999	IDW	0.00	0.00		
GAC7119	GAC WATER	10/19/1999	IDW	0.00	0.00		
G56DAA	MW-56	10/19/1999	PROFILE	76.00	81.00	5.00	10.00
G56DBA	MW-56	10/19/1999	PROFILE	85.00	90.00	14.00	19.00
G56DCA	MW-56	10/19/1999	PROFILE	90.00	95.00	19.00	24.00
G56DDA	MW-56	10/19/1999	PROFILE	100.00	105.00	29.00	34.00
G56DDD	MW-56	10/19/1999	PROFILE	100.00	105.00	29.00	34.00
G56DEA	MW-56	10/19/1999	PROFILE	110.00	115.00	39.00	44.00
G56DFA	MW-56	10/19/1999	PROFILE	120.00	125.00	49.00	54.00
G56DGA	MW-56	10/19/1999	PROFILE	130.00	135.00	59.00	64.00
G56DHA	MW-56	10/20/1999	PROFILE	140.00	145.00	69.00	74.00
G56DIA	MW-56	10/20/1999	PROFILE	150.00	155.00	79.00	84.00
G56DJA	MW-56	10/20/1999	PROFILE	160.00	165.00	89.00	94.00

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

TABLE 2
SAMPLING PROGRESS
10/18-10/22

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G56DKA	MW-56	10/20/1999	PROFILE	170.00	175.00	99.00	104.00
G56DLA	MW-56	10/20/1999	PROFILE	180.00	185.00	109.00	114.00
G56DMA	MW-56	10/20/1999	PROFILE	190.00	195.00	119.00	124.00
G56DMD	MW-56	10/20/1999	PROFILE	190.00	195.00	119.00	124.00
G56DNA	MW-56	10/20/1999	PROFILE	200.00	205.00	129.00	134.00
G56DOA	MW-56	10/21/1999	PROFILE	210.00	215.00	139.00	144.00
G56DPA	MW-56	10/21/1999	PROFILE	220.00	225.00	149.00	154.00
G56DQA	MW-56	10/21/1999	PROFILE	230.00	235.00	159.00	164.00
G56DRA	MW-56	10/21/1999	PROFILE	240.00	245.00	169.00	174.00
G56DSA	MW-56	10/21/1999	PROFILE	250.00	255.00	179.00	184.00
G56DTA	MW-56	10/21/1999	PROFILE	260.00	275.00	189.00	204.00
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00
G76MBA	MW-76	10/18/1999	PROFILE	80.00	80.00	10.00	10.00
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00
G76MDA	MW-76	10/19/1999	PROFILE	100.00	100.00	30.00	30.00
G76MEA	MW-76	10/19/1999	PROFILE	110.00	110.00	40.00	40.00
G76MFA	MW-76	10/19/1999	PROFILE	120.00	120.00	50.00	50.00
G76MGA	MW-76	10/19/1999	PROFILE	130.00	130.00	60.00	60.00
G76MHA	MW-76	10/19/1999	PROFILE	140.00	140.00	70.00	70.00
G76MIA	MW-76	10/19/1999	PROFILE	150.00	150.00	80.00	80.00
G76MJA	MW-76	10/19/1999	PROFILE	160.00	160.00	90.00	90.00
G76MKA	MW-76	10/19/1999	PROFILE	170.00	170.00	100.00	100.00
HCAPC1AAA	HCAPC1AAA	10/19/1999	SOIL GRID	0.00	0.25		
HCAPC1AAD	HCAPC1AAD	10/19/1999	SOIL GRID	0.00	0.25		
HCAPC1BAA	HCAPC1BAA	10/19/1999	SOIL GRID	0.25	0.50		
HCAPC1CAA	HCAPC1CAA	10/19/1999	SOIL GRID	0.50	1.00		

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 10/4/99-10/22/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
27MW0017A	27MW0017A	10/15/1999	GROUNDWATER			65.00	70.00	8330N	3-NITROTOLUENE	NO
W82M1A	MW-82	10/13/1999	GROUNDWATER			75.00	85.00	8330N	PENTAERYTHRITOL TETRANITR	NO
WF13XA	90WT0013	10/11/1999	GROUNDWATER			2.00	12.00	8330N	1,3,5-TRINITROBENZENE	NO
WF13XA	90WT0013	10/11/1999	GROUNDWATER			2.00	12.00	8330N	2-NITROTOLUENE	NO
WT04XA	90WT0004	10/11/1999	GROUNDWATER			3.00	13.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
G48DIA	MW-48	10/12/1999	PROFILE	180.00	185.00	78.50	83.50	OC21V	CHLOROFORM	
G48DJA	MW-48	10/12/1999	PROFILE	190.00	195.00	88.50	93.50	OC21V	CHLOROFORM	
G48DMA	MW-48	10/13/1999	PROFILE	220.00	225.00	118.50	123.50	OC21V	CHLOROFORM	
G48DNA	MW-48	10/13/1999	PROFILE	230.00	235.00	128.50	133.50	OC21V	CHLOROFORM	
G48DOA	MW-48	10/13/1999	PROFILE	240.00	245.00	138.50	143.50	OC21V	CHLOROFORM	
G48DPA	MW-48	10/13/1999	PROFILE	250.00	255.00	148.50	153.50	OC21V	CHLOROFORM	
G48DQA	MW-48	10/13/1999	PROFILE	260.00	265.00	158.50	163.50	OC21V	CHLOROFORM	
G48DRA	MW-48	10/13/1999	PROFILE	270.00	275.00	168.50	173.50	OC21V	CHLOROFORM	
G48DSA	MW-48	10/14/1999	PROFILE	280.00	285.00	178.50	183.50	OC21V	CHLOROFORM	
G48DSD	MW-48	10/14/1999	PROFILE	280.00	285.00	178.50	183.50	OC21V	ACETONE	
G48DSD	MW-48	10/14/1999	PROFILE	280.00	285.00	178.50	183.50	OC21V	CHLOROFORM	
G48DTA	MW-48	10/14/1999	PROFILE	290.00	295.00	188.50	193.50	OC21V	ACETONE	
G48DTA	MW-48	10/14/1999	PROFILE	290.00	295.00	188.50	193.50	OC21V	CHLOROFORM	
G48DUA	MW-48	10/14/1999	PROFILE	300.00	305.00	198.50	203.50	OC21V	CHLOROFORM	
G48DVA	MW-48	10/14/1999	PROFILE	310.00	315.00	208.50	213.50	OC21V	CHLOROFORM	
G48DWA	MW-48	10/14/1999	PROFILE	320.00	325.00	218.50	223.50	OC21V	CHLOROFORM	
G48DXA	MW-48	10/15/1999	PROFILE	330.00	335.00	228.50	233.50	OC21V	CHLOROFORM	
G56DAA	MW-56	10/19/1999	PROFILE	76.00	81.00	5.00	10.00	8330N	PICRIC ACID	NO
G56DAA	MW-56	10/19/1999	PROFILE	76.00	81.00	5.00	10.00	OC21V	ACETONE	
G56DAA	MW-56	10/19/1999	PROFILE	76.00	81.00	5.00	10.00	OC21V	CHLOROFORM	
G56DBA	MW-56	10/19/1999	PROFILE	85.00	90.00	14.00	19.00	OC21V	ACETONE	
G56DBA	MW-56	10/19/1999	PROFILE	85.00	90.00	14.00	19.00	OC21V	CHLOROFORM	
G56DCA	MW-56	10/19/1999	PROFILE	90.00	95.00	19.00	24.00	OC21V	CHLOROFORM	
G56DDA	MW-56	10/19/1999	PROFILE	100.00	105.00	29.00	34.00	OC21V	CHLOROFORM	
G56DEA	MW-56	10/19/1999	PROFILE	110.00	115.00	39.00	44.00	OC21V	CHLOROFORM	
G56DEA	MW-56	10/19/1999	PROFILE	110.00	115.00	39.00	44.00	OC21V	TOLUENE	
G56DFA	MW-56	10/19/1999	PROFILE	120.00	125.00	49.00	54.00	OC21V	CHLOROFORM	
G56DGA	MW-56	10/19/1999	PROFILE	130.00	135.00	59.00	64.00	OC21V	CHLOROFORM	

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

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 10/4/99-10/22/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G56DGA	MW-56	10/19/1999	PROFILE	130.00	135.00	59.00	64.00	OC21V	TOLUENE	
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	2,4-DINITROTOLUENE	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	2-NITROTOLUENE	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	3-NITROTOLUENE	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	4-NITROTOLUENE	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	NITROGLYCERIN	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G76MAA	MW-76	10/18/1999	PROFILE	75.00	75.00	5.00	5.00	8330N	PICRIC ACID	NO
G76MBA	MW-76	10/18/1999	PROFILE	80.00	80.00	10.00	10.00	8330N	NITROGLYCERIN	NO
G76MBA	MW-76	10/18/1999	PROFILE	80.00	80.00	10.00	10.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G76MBA	MW-76	10/18/1999	PROFILE	80.00	80.00	10.00	10.00	8330N	PICRIC ACID	NO
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	3-NITROTOLUENE	NO
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	NITROGLYCERIN	NO
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G76MCA	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	PICRIC ACID	NO
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	3-NITROTOLUENE	YES
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	NITROGLYCERIN	NO
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G76MCD	MW-76	10/19/1999	PROFILE	90.00	90.00	20.00	20.00	8330N	PICRIC ACID	NO
G76MDA	MW-76	10/19/1999	PROFILE	100.00	100.00	30.00	30.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G76MDA	MW-76	10/19/1999	PROFILE	100.00	100.00	30.00	30.00	8330N	NITROGLYCERIN	NO
G76MDA	MW-76	10/19/1999	PROFILE	100.00	100.00	30.00	30.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
G76MDA	MW-76	10/19/1999	PROFILE	100.00	100.00	30.00	30.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G76MEA	MW-76	10/19/1999	PROFILE	110.00	110.00	40.00	40.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G76MEA	MW-76	10/19/1999	PROFILE	110.00	110.00	40.00	40.00	8330N	NITROGLYCERIN	NO
G76MEA	MW-76	10/19/1999	PROFILE	110.00	110.00	40.00	40.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITF	YES
G76MEA	MW-76	10/19/1999	PROFILE	110.00	110.00	40.00	40.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G76MFA	MW-76	10/19/1999	PROFILE	120.00	120.00	50.00	50.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES

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PDA/NO = Photo Diode Array, Detect Not Confirmed

TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 10/4/99-10/22/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G76MFA	MW-76	10/19/1999	PROFILE	120.00	120.00	50.00	50.00	8330N	NITROGLYCERIN	NO
G76MKA	MW-76	10/19/1999	PROFILE	170.00	170.00	100.00	100.00	8330N	PENTAERYTHRITOL TETRANITR	NO
HCGHM1AAA	HCGHM1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HCGHM1AAA	HCGHM1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HCGHM1BAA	HCGHM1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HCGHO1AAA	HCGHO1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	2,4-DINITROTOLUENE	
HCGHO1AAA	HCGHO1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HCGHO1AAA	HCGHO1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	DI-N-BUTYL PHTHALATE	
HCGHO1AAA	HCGHO1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HCGHO1BAA	HCGHO1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HCGHP1AAA	HCGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	2,4-DINITROTOLUENE	
HCGHP1AAA	HCGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	DI-N-BUTYL PHTHALATE	
HCGHP1AAA	HCGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	N-NITROSODIPHENYLAMINE	
HCGHP1AAA	HCGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HCGHP1BAA	HCGHP1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHO1BAA	HDGHO1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HDGHO1BAA	HDGHO1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHO2AAA	HDGHO2AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HDGHO2AAA	HDGHO2AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHO2BAA	HDGHO2BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHO3AAA	HDGHO3AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHO3BAA	HDGHO3BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHO4BAA	HDGHO4BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HDGHO4BAA	HDGHO4BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHO5AAA	HDGHO5AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HDGHO5AAA	HDGHO5AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHO5AAD	HDGHO5AA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	DI-N-BUTYL PHTHALATE	
HDGHO5AAD	HDGHO5AA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHO5BAA	HDGHO5BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHP1AAA	HDGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	2,4-DINITROTOLUENE	
HDGHP1AAA	HDGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	DI-N-BUTYL PHTHALATE	
HDGHP1AAA	HDGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	N-NITROSODIPHENYLAMINE	
HDGHP1AAA	HDGHP1AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 10/4/99-10/22/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
HDGHP1BAA	HDGHP1BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHP2AAA	HDGHP2AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	BIS(2-ETHYLHEXYL) PHTHALATE	
HDGHP2BAA	HDGHP2BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	2,4-DINITROTOLUENE	
HDGHP2BAA	HDGHP2BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	DI-N-BUTYL PHTHALATE	
HDGHP2BAA	HDGHP2BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	N-NITROSODIPHENYLAMINE	
HDGHP2BAA	HDGHP2BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHP3AAA	HDGHP3AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHP3BAA	HDGHP3BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	
HDGHP4AAA	HDGHP4AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHP5AAA	HDGHP5AAA	10/15/1999	SOIL GRID	0.00	0.50			OM31B	PHENOL	
HDGHP5BAA	HDGHP5BAA	10/15/1999	SOIL GRID	1.50	2.00			OM31B	PHENOL	

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PDA/NO = Photo Diode Array, Detect Not Confirmed