

**WEEKLY PROGRESS UPDATE
FOR SEPTEMBER 20-SEPTEMBER 24, 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 September 20 to September 24, 1999.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of September 24 is summarized in Table 1.

Table 1. Drilling progress as of September 24, 1999				
Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-65	Gun and Mortar well (GP-14)	275	153	116-126 129-134 210-220
MW-69	Gun and Mortar well (MP-3)	270	157	
MW-67	Gun and Mortar well (GP-20)	250	94	
bgs = below ground surface bwt = below water table				

Samples collected during the reporting period are summarized in Table 2. Groundwater sampling continued for round 3 of the Phase I monitoring wells and for the first round of newly installed wells. Groundwater profile samples were collected from MW-67 and MW-69; locations and drilling status for these wells are indicated in Table 1.

The Guard, EPA, and MADEP had a meeting on September 23 to discuss technical issues, including the following:

- There was a discussion of the schedule and equipment for installing wells over the next few months, which include gun/mortar position wells, Far Field monitoring wells (which include the J Well cluster, the Sandwich ZOC cluster, and the two clusters originally located in the ZOC for LRWS-3), and the Demo 1 response plan wells. After completing the current gun/mortar position wells, one of the two Barber rigs will be used to drill Demo 1 wells, and the other will be exchanged for a sonic rig to drill the Far Field locations. It was agreed that the Far Field wells will be installed by 11/30/99, providing locations can be finalized in the next few weeks. The Guard will provide a map of the proposed well locations, and a letter specifying the proposed depths and rationale for profiling.
- Detection tables for the supply well samples were not yet available. Ogden is formatting the data to allow separation of these results from other monitoring wells. It is expected these will be provided at next week's meeting. EPA asked that the results also be provided to the operators of the supply wells.
- The TNT test results provided by EPA at the 9/16/99 meeting were copied and distributed. It was agreed that the results indicate a possible detection of TNT at LRWS2-3 from a sample collected and tested by others in 1996. The validation status for the result is unknown, but will be requested from AFCEE. Two samples tested under the IAGS, from 1997 and 1999, had no detections of explosive

compounds. EPA requested that the 1996 detection be added to the public meeting detection maps, which will become cumulative as indicated in last week's technical meeting. A footnote can be added to indicate the origin of this data.

- A copy of the 2/17/99 letter describing TIC results was provided. It was not possible to locate EPA's subsequent comments on the letter, prior to the technical meeting. These comments, dated 4/15/99, will be provided to the IART, along with a copy of the 2/17/99 letter. The letter and comments will be discussed at next week's technical meeting.
- EPA's comments of 9/20/99 on the Phase 2a Gun/Mortar FSP were discussed. Ogden asked why EPA requested that dioxins/furans be added to the analyte list. EPA indicated that these compounds were not likely to be present, but that the agency wanted to test for them for the sake of completeness. Ogden indicated that the current lab was not set up for these analytes. Therefore, it might be several weeks before a suitable lab could be identified and accepted by the agencies. There would likely be additional lead time required by the laboratory, depending on their backlog from other projects. The schedule to begin the GP-16 grid confirmation sampling was discussed. EPA indicated that this sampling for explosive analytes should go ahead in parallel with identification of a lab for the dioxin samples. The dioxin sampling could be caught up with the sampling for other analytes as soon as the lab was on board.
- Regarding other EPA comments of 9/20/99, it was agreed to add the Former F Range firing positions to the FSP. A map of proposed sampling locations at Former F Range will be provided to the agencies for approval, prior to finalizing the document. Also, a substitute for the GP-16 location should be proposed for grid confirmation sampling, since this location has been graded since the Phase I sampling. The substitute could be another Phase I location that had propellant detections (if ungraded), or a high-use position based on the gun/mortar firing and bag burning data. The Guard will coordinate with AFCEE on access for Old H Range, which needs to be sampled in October to stay on schedule and in keeping with EPA's priorities.
- There was a discussion of scheduling issues from the Guard's letter of 9/16/99. It was agreed that the current four Far Field well clusters (see 1st bullet above) could be installed by 11/30/99 based on obtaining a second sonic rig by 10/18/99 and drilling the LRWS-3 locations first, since these would not be safe to drill during hunting season (Alleged Violation #1). EPA will probably not finalize the schedule for Future Deadlines #1 and #2 until the proposal is received from the Guard on which wells to sample, expected 10/1/99. It was agreed that round 3 sampling of the new wells can be completed by 12/2/99 (Future Deadline #4). EPA may decide not to specify the start of the Training Area investigations at this time (Future Deadline #15), although it is considering a start date of 1/6/00. It was agreed that a completion date of 3/5/00 was feasible for soil sampling at the gun and mortar positions (Future Deadline #18), based on a start date of October 1999 and a 5-month duration. For Future Deadlines #21 and #22, EPA asked the Guard to consider a 4-week period for scoping and mobilization of these activities (trenches and mortar target investigations).
- Particle track results for DP-8 and -9 (near J-3 Wetland), the Sandwich supply wells, and regional and subregional model runs for the MW-19 particle track were handed out and discussed. The USGS indicated they were still tweaking the subregional model output. The EPA indicated that the letter approving the Demo 1 work was contingent upon receiving the comparison between the regional and subregional particle tracks for Demo 1. The EPA wanted to know when the bugs will be worked out of the model but the USGS did not provide a firm date. EPA requested PDF files for all of the particle tracks prior to next Thursdays meeting. EPA requested that the Guard have the USGS run reverse particle tracks from MW-18M1 (this is the TCE detect), and have results by next Thursdays meeting.

- EPA requested a schedule by Monday for the start of drilling at Demo 1.
- EPA requested a description or SOW for Ogden's contract with US Environmental.
- EPA requested that a schedule be prepared for next Thursday's meeting indicating major milestones.
- An agenda item for next week is the development of a primary and secondary schedule of milestones.
- The Guard mentioned a letter from the Dept. of Fish & Wildlife that discussed hunting schedules. The Guard handed out a response in the meeting.
- The Guard handed out a letter to MADEP reporting the reportable releases under the MCP.

2. SUMMARY OF DATA RECEIVED

Preliminary non-validated detections of explosive and volatile organic compounds (VOCs) are summarized in Table 3 for samples collected during the preceding three-week period. The status of the explosive detections with respect to confirmation using Photo Diode Array (PDA) spectra is also indicated in this table. Where the PDA status is "YES" in Table 3, the detected compound has been confirmed to be present in the sample. Where the status is "NO", the identification of an explosive has been confirmed to be a false positive. Where the status is blank, PDA has not yet been used to evaluate the detection, or PDA is not applicable because the analyte is a VOC.

Some of the detections in Table 3 were discussed in previous weekly progress reports. The range of sample dates included in Table 3 overlaps from week-to-week due to the method of reporting and extracting these data. New detections in Table 3 that were not discussed in previous reports include:

- Groundwater samples from MW-23M1 and MW-25S had detections of RDX, which were confirmed by PDA spectra. Groundwater samples from previous rounds of sampling of these wells had similar detections.
- The groundwater sample from MW-30S had a detection of HMX, which was confirmed by PDA spectra. Previous rounds of groundwater samples from this well had similar detections.
- The groundwater sample from MW-31M had detections of RDX, HMX, and 4-amino-2,6-dinitrotoluene, which were all confirmed by PDA spectra. These detections were similar to those of previous rounds of sampling.
- The groundwater samples from MW-31S had detections of RDX, HMX, TNT, 2-amino-4,6-dinitrotoluene, and 4-amino-2,6-dinitrotoluene, which were confirmed by PDA spectra. All these detections were similar to those of previous rounds of sampling with the exception of TNT, which was detected for the first time.
- The groundwater sample from MW-73S has detections of RDX, HMX, and 4-amino-2,6-dinitrotoluene, which were all confirmed with the PDA spectra. These detections were similar to previous rounds of groundwater sampling.
- Profile results from MW-67 (GP-20) had detections of 2,6-dinitrotoluene (3 intervals), 2-nitrotoluene (1 interval), 3-nitrotoluene (8 intervals), 4-nitrotoluene (5 intervals), nitroglycerin (8 intervals), PETN (6 intervals), picric acid (8 intervals), acetone (8 intervals), chloroethane (1 interval), chloroform (2 intervals), chloromethane (1 interval), MEK (8 intervals). The three

profile detections of 2,6-DNT were confirmed by PDA spectra; none of the other explosive detections were confirmed.

- Profile results from MW-69 (MP-3) had detections of acetone (10 intervals), chloromethane (3 intervals), MEK (10 intervals), MIBK (3 intervals), 2-hexanone (4 intervals), benzene (1 interval), chloroethane (2 intervals), toluene (1 interval), carbon disulfide (1 interval), 2-nitrotoluene (5 intervals), 3-nitrotoluene (7 intervals), 4-nitrotoluene (7 intervals), nitroglycerin (4 intervals), PETN (6 intervals), picric acid (9 intervals), nitrobenzene (1 interval), 2,6-dinitrotoluene (1 interval), RDX (1 interval), and 1,3-dinitrobenzene (1 interval). PDA spectra did not confirm any of the explosive detections.

3. DELIVERABLES SUBMITTED

Weekly Progress Update for September 6-10, 1999

9/24/99

4. SCHEDULED ACTIONS

Scheduled actions for the week of September 27 include completion of drilling at MW-69 (MP-3); continue drilling on MW-71 (MP-7) and MW-67 (GP-20); commence drilling of MW-70 (MP-4); development and sampling of newly installed wells; and continued ground water sampling of round 3 of the Phase I monitoring wells and newly installed wells. Also, demolition of UXO impeding access to the steel-lined pit is expected, and road building for drilling at the pit will be completed when UXO have been removed.

TABLE 2
 SAMPLING PROGRESS
 9/20-9/24

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G67DAE	FIELDQC	09/22/1999	FIELDQC	0.00	0.00		
G67DAT	FIELDQC	09/22/1999	FIELDQC	0.00	0.00		
G67DGT	FIELDQC	09/24/1999	FIELDQC	0.00	0.00		
G67GDE	FIELDQC	09/24/1999	FIELDQC	0.00	0.00		
G69DEE	FIELDQC	09/20/1999	FIELDQC	0.00	0.00		
G69DET	FIELDQC	09/20/1999	FIELDQC	0.00	0.00		
G69DJT	FIELDQC	09/21/1999	FIELDQC	0.00	0.00		
G69DME	FIELDQC	09/23/1999	FIELDQC	0.00	0.00		
G69DMT	FIELDQC	09/23/1999	FIELDQC	0.00	0.00		
W9506E	FIELDQC	09/23/1999	FIELDQC	0.00	0.00		
W9515E	FIELDQC	09/24/1999	FIELDQC	0.00	0.00		
403600J-01G	403600J-01G	09/23/1999	GROUNDWATER	0.00	0.00		
W22SSA	MW-22	09/20/1999	GROUNDWATER			0.00	10.00
W40M1A	MW-40	09/21/1999	GROUNDWATER			110.00	120.00
W40M1D	MW-40	09/21/1999	GROUNDWATER			110.00	120.00
W40SSA	MW-40	09/21/1999	GROUNDWATER			0.00	10.00
W44M1A	MW-44	09/20/1999	GROUNDWATER			0.00	10.00
W44M2A	MW-44	09/20/1999	GROUNDWATER			15.00	25.00
W44SSA	MW-44	09/21/1999	GROUNDWATER			55.00	65.00
W62SSA	MW-62	09/20/1999	GROUNDWATER			98.00	108.00
W63DDA	MW-63	09/22/1999	GROUNDWATER			221.00	226.00
W63M1A	MW-63	09/22/1999	GROUNDWATER			90.00	100.00
W63M2A	MW-63	09/22/1999	GROUNDWATER			60.00	70.00
W63M3A	MW-63	09/21/1999	GROUNDWATER			28.00	38.00
W63SSA	MW-63	09/21/1999	GROUNDWATER			0.00	10.00
W80DDA	MW-80	09/22/1999	GROUNDWATER			112.00	122.00
W80M1A	MW-80	09/22/1999	GROUNDWATER			84.00	94.00
W80M3A	MW-80	09/23/1999	GROUNDWATER			24.00	34.00
W80SSA	MW-80	09/23/1999	GROUNDWATER			0.00	10.00
W9506A	W9506A	09/23/1999	GROUNDWATER			93.00	103.00
W9515A	W9515A	09/24/1999	GROUNDWATER			79.00	89.00
W9701A	W9701A	09/23/1999	GROUNDWATER			62.00	72.00
W9702A	W9702A	09/24/1999	GROUNDWATER			53.00	63.00
W9703A	W9703A	09/24/1999	GROUNDWATER				
DW6422	GAC WATER	09/22/1999	IDW	0.00	0.00		
DW6822	GAC WATER	09/22/1999	IDW	0.00	0.00		
DW6924	GAC WATER	09/24/1999	IDW	0.00	0.00		
DW8221	GAC WATER	09/21/1999	IDW	0.00	0.00		
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30
G67DBA	MW-67	09/22/1999	PROFILE	178.00	178.00	22.30	22.30
G67DCA	MW-67	09/22/1999	PROFILE	188.00	188.00	32.30	32.30
G67DDA	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30
G67DDD	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30
G67DEA	MW-67	09/23/1999	PROFILE	208.00	208.00	52.30	52.30
G67DFA	MW-67	09/23/1999	PROFILE	218.00	218.00	62.30	62.30
G67DGA	MW-67	09/24/1999	PROFILE	228.00	228.00	72.30	72.30
G67DHA	MW-67	09/24/1999	PROFILE	238.00	238.00	82.30	82.30
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00

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
 9/20-9/24

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00
G69DHA	MW-69	09/20/1999	PROFILE	190.00	190.00	77.00	77.00
G69DIA	MW-69	09/20/1999	PROFILE	200.00	200.00	87.00	87.00
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00
G69DLA	MW-69	09/22/1999	PROFILE	230.00	230.00	117.00	117.00
G69DMA	MW-69	09/23/1999	PROFILE	240.00	240.00	127.00	127.00
G69DNA	MW-69	09/23/1999	PROFILE	250.00	250.00	137.00	137.00
G69DOA	MW-69	09/23/1999	PROFILE	260.00	260.00	147.00	147.00
G69DPA	MW-69	09/23/1999	PROFILE	270.00	270.00	157.00	157.00

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 9/06/99-9/24/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W23M1A	MW-23	09/13/1999	GROUNDWATER			99.00	109.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W25SSA	MW-25	09/14/1999	GROUNDWATER			0.00	10.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W30SSA	MW-30	09/15/1999	GROUNDWATER			0.00	10.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W31MMA	MW-31	09/15/1999	GROUNDWATER			113.00	123.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W31MMA	MW-31	09/15/1999	GROUNDWATER			113.00	123.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W31MMA	MW-31	09/15/1999	GROUNDWATER			113.00	123.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W31SSA	MW-31	09/15/1999	GROUNDWATER			98.00	103.00	8330N	2,4,6-TRINITROTOLUENE	YES
W31SSA	MW-31	09/15/1999	GROUNDWATER			98.00	103.00	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
W31SSA	MW-31	09/15/1999	GROUNDWATER			98.00	103.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W31SSA	MW-31	09/15/1999	GROUNDWATER			98.00	103.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W31SSA	MW-31	09/15/1999	GROUNDWATER			98.00	103.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W73SSA	MW-73	09/16/1999	GROUNDWATER			0.00	10.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W73SSA	MW-73	09/16/1999	GROUNDWATER			0.00	10.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W73SSA	MW-73	09/16/1999	GROUNDWATER			0.00	10.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	8330N	2,6-DINITROTOLUENE	YES
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	8330N	2-NITROTOLUENE	NO
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	8330N	3-NITROTOLUENE	NO
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	8330N	4-NITROTOLUENE	NO
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	8330N	NITROGLYCERIN	NO
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	8330N	PICRIC ACID	NO
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	OC21V	ACETONE	
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	OC21V	CHLOROETHANE	
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	OC21V	CHLOROFORM	
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	OC21V	CHLOROMETHANE	
G67DAA	MW-67	09/22/1999	PROFILE	168.00	168.00	12.30	12.30	OC21V	METHYL ETHYL KETONE (2-BUT,	
G67DBA	MW-67	09/22/1999	PROFILE	178.00	178.00	22.30	22.30	8330N	2,6-DINITROTOLUENE	YES
G67DBA	MW-67	09/22/1999	PROFILE	178.00	178.00	22.30	22.30	8330N	3-NITROTOLUENE	NO
G67DBA	MW-67	09/22/1999	PROFILE	178.00	178.00	22.30	22.30	8330N	4-NITROTOLUENE	NO
G67DBA	MW-67	09/22/1999	PROFILE	178.00	178.00	22.30	22.30	8330N	PICRIC ACID	NO
G67DBA	MW-67	09/22/1999	PROFILE	178.00	178.00	22.30	22.30	8330N	NITROGLYCERIN	NO
G67DBA	MW-67	09/22/1999	PROFILE	178.00	178.00	22.30	22.30	OC21V	ACETONE	
G67DBA	MW-67	09/22/1999	PROFILE	178.00	178.00	22.30	22.30	OC21V	CHLOROFORM	
G67DBA	MW-67	09/22/1999	PROFILE	178.00	178.00	22.30	22.30	OC21V	METHYL ETHYL KETONE (2-BUT,	

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 9/06/99-9/24/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G67DCA	MW-67	09/22/1999	PROFILE	188.00	188.00	32.30	32.30	8330N	2,6-DINITROTOLUENE	YES
G67DCA	MW-67	09/22/1999	PROFILE	188.00	188.00	32.30	32.30	8330N	3-NITROTOLUENE	NO
G67DCA	MW-67	09/22/1999	PROFILE	188.00	188.00	32.30	32.30	8330N	4-NITROTOLUENE	NO
G67DCA	MW-67	09/22/1999	PROFILE	188.00	188.00	32.30	32.30	8330N	NITROGLYCERIN	NO
G67DCA	MW-67	09/22/1999	PROFILE	188.00	188.00	32.30	32.30	8330N	PENTAERYTHRITOL TETRANITR	NO
G67DCA	MW-67	09/22/1999	PROFILE	188.00	188.00	32.30	32.30	8330N	PICRIC ACID	NO
G67DCA	MW-67	09/22/1999	PROFILE	188.00	188.00	32.30	32.30	OC21V	ACETONE	
G67DCA	MW-67	09/22/1999	PROFILE	188.00	188.00	32.30	32.30	OC21V	METHYL ETHYL KETONE (2-BUT	
G67DDA	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30	8330N	3-NITROTOLUENE	NO
G67DDA	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30	8330N	NITROGLYCERIN	NO
G67DDA	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30	8330N	PENTAERYTHRITOL TETRANITR	NO
G67DDA	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30	8330N	PICRIC ACID	NO
G67DDA	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30	OC21V	ACETONE	
G67DDA	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30	OC21V	METHYL ETHYL KETONE (2-BUT	
G67DDD	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30	8330N	3-NITROTOLUENE	NO
G67DDD	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30	8330N	NITROGLYCERIN	NO
G67DDD	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30	8330N	PENTAERYTHRITOL TETRANITR	NO
G67DDD	MW-67	09/23/1999	PROFILE	198.00	198.00	42.30	42.30	8330N	PICRIC ACID	NO
G67DEA	MW-67	09/23/1999	PROFILE	208.00	208.00	52.30	52.30	8330N	3-NITROTOLUENE	NO
G67DEA	MW-67	09/23/1999	PROFILE	208.00	208.00	52.30	52.30	8330N	4-NITROTOLUENE	NO
G67DEA	MW-67	09/23/1999	PROFILE	208.00	208.00	52.30	52.30	8330N	NITROGLYCERIN	NO
G67DEA	MW-67	09/23/1999	PROFILE	208.00	208.00	52.30	52.30	8330N	PENTAERYTHRITOL TETRANITR	NO
G67DEA	MW-67	09/23/1999	PROFILE	208.00	208.00	52.30	52.30	8330N	PICRIC ACID	NO
G67DEA	MW-67	09/23/1999	PROFILE	208.00	208.00	52.30	52.30	OC21V	ACETONE	
G67DEA	MW-67	09/23/1999	PROFILE	208.00	208.00	52.30	52.30	OC21V	METHYL ETHYL KETONE (2-BUT	
G67DFA	MW-67	09/23/1999	PROFILE	218.00	218.00	62.30	62.30	8330N	NITROGLYCERIN	NO
G67DFA	MW-67	09/23/1999	PROFILE	218.00	218.00	62.30	62.30	8330N	PENTAERYTHRITOL TETRANITR	NO
G67DFA	MW-67	09/23/1999	PROFILE	218.00	218.00	62.30	62.30	OC21V	ACETONE	
G67DFA	MW-67	09/23/1999	PROFILE	218.00	218.00	62.30	62.30	OC21V	METHYL ETHYL KETONE (2-BUT	
G67DGA	MW-67	09/24/1999	PROFILE	228.00	228.00	72.30	72.30	8330N	3-NITROTOLUENE	NO
G67DGA	MW-67	09/24/1999	PROFILE	228.00	228.00	72.30	72.30	8330N	4-NITROTOLUENE	NO
G67DGA	MW-67	09/24/1999	PROFILE	228.00	228.00	72.30	72.30	8330N	NITROGLYCERIN	NO
G67DGA	MW-67	09/24/1999	PROFILE	228.00	228.00	72.30	72.30	8330N	PICRIC ACID	NO

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 9/06/99-9/24/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G67DGA	MW-67	09/24/1999	PROFILE	228.00	228.00	72.30	72.30	OC21V	ACETONE	
G67DGA	MW-67	09/24/1999	PROFILE	228.00	228.00	72.30	72.30	OC21V	METHYL ETHYL KETONE (2-BUT	
G67DHA	MW-67	09/24/1999	PROFILE	238.00	238.00	82.30	82.30	8330N	3-NITROTOLUENE	NO
G67DHA	MW-67	09/24/1999	PROFILE	238.00	238.00	82.30	82.30	8330N	NITROGLYCERIN	NO
G67DHA	MW-67	09/24/1999	PROFILE	238.00	238.00	82.30	82.30	8330N	PENTAERYTHRITOL TETRANITR	NO
G67DHA	MW-67	09/24/1999	PROFILE	238.00	238.00	82.30	82.30	8330N	PICRIC ACID	NO
G67DHA	MW-67	09/24/1999	PROFILE	238.00	238.00	82.30	82.30	OC21V	ACETONE	
G67DHA	MW-67	09/24/1999	PROFILE	238.00	238.00	82.30	82.30	OC21V	METHYL ETHYL KETONE (2-BUT	
G69DAA	MW-69	09/17/1999	PROFILE	120.00	120.00	7.00	7.00	8330N	2-NITROTOLUENE	NO
G69DAA	MW-69	09/17/1999	PROFILE	120.00	120.00	7.00	7.00	8330N	3-NITROTOLUENE	NO
G69DAA	MW-69	09/17/1999	PROFILE	120.00	120.00	7.00	7.00	8330N	4-NITROTOLUENE	NO
G69DAA	MW-69	09/17/1999	PROFILE	120.00	120.00	7.00	7.00	8330N	NITROGLYCERIN	NO
G69DAA	MW-69	09/17/1999	PROFILE	120.00	120.00	7.00	7.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G69DAA	MW-69	09/17/1999	PROFILE	120.00	120.00	7.00	7.00	8330N	PICRIC ACID	NO
G69DBA	MW-69	09/17/1999	PROFILE	130.00	130.00	17.00	17.00	8330N	3-NITROTOLUENE	NO
G69DBA	MW-69	09/17/1999	PROFILE	130.00	130.00	17.00	17.00	8330N	4-NITROTOLUENE	NO
G69DBA	MW-69	09/17/1999	PROFILE	130.00	130.00	17.00	17.00	8330N	PICRIC ACID	NO
G69DCA	MW-69	09/17/1999	PROFILE	140.00	140.00	27.00	27.00	8330N	3-NITROTOLUENE	NO
G69DCA	MW-69	09/17/1999	PROFILE	140.00	140.00	27.00	27.00	8330N	4-NITROTOLUENE	NO
G69DCA	MW-69	09/17/1999	PROFILE	140.00	140.00	27.00	27.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G69DCA	MW-69	09/17/1999	PROFILE	140.00	140.00	27.00	27.00	8330N	PICRIC ACID	NO
G69DDA	MW-69	09/17/1999	PROFILE	150.00	150.00	37.00	37.00	8330N	PICRIC ACID	NO
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00	8330N	2-NITROTOLUENE	NO
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00	8330N	3-NITROTOLUENE	NO
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00	8330N	4-NITROTOLUENE	NO
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00	8330N	NITROBENZENE	NO
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00	8330N	NITROGLYCERIN	NO
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00	8330N	PICRIC ACID	NO
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00	OC21V	ACETONE	
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00	OC21V	CHLOROMETHANE	
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00	OC21V	METHYL ETHYL KETONE (2-BUT	
G69DEA	MW-69	09/20/1999	PROFILE	160.00	160.00	47.00	47.00	OC21V	METHYL ISOBUTYL KETONE (4-N	
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	8330N	2-NITROTOLUENE	NO

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 9/06/99-9/24/99

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	8330N	3-NITROTOLUENE	NO
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	8330N	4-NITROTOLUENE	NO
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	8330N	NITROGLYCERIN	NO
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	8330N	PICRIC ACID	NO
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	OC21V	2-HEXANONE	
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	OC21V	ACETONE	
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	OC21V	BENZENE	
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	OC21V	CHLOROETHANE	
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	OC21V	CHLOROMETHANE	
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	OC21V	METHYL ETHYL KETONE (2-BUT	
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	OC21V	METHYL ISOBUTYL KETONE (4-M	
G69DGA	MW-69	09/20/1999	PROFILE	180.00	180.00	67.00	67.00	OC21V	TOLUENE	
G69DHA	MW-69	09/20/1999	PROFILE	190.00	190.00	77.00	77.00	8330N	NITROGLYCERIN	NO
G69DHA	MW-69	09/20/1999	PROFILE	190.00	190.00	77.00	77.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G69DHA	MW-69	09/20/1999	PROFILE	190.00	190.00	77.00	77.00	8330N	PICRIC ACID	NO
G69DHA	MW-69	09/20/1999	PROFILE	190.00	190.00	77.00	77.00	OC21V	2-HEXANONE	
G69DHA	MW-69	09/20/1999	PROFILE	190.00	190.00	77.00	77.00	OC21V	ACETONE	
G69DHA	MW-69	09/20/1999	PROFILE	190.00	190.00	77.00	77.00	OC21V	METHYL ETHYL KETONE (2-BUT	
G69DHA	MW-69	09/20/1999	PROFILE	190.00	190.00	77.00	77.00	OC21V	METHYL ISOBUTYL KETONE (4-M	
G69DIA	MW-69	09/20/1999	PROFILE	200.00	200.00	87.00	87.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G69DIA	MW-69	09/20/1999	PROFILE	200.00	200.00	87.00	87.00	OC21V	2-HEXANONE	
G69DIA	MW-69	09/20/1999	PROFILE	200.00	200.00	87.00	87.00	OC21V	ACETONE	
G69DIA	MW-69	09/20/1999	PROFILE	200.00	200.00	87.00	87.00	OC21V	METHYL ETHYL KETONE (2-BUT	
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	8330N	2,6-DINITROTOLUENE	NO
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	8330N	2-NITROTOLUENE	NO
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	8330N	3-NITROTOLUENE	NO
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	8330N	4-NITROTOLUENE	NO
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	NO
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	8330N	PICRIC ACID	NO
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	OC21V	2-HEXANONE	
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	OC21V	ACETONE	
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	OC21V	CHLOROETHANE	

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G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G69DKA	MW-69	09/22/1999	PROFILE	220.00	220.00	107.00	107.00	OC21V	METHYL ISOBUTYL KETONE (4-N	
G69DLA	MW-69	09/22/1999	PROFILE	230.00	230.00	117.00	117.00	OC21V	ACETONE	
G69DLA	MW-69	09/22/1999	PROFILE	230.00	230.00	117.00	117.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G69DMA	MW-69	09/23/1999	PROFILE	240.00	240.00	127.00	127.00	8330N	2-NITROTOLUENE	NO
G69DMA	MW-69	09/23/1999	PROFILE	240.00	240.00	127.00	127.00	8330N	3-NITROTOLUENE	NO
G69DMA	MW-69	09/23/1999	PROFILE	240.00	240.00	127.00	127.00	8330N	4-NITROTOLUENE	NO
G69DMA	MW-69	09/23/1999	PROFILE	240.00	240.00	127.00	127.00	8330N	PENTAERYTHRITOL TETRANITR	NO
G69DMA	MW-69	09/23/1999	PROFILE	240.00	240.00	127.00	127.00	8330N	PICRIC ACID	NO
G69DMA	MW-69	09/23/1999	PROFILE	240.00	240.00	127.00	127.00	OC21V	ACETONE	
G69DMA	MW-69	09/23/1999	PROFILE	240.00	240.00	127.00	127.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G69DNA	MW-69	09/23/1999	PROFILE	250.00	250.00	137.00	137.00	OC21V	ACETONE	
G69DNA	MW-69	09/23/1999	PROFILE	250.00	250.00	137.00	137.00	OC21V	CARBON DISULFIDE	
G69DNA	MW-69	09/23/1999	PROFILE	250.00	250.00	137.00	137.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G69DOA	MW-69	09/23/1999	PROFILE	260.00	260.00	147.00	147.00	8330N	1,3-DINITROBENZENE	NO
G69DOA	MW-69	09/23/1999	PROFILE	260.00	260.00	147.00	147.00	OC21V	ACETONE	
G69DOA	MW-69	09/23/1999	PROFILE	260.00	260.00	147.00	147.00	OC21V	CHLOROMETHANE	
G69DOA	MW-69	09/23/1999	PROFILE	260.00	260.00	147.00	147.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G69DPA	MW-69	09/23/1999	PROFILE	270.00	270.00	157.00	157.00	OC21V	ACETONE	

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