WEEKLY PROGRESS UPDATE
FOR MAY 15 – MAY 19, 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 May 15 to May 19, 2000.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of May 19 is summarized in Table 1.

Table 1. Drilling progress as of May 19, 2000

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-102	Impact Area Response Well (P-21)	325	178	
MW-103	Impact Area Response Well (P-17)	230	86	
MW-104	Target 9 Well	220	100	

bgs = below ground surface
bwt = below water table

Drilling continued on MW-102 (Impact Area response well P-21), MW-103 (Impact Area response well P-17), and MW-104 (Target 9 well). The development of newly installed wells continued. UXO located on the J-2 Range was detonated on 5/18/00.

Samples collected during the reporting period are summarized in Table 2. Soil samples were collected from the craters of the UXO detonated on 5/18/00 at the J-2 Range. Groundwater sampling continued for Long Term Monitoring wells and for the new Impact Area response wells. Groundwater profile samples were collected from MW-102 (P-21), MW-103 (P-17), and MW-104 (Target 9). Deep soil samples were collected during drilling at the borings for MW-103 and MW-104. Soil samples were collected from Rapid Response Action grids in the KD Range and the APC.

The Guard, EPA, and MADEP had a meeting on May 18 to discuss technical issues, including the following:

- The Guard distributed the TriMas Corporation's response to the 104e request for information.

- Jacobs presented an update of the CS-19 investigation. Continue to work on the RI report, which is due on June 28. Jacobs asked for the status of the agency comments on the surface soil letter. The DEP noted that they would look into the status of their comments. The EPA indicated that they forwarded the letter to the EPA risk assessors and are awaiting their comments. EPA noted that they had received Jacob's e-mail on the exclusion of 58MW0011D and E from the plume map but still do not believe that the effects from CS-19 can be ruled out. Ogden indicated that they would include both viewpoints in the meeting minutes for the weekly report.

- There was no update from JPO on the water supply investigation. DEP indicated that JPO asked if the agencies wanted to participate in the pump test. EPA indicated that they did not need to participate. Pump test proposals for sites 2 and 4 have been sent to the DEP.

- Tetra Tech presented an update of the munitions survey investigation. Geophysics of the ponds is ongoing. Handouts of the Bailey and Donnely ponds data point maps and the Donnely Pond anomaly map were distributed. The anomaly map is preliminary as Tetra Tech is working on interference issues. Deep Bottom, Gibbs, and J-3 Wetland are scheduled for next week. The J-2 Range survey needs a separate meeting with EPA, DEP and the Guard to resolve the physical extent of the investigation. This was discussed at the end of the tech meeting, and a sketch of the revised extent of survey was prepared. The revised HUTA Workplan including the HASP, QAPP, SAP, and schedule, has been delivered to the agencies. There are still three outstanding questions:
  - The location of the HUTA needs to be identified. Ogden indicated that the USGS would have the particle tracks on Friday afternoon. Ogden will produce a map with the backtracks along with a suggested 4-acre investigation area by Monday morning.
  - The request for proposal is out for the aerial survey. The contract award will be done on the Tuesday after Memorial Day and the work completed within ten days. EPA asked if the HUTA was going to be surveyed again after the surface clearance is completed. Tetra Tech indicated that it would not be re-surveyed because of the high cost of mobilization.
  - Tetra Tech has proposed a new schedule to the Guard for notification of UXO blow in place activities. This new BIP proposal is required in order to keep on schedule. The Guard is looking for guidance from the DOD. There was a discussion of information needed for the BIPs... this was the subject of a recent email from EPA to the Guard. The Guard will provide a proposal to EPA for BIP logistics by 6/1/00. It was suggested that the Friday afternoon meeting between contractors be used to coordinate work around the scheduled safety zones. EPA indicated that the original March 3rd schedule has enforceable milestones that this revised schedule has work projected past, which would be in violation of the order.

  The slit trench metallic debris will be removed next week. EPA requested that the UXO contractor ensure that it is safe to remove.

- Ogden provided an update of the Rapid Response Action. Currently working on the revisions to the workplan based on the 5/16 meeting. The FSP is being modified to include the additional sample depth at the J-3 wetland, the GP-7 grids, and the KD Range grids, and should be ready next week. The UXO contractor will have to be re-mobilized to clear these grids. There has been no response from the Sandwich Conservation Commission on the J-3 wetland. Locating the processing area is underway and the engineering plan development will start soon. Soil sampling is expected to continue for several weeks.

- The status of the rock pile from the berm maintenance program should be resolved next week. The Guard asked how long it would take Ogden to relocate the rock pile if contracted. Ogden indicated it would take approximately one week.

- Ogden provided an update of the Groundwater Investigation. Currently setting wells on MW-102 (P-21), should finish on MW-104 (Target 9) on Friday, and continue to drill on MW-103 (P-17). Continue to sample the LTM wells. The Guard asked if everything has been resolved on the LTM plan. Ogden indicated that a proposal was outstanding on a specific monitoring program for the Southeast Ranges area, and the annual monitoring locations remain to be chosen. Ogden will provide proposals on these issues. It was agreed that the Central Impact Area response well sampling is a higher priority then finishing the LTM round 1 by the end of May. Ogden will have the groundwater crews switch from sampling the LTM wells to the response wells next week. Handouts of the draft inner and outer transect cross sections were distributed. Ogden will e-mail files to EPA and TRC.

- The EPA comments on the J-2 Workplan were discussed. Ogden indicated that EPA conditionally approved the plan and questioned whether DEP was planning to provide comments. DEP indicated yes. Ogden proposed to have a site walk of the J-2 Range with Mr. Varney and Mr. Fredrick next

week in order to resolve questions on EPA comments, and to extend the response deadline from 5/26 to 6/2/00. This might also allow for a joint response to DEP comments, if they were available before then. A discussion of specific questions relating to EPA comments resumed at the end of the tech meeting.

- The Guard indicated that they are in the process of preparing an addendum to the Demo 1 IRA to include the three new locations of C-4. The DEP asked if any additional C-4 had been located. The Guard indicated that all C-4 located is included with the addition of this addendum.

- The EPA requested that future UXO BIP results be provided prior to their discussion at IART meetings. The Guard indicated that they plan to include the April and May BIP detections with the response plan that was just delivered, and will prepare an amendment. EPA asked if the craters with detections have been covered. Ogden indicated that all blow in place craters from April and May were covered with plastic.

- Ogden indicated that the results of the six additional FS-12 wells sampled were all ND. EPA indicated that there are data gaps off base and the J Range response plans should investigate these areas. The Guard indicated that their meeting with Jacobs on Monday 5/15 indicated that the FS-12 treatment system was going to be adjusted to capture the EDB in Snake Pond, which should capture the explosives detected in the area. Ogden will re-evaluate the data and have a response in two to three weeks.

- The revised Small Arms Range Firing Investigation plan was discussed. A response to DEP's comments will be prepared. EPA comments were provided verbally at a previous tech meeting. Regarding borings, EPA clarified that the surface soil samples should be sufficient for now.

- It was agreed to leave the Progress Report format as is for now.

- An action item from the IART meeting was to get a complete list of the contractors and their license agreements for the J Ranges. The Guard will follow-up on this with USACE.

- Guard will prepare a letter to propose additional Central Impact Area Response wells by Tuesday 5/23. At the IART meeting Dr. Gschwend suggested two borings on the north inner transect to resolve the northern extent issue.

- A copy of the draft Demo 1 transverse cross section with plume was distributed and will be e-mailed to EPA and TRC.

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:

- The post-detonation soil samples from two of the four craters at drilling pad P-19 had detections of TNT, RDX, HMX, 2,6-dinitrotoluene (2,6-DNT), 2-nitrotoluene (2-NT), PETN, and picric acid. The detections of TNT, RDX, HMX, and 2-NT were verified by PDA spectra.

- The groundwater sample from MW-19S had detections of TNT, 2-amino-4,6-dinitrotoluene (2A-DNT), 4-amino-2,6-dinitrotoluene (4A-DNT), RDX, and HMX, which were verified by PDA spectra. Previous rounds of sampling of this well had similar explosive detections.

- The groundwater sample from MW-23M1 had a detection of RDX, which was verified by PDA spectra. Previous sampling of this well had RDX detections.

- The groundwater sample from MW-31M1 had detections of RDX, HMX, 2A-DNT, and 4A-DNT, which were verified by PDA spectra. Previous sampling of this well had similar explosive detections.

- The groundwater sample from MW-31S had detections of TNT, 2A-DNT, 4A-DNT, RDX, and HMX, which were verified by PDA spectra. Previous sampling of this well had similar explosive detections.

- A groundwater profile sample from MW-102 had detections of 2,6-DNT, 2-NT, 3-NT, 4-NT, and PETN. The 2,6-DNT was verified by PDA spectra.

- A groundwater profile sample from MW-104 had detections of 2-hexanone (3 intervals), acetone (10 intervals), chloroethane (5 intervals), chloroform (5 intervals), chloromethane (4 intervals), MEK (9 intervals), MIBK (1 interval), benzene (1 interval), 2,6-DNT (6 intervals), RDX (1 interval), PETN (8 intervals), 2A-DNT (1 interval), 2-NT (3 intervals), 3-NT (4 intervals), 4-NT (4 intervals), nitroglycerin (3 intervals), and picric acid (2 intervals). The RDX was verified by PDA spectra.

- The wood chip sample had detections of picric acid, nitroglycerin, 3-NT, 2A-DNT, and 2,6-diamino-4-nitrotoluene, which were not verified by PDA spectra.

3. DELIVERABLES SUBMITTED

Weekly Progress Update for May 1-5, 2000 5/15/00

4. SCHEDULED ACTIONS

Scheduled actions for the week of May 29 include the construction of monitoring wells at MW-102 (P-21), MW-103 (P-17), and MW-104 (Target 9); commencement of the drilling of the P-18 and P-19 wells; the continued groundwater sampling of the Impact Area response wells; and the continued soil sampling of the RRA grids.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

The geophysical data for Demo 1 are being processed for evaluation of anomalies. Preparation of the draft technical memorandum for the Demo 1 response actions is underway. The draft FS Workplan for AO3 (including Demo 1) is under review by the regulatory agencies and other stakeholders.

TABLE 2
SAMPLING PROGRESS
5/15/00-5/19/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HDJ260MM1	HDJ260MM1	05/19/2000	CRATER GRAB				
HDJ281MM2	HDJ281MM2	05/19/2000	CRATER GRAB				
G102DJE	FIELDQC	05/15/2000	FIELDQC	0.00	0.00		
G102DRE	FIELDQC	05/17/2000	FIELDQC	0.00	0.00		
G104DAE	FIELDQC	05/17/2000	FIELDQC	0.00	0.00		
G104DAT	FIELDQC	05/17/2000	FIELDQC	0.00	0.00		
G104DFT	FIELDQC	05/18/2000	FIELDQC	0.00	0.00		
G104DIE	FIELDQC	05/18/2000	FIELDQC	0.00	0.00		
HDJ260MM1-E	FIELDQC	05/19/2000	FIELDQC	0.00	0.00		
HDJ260MM1-T	FIELDQC	05/19/2000	FIELDQC	0.00	0.00		
S103DEE	FIELDQC	05/15/2000	FIELDQC	0.00	0.00		
S103DPE	FIELDQC	05/17/2000	FIELDQC	0.00	0.00		
S104DJE	FIELDQC	05/16/2000	FIELDQC	0.00	0.00		
W23M3T	FIELDQC	05/15/2000	FIELDQC	0.00	0.00		
W43M1T	FIELDQC	05/18/2000	FIELDQC	0.00	0.00		
W50M1T	FIELDQC	05/15/2000	FIELDQC	0.00	0.00		
W03DDA	MW-03	05/17/2000	GROUNDWATER	262.00	267.00	212.78	217.78
W05DDA	MW-05	05/16/2000	GROUNDWATER	335.00	340.00	217.28	222.28
W05DDD	MW-05	05/16/2000	GROUNDWATER	335.00	340.00	217.28	222.28
W13DDA	MW-13	05/17/2000	GROUNDWATER	220.00	225.00	141.50	146.50
W13DDD	MW-13	05/17/2000	GROUNDWATER	220.00	225.00	141.50	146.50
W13SSA	MW-13	05/18/2000	GROUNDWATER	73.00	83.00	-5.18	4.82
W16DDA	MW-16	05/17/2000	GROUNDWATER	355.00	360.00	219.70	224.70
W17M1A	MW-17	05/17/2000	GROUNDWATER	220.00	230.00	93.00	103.00
W23DDA	MW-23	05/15/2000	GROUNDWATER	272.00	282.00	142.37	152.37
W23M2A	MW-23	05/15/2000	GROUNDWATER	189.00	194.00	59.35	64.35
W23M3A	MW-23	05/15/2000	GROUNDWATER	156.00	161.00	26.30	31.30
W31DDA	MW-31	05/15/2000	GROUNDWATER	133.00	138.00	43.45	48.45
W31M1A	MW-31	05/15/2000	GROUNDWATER	113.00	123.00	23.21	33.21
W31SSA	MW-31	05/15/2000	GROUNDWATER	98.00	103.00	8.17	13.17
W34M1A	MW-34	05/17/2000	GROUNDWATER	151.00	161.00	70.88	80.88
W34M2A	MW-34	05/18/2000	GROUNDWATER	131.00	141.00	50.72	60.72
W34M3A	MW-34	05/18/2000	GROUNDWATER	111.00	121.00	30.55	40.55
W36M1A	MW-36	05/18/2000	GROUNDWATER	151.00	161.00	72.47	82.47
W36M2A	MW-36	05/18/2000	GROUNDWATER	131.00	141.00	52.46	62.46
W38DDA	MW-38	05/17/2000	GROUNDWATER	242.00	252.00	120.50	130.50
W38M1A	MW-38	05/16/2000	GROUNDWATER	217.00	227.00	95.27	105.27
W38M2A	MW-38	05/17/2000	GROUNDWATER	187.00	197.00	65.27	75.27
W38M3A	MW-38	05/16/2000	GROUNDWATER	170.00	180.00	48.52	58.52
W38M4A	MW-38	05/16/2000	GROUNDWATER	132.00	142.00	10.45	20.45
W38SSA	MW-38	05/16/2000	GROUNDWATER	115.00	125.00	-6.70	3.30
W39M1A	MW-39	05/18/2000	GROUNDWATER	220.00	230.00	81.60	91.60
W39M2A	MW-39	05/18/2000	GROUNDWATER	175.00	185.00	36.48	46.48
W39SSA	MW-39	05/19/2000	GROUNDWATER	131.00	141.00	-7.40	2.60

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
5/15/00-5/19/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
W41M1A	MW-41	05/18/2000	GROUNDWATER	235.00	245.00	164.00	174.00
W42M1A	MW-42	05/18/2000	GROUNDWATER	235.00	245.00	164.00	174.00
W42M1D	MW-42	05/19/2000	GROUNDWATER	206.00	216.00	135.00	145.00
W42M2A	MW-42	05/19/2000	GROUNDWATER	186.00	196.00	115.50	125.50
W42M2D	MW-42	05/19/2000	GROUNDWATER	186.00	176.00	115.50	105.50
W42M3A	MW-42	05/19/2000	GROUNDWATER	166.00	176.00	95.41	105.41
W46DDA	MW-46	05/16/2000	GROUNDWATER	295.00	305.00	132.95	142.95
W46M1A	MW-46	05/16/2000	GROUNDWATER	262.00	272.00	99.32	109.32
W46M2A	MW-46	05/15/2000	GROUNDWATER	215.00	225.00	52.37	62.37
W46M3A	MW-46	05/16/2000	GROUNDWATER	182.00	192.00	18.90	28.90
W50DDA	MW-50	05/15/2000	GROUNDWATER	237.00	247.00	116.02	126.02
W50DDD	MW-50	05/15/2000	GROUNDWATER	237.00	247.00	116.02	126.02
W50M1A	MW-50	05/15/2000	GROUNDWATER	207.00	217.00	86.07	96.07
W50M2A	MW-50	05/15/2000	GROUNDWATER	177.00	187.00	56.13	66.13
W50M3A	MW-50	05/16/2000	GROUNDWATER	147.00	157.00	25.85	35.85
W90M1A	MW-90	05/19/2000	GROUNDWATER	145.00	155.00	24.87	34.87
W90M1D	MW-90	05/19/2000	GROUNDWATER	145.00	155.00	24.87	34.87
W90SSA	MW-90	05/19/2000	GROUNDWATER	118.00	128.00	-2.32	7.68
W91SSA	MW-91	05/19/2000	GROUNDWATER	124.00	134.00	-2.60	7.40
W92M1A	MW-92	05/19/2000	GROUNDWATER	165.00	175.00	24.06	34.06
W92SSA	MW-92	05/19/2000	GROUNDWATER	139.00	149.00	-2.10	7.90
COMPOIL-#2	COMPOIL-#2	05/16/2000	IDW				
DW0518	GAC WATER	05/18/2000	IDW				
DW1505	GAC WATER	05/15/2000	IDW				
G102DJA	MW-102	05/15/2000	PROFILE	240.00	240.00	93.30	93.30
G102DKA	MW-102	05/15/2000	PROFILE	250.00	250.00	103.30	103.30
G102DLA	MW-102	05/15/2000	PROFILE	260.00	260.00	113.30	113.30
G102DMA	MW-102	05/15/2000	PROFILE	270.00	270.00	123.30	123.30
G102DNA	MW-102	05/15/2000	PROFILE	280.00	280.00	133.30	133.30
G102DOA	MW-102	05/15/2000	PROFILE	290.00	290.00	143.30	143.30
G102DPA	MW-102	05/15/2000	PROFILE	300.00	300.00	153.30	153.30
G102DQA	MW-102	05/17/2000	PROFILE	310.00	310.00	163.30	163.30
G102DRA	MW-102	05/17/2000	PROFILE	320.00	320.00	173.30	173.30
G102DSA	MW-102	05/17/2000	PROFILE	325.00	325.00	178.30	178.30
G103DAA	MW-103	05/18/2000	PROFILE	150.00	150.00	5.80	5.80
G103DAD	MW-103	05/18/2000	PROFILE	150.00	150.00	5.80	5.80
G103DBA	MW-103	05/18/2000	PROFILE	160.00	160.00	15.80	15.80
G103DCA	MW-103	05/18/2000	PROFILE	170.00	170.00	25.80	25.80
G103DDA	MW-103	05/18/2000	PROFILE	180.00	180.00	35.80	35.80
G103DDD	MW-103	05/18/2000	PROFILE	180.00	180.00	35.80	35.80
G103DEA	MW-103	05/18/2000	PROFILE	190.00	190.00	45.80	45.80
G103DFA	MW-103	05/18/2000	PROFILE	200.00	200.00	55.80	55.80
G103DGA	MW-103	05/18/2000	PROFILE	210.00	210.00	65.80	65.80
G103DHA	MW-103	05/18/2000	PROFILE	220.00	220.00	75.80	75.80

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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5/15/00-5/19/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
G103DIA	MW-103	05/18/2000	PROFILE	230.00	230.00	85.80	85.80
G103DID	MW-103	05/18/2000	PROFILE	230.00	230.00	85.80	85.80
G104DAA	MW-104	05/16/2000	PROFILE	122.00	122.00	1.40	1.40
G104DBA	MW-104	05/17/2000	PROFILE	130.00	130.00	9.40	9.40
G104DCA	MW-104	05/17/2000	PROFILE	140.00	140.00	19.40	19.40
G104DDA	MW-104	05/17/2000	PROFILE	150.00	150.00	29.40	29.40
G104DDD	MW-104	05/17/2000	PROFILE	150.00	150.00	29.40	29.40
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40
G104DFA	MW-104	05/18/2000	PROFILE	170.00	170.00	49.40	49.40
G104DGA	MW-104	05/18/2000	PROFILE	180.00	180.00	59.40	59.40
G104DHA	MW-104	05/18/2000	PROFILE	190.00	190.00	69.40	69.40
G104DIA	MW-104	05/18/2000	PROFILE	200.00	200.00	79.40	79.40
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40
G104DJD	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40
S103DEA	MW-103	05/15/2000	SOIL BORING	31.50	33.50		
S103DFA	MW-103	05/16/2000	SOIL BORING	40.00	42.00		
S103DGA	MW-103	05/16/2000	SOIL BORING	50.00	52.00		
S103DHA	MW-103	05/16/2000	SOIL BORING	60.00	62.00		
S103DIA	MW-103	05/16/2000	SOIL BORING	70.00	72.00		
S103DJA	MW-103	05/16/2000	SOIL BORING	80.00	82.00		
S103DKA	MW-103	05/17/2000	SOIL BORING	90.00	92.00		
S103DLA	MW-103	05/17/2000	SOIL BORING	100.00	102.00		
S103DMA	MW-103	05/17/2000	SOIL BORING	110.00	112.00		
S103DMD	MW-103	05/17/2000	SOIL BORING	110.00	112.00		
S103DNA	MW-103	05/17/2000	SOIL BORING	120.00	122.00		
S103DOA	MW-103	05/17/2000	SOIL BORING	130.00	132.00		
S103DPA	MW-103	05/17/2000	SOIL BORING	140.00	142.00		
S104DHA	MW-104	05/15/2000	SOIL BORING	60.00	62.00		
S104DIA	MW-104	05/15/2000	SOIL BORING	70.00	72.00		
S104DJA	MW-104	05/16/2000	SOIL BORING	80.00	82.00		
S104DKA	MW-104	05/16/2000	SOIL BORING	90.00	92.00		
S104DLA	MW-104	05/16/2000	SOIL BORING	100.00	102.00		
S104DMA	MW-104	05/16/2000	SOIL BORING	110.00	112.00		
HC44BB1AAT	FIELDQC	05/16/2000	FIELDQC	0.00	0.00		
HC44C1CAE	FIELDQC	05/15/2000	FIELDQC	0.00	0.00		
HC44C1CAF	FIELDQC	05/15/2000	FIELDQC	0.00	0.00		
HC44C1CAT	FIELDQC	05/15/2000	FIELDQC	0.00	0.00		
HC44IA1AAT	FIELDQC	05/16/2000	FIELDQC	0.00	0.00		
HC44NB1AAE	FIELDQC	05/17/2000	FIELDQC	0.00	0.00		
HC44NB1AAT	FIELDQC	05/17/2000	FIELDQC	0.00	0.00		
HC44UB1AAE	FIELDQC	05/16/2000	FIELDQC	0.00	0.00		
HCAPC1DAE	FIELDQC	05/18/2000	FIELDQC	0.00	0.00		
HCAPC1DAT	FIELDQC	05/18/2000	FIELDQC	0.00	0.00		
HCAPC2A1AAE	FIELDQC	05/19/2000	FIELDQC	0.00	0.00		

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5/15/00-5/19/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC44BA1AAA	44BA	05/16/2000	SOIL GRID	0.00	0.50		
HC44BA1AAD	44BA	05/16/2000	SOIL GRID	0.00	0.50		
HC44BB1AAA	44BB	05/16/2000	SOIL GRID	0.00	0.50		
HC44BC1AAA	44BC	05/16/2000	SOIL GRID	0.00	0.50		
HC44C1CAA	44C	05/15/2000	SOIL GRID	1.50	2.00		
HC44C1CAD	44C	05/15/2000	SOIL GRID	1.50	2.00		
HC44CA1AAA	44C	05/15/2000	SOIL GRID	0.00	0.50		
HC44CA1BAA	44C	05/15/2000	SOIL GRID	1.50	2.00		
HC44CC1AAA	44CC	05/15/2000	SOIL GRID	0.00	0.50		
HC44CC1BAA	44CC	05/15/2000	SOIL GRID	1.50	2.00		
HC44DA1AAA	44DA	05/16/2000	SOIL GRID	0.00	0.50		
HC44DB1AAA	44DB	05/16/2000	SOIL GRID	0.00	0.50		
HC44DC1AAA	44DC	05/16/2000	SOIL GRID	0.00	0.50		
HC44E1CAA	44E	05/15/2000	SOIL GRID	1.50	2.00		
HC44EA1AAA	44EA	05/15/2000	SOIL GRID	0.00	0.50		
HC44EA1BAA	44EA	05/15/2000	SOIL GRID	1.50	2.00		
HC44EB1AAA	44EB	05/16/2000	SOIL GRID	0.00	0.50		
HC44EB1BAA	44EB	05/16/2000	SOIL GRID	1.50	2.00		
HC44EC1AAA	44EC	05/15/2000	SOIL GRID	0.00	0.50		
HC44EC1BAA	44EC	05/15/2000	SOIL GRID	1.50	2.00		
HC44FA1AAA	44FA	05/18/2000	SOIL GRID	0.00	0.50		
HC44FB1AAA	44FB	05/18/2000	SOIL GRID	0.00	0.50		
HC44FC1AAA	44FC	05/18/2000	SOIL GRID	0.00	0.50		
HC44GA1AAA	44GA	05/16/2000	SOIL GRID	0.00	0.50		
HC44GB1AAA	44GB	05/16/2000	SOIL GRID	0.00	0.50		
HC44GB1AAD	44GB	05/16/2000	SOIL GRID	0.00	0.50		
HC44GC1AAA	44GC	05/16/2000	SOIL GRID	0.00	0.50		
HC44GC1AAD	44GC	05/16/2000	SOIL GRID	0.00	0.50		
HC44IA1AAA	44IA	05/16/2000	SOIL GRID	0.00	0.50		
HC44IB1AAA	44IB	05/16/2000	SOIL GRID	0.00	0.50		
HC44IC1AAA	44IC	05/16/2000	SOIL GRID	0.00	0.50		
HC44J1DAA	44J	05/18/2000	SOIL GRID	1.50	2.00		
HC44K1DAA	44K	05/18/2000	SOIL GRID	1.50	2.00		
HC44MA1AAA	44MA	05/17/2000	SOIL GRID	0.00	0.50		
HC44MA1BAA	44MA	05/17/2000	SOIL GRID	0.50	1.00		
HC44MB1AAA	44MB	05/17/2000	SOIL GRID	0.00	0.50		
HC44MB1BAA	44MB	05/17/2000	SOIL GRID	0.50	1.00		
HC44MC1AAA	44MC	05/16/2000	SOIL GRID	0.00	0.50		
HC44MC1BAA	44MC	05/16/2000	SOIL GRID	1.50	2.00		
HC44N1DAA	44N	05/17/2000	SOIL GRID	1.50	2.00		
HC44NA1AAA	44NA	05/17/2000	SOIL GRID	0.00	0.50		
HC44NA1BAA	44NA	05/17/2000	SOIL GRID	0.50	1.00		
HC44NB1AAA	44NB	05/17/2000	SOIL GRID	0.00	0.50		
HC44NB1BAA	44NB	05/17/2000	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 2
SAMPLING PROGRESS
5/15/00-5/19/00

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
HC44NC1AAA	44NC	05/18/2000	SOIL GRID	0.00	0.50		
HC44NC1BAA	44NC	05/18/2000	SOIL GRID	0.50	1.00		
HC44TA1AAA	44TA	05/16/2000	SOIL GRID	0.00	0.50		
HC44TA1AAD	44TA	05/16/2000	SOIL GRID	0.00	0.50		
HC44TB1AAA	44TB	05/16/2000	SOIL GRID	0.00	0.50		
HC44TC1AAA	44TC	05/16/2000	SOIL GRID	0.00	0.50		
HC44UA1AAA	44UA	05/16/2000	SOIL GRID	0.00	0.50		
HC44UB1AAA	44UB	05/16/2000	SOIL GRID	0.00	0.50		
HC44UB1AAD	44UB	05/16/2000	SOIL GRID	0.00	0.50		
HC44UC1AAA	44UC	05/16/2000	SOIL GRID	0.00	0.50		
HCAPC1DAA	HCAPC1DAA	05/18/2000	SOIL GRID	1.50	2.00		
HCAPC2DAA	HCAPC2DAA	05/19/2000	SOIL GRID	1.50	1.50		
HCAPC3A1AAA	HCAPC3A1AAA	05/19/2000	SOIL GRID	0.00	0.50		
HCAPC3A1BAA	HCAPC3A1BAA	05/19/2000	SOIL GRID	0.50	1.00		
HCAPC3B1AAA	HCAPC3B1AAA	05/19/2000	SOIL GRID	0.00	0.50		
HCAPC3B1BAA	HCAPC3B1BAA	05/19/2000	SOIL GRID	0.50	1.00		
HCAPC3DAA	HCAPC3DAA	05/19/2000	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
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 5/15/00-5/19/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
HCP19105MM5	HCP19105MM5	05/05/2000	CRATER GRAB	0.00	0.25			8330N	2,4,6-TRINITROTOLUENE	YES
HCP19105MM5	HCP19105MM5	05/05/2000	CRATER GRAB	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HCP19105MM5	HCP19105MM5	05/05/2000	CRATER GRAB	0.00	0.25			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
HDP19105MM1	HDP19105MM1	05/05/2000	CRATER GRAB	0.00	0.25			8330N	2,6-DINITROTOLUENE	NO
HDP19105MM1	HDP19105MM1	05/05/2000	CRATER GRAB	0.00	0.25			8330N	2-NITROTOLUENE	YES
HDP19105MM1	HDP19105MM1	05/05/2000	CRATER GRAB	0.00	0.25			8330N	PENTAERYTHRITOL TETRANITR	NO
HDP19105MM1	HDP19105MM1	05/05/2000	CRATER GRAB	0.00	0.25			8330N	PICRIC ACID	NO
HDP19105MM5	HDP19105MM5	05/05/2000	CRATER GRAB	0.00	0.25			8330N	2,4,6-TRINITROTOLUENE	YES
HDP19105MM5	HDP19105MM5	05/05/2000	CRATER GRAB	0.00	0.25			8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
HDP19105MM5	HDP19105MM5	05/05/2000	CRATER GRAB	0.00	0.25			8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W19SSA	MW-19	05/12/2000	GROUNDWATER	38.00	48.00	-7.00	3.00	8330N	2,4,6-TRINITROTOLUENE	YES
W19SSA	MW-19	05/12/2000	GROUNDWATER	38.00	48.00	-7.00	3.00	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
W19SSA	MW-19	05/12/2000	GROUNDWATER	38.00	48.00	-7.00	3.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W19SSA	MW-19	05/12/2000	GROUNDWATER	38.00	48.00	-7.00	3.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W19SSA	MW-19	05/12/2000	GROUNDWATER	38.00	48.00	-7.00	3.00	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W23M1A	MW-23	05/12/2000	GROUNDWATER	225.00	235.00	95.54	105.54	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W31M1A	MW-31	05/15/2000	GROUNDWATER	113.00	123.00	23.21	33.21	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
W31M1A	MW-31	05/15/2000	GROUNDWATER	113.00	123.00	23.21	33.21	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W31M1A	MW-31	05/15/2000	GROUNDWATER	113.00	123.00	23.21	33.21	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W31M1A	MW-31	05/15/2000	GROUNDWATER	113.00	123.00	23.21	33.21	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
W31SSA	MW-31	05/15/2000	GROUNDWATER	98.00	103.00	8.17	13.17	8330N	2,4,6-TRINITROTOLUENE	YES
W31SSA	MW-31	05/15/2000	GROUNDWATER	98.00	103.00	8.17	13.17	8330N	2,4-DINITROTOLUENE	YES
W31SSA	MW-31	05/15/2000	GROUNDWATER	98.00	103.00	8.17	13.17	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
W31SSA	MW-31	05/15/2000	GROUNDWATER	98.00	103.00	8.17	13.17	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W31SSA	MW-31	05/15/2000	GROUNDWATER	98.00	103.00	8.17	13.17	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W31SSA	MW-31	05/15/2000	GROUNDWATER	98.00	103.00	8.17	13.17	8330N	OCTAHYDRO-1,3,5,7-TETRANITR	YES
G102DAA	MW-102	05/11/2000	PROFILE	150.00	150.00	3.30	3.30	8330N	2,6-DINITROTOLUENE	YES
G102DAA	MW-102	05/11/2000	PROFILE	150.00	150.00	3.30	3.30	8330N	2-NITROTOLUENE	NO
G102DAA	MW-102	05/11/2000	PROFILE	150.00	150.00	3.30	3.30	8330N	3-NITROTOLUENE	NO
G102DAA	MW-102	05/11/2000	PROFILE	150.00	150.00	3.30	3.30	8330N	4-NITROTOLUENE	NO
G102DAD	MW-102	05/11/2000	PROFILE	150.00	150.00	3.30	3.30	8330N	2,6-DINITROTOLUENE	YES
G102DAD	MW-102	05/11/2000	PROFILE	150.00	150.00	3.30	3.30	8330N	2-NITROTOLUENE	NO
G102DAD	MW-102	05/11/2000	PROFILE	150.00	150.00	3.30	3.30	8330N	3-NITROTOLUENE	NO

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 5/15/00-5/19/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G102DAD	MW-102	05/11/2000	PROFILE	150.00	150.00	3.30	3.30	8330N	4-NITROTOLUENE	NO
G102DAD	MW-102	05/11/2000	PROFILE	150.00	150.00	3.30	3.30	8330N	PENTAERYTHRITOL TETRANITF	NO
G102DCA	MW-102	05/11/2000	PROFILE	170.00	170.00	23.30	23.30	8330N	2,6-DINITROTOLUENE	YES
G102DCA	MW-102	05/11/2000	PROFILE	170.00	170.00	23.30	23.30	8330N	3-NITROTOLUENE	NO
G102DCA	MW-102	05/11/2000	PROFILE	170.00	170.00	23.30	23.30	8330N	4-NITROTOLUENE	NO
G104DAA	MW-104	05/16/2000	PROFILE	122.00	122.00	1.40	1.40	OC21V	2-HEXANONE	
G104DAA	MW-104	05/16/2000	PROFILE	122.00	122.00	1.40	1.40	OC21V	ACETONE	
G104DAA	MW-104	05/16/2000	PROFILE	122.00	122.00	1.40	1.40	OC21V	CHLOROETHANE	
G104DAA	MW-104	05/16/2000	PROFILE	122.00	122.00	1.40	1.40	OC21V	CHLOROFORM	
G104DAA	MW-104	05/16/2000	PROFILE	122.00	122.00	1.40	1.40	OC21V	CHLOROMETHANE	
G104DAA	MW-104	05/16/2000	PROFILE	122.00	122.00	1.40	1.40	OC21V	METHYL ETHYL KETONE (2-BUT	
G104DAA	MW-104	05/16/2000	PROFILE	122.00	122.00	1.40	1.40	OC21V	METHYL ISOBUTYL KETONE (4-I	
G104DBA	MW-104	05/17/2000	PROFILE	130.00	130.00	9.40	9.40	OC21V	ACETONE	
G104DBA	MW-104	05/17/2000	PROFILE	130.00	130.00	9.40	9.40	OC21V	CHLOROETHANE	
G104DBA	MW-104	05/17/2000	PROFILE	130.00	130.00	9.40	9.40	OC21V	CHLOROFORM	
G104DBA	MW-104	05/17/2000	PROFILE	130.00	130.00	9.40	9.40	OC21V	CHLOROMETHANE	
G104DBA	MW-104	05/17/2000	PROFILE	130.00	130.00	9.40	9.40	OC21V	METHYL ETHYL KETONE (2-BUT	
G104DCA	MW-104	05/17/2000	PROFILE	140.00	140.00	19.40	19.40	8330N	2,6-DINITROTOLUENE	NO
G104DCA	MW-104	05/17/2000	PROFILE	140.00	140.00	19.40	19.40	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
G104DCA	MW-104	05/17/2000	PROFILE	140.00	140.00	19.40	19.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G104DCA	MW-104	05/17/2000	PROFILE	140.00	140.00	19.40	19.40	OC21V	ACETONE	
G104DCA	MW-104	05/17/2000	PROFILE	140.00	140.00	19.40	19.40	OC21V	CHLOROFORM	
G104DCA	MW-104	05/17/2000	PROFILE	140.00	140.00	19.40	19.40	OC21V	METHYL ETHYL KETONE (2-BUT	
G104DDA	MW-104	05/17/2000	PROFILE	150.00	150.00	29.40	29.40	8330N	2,6-DINITROTOLUENE	NO
G104DDA	MW-104	05/17/2000	PROFILE	150.00	150.00	29.40	29.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G104DDA	MW-104	05/17/2000	PROFILE	150.00	150.00	29.40	29.40	OC21V	ACETONE	
G104DDD	MW-104	05/17/2000	PROFILE	150.00	150.00	29.40	29.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G104DDD	MW-104	05/17/2000	PROFILE	150.00	150.00	29.40	29.40	OC21V	ACETONE	
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	8330N	2,6-DINITROTOLUENE	NO
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	8330N	2-NITROTOLUENE	NO
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	8330N	3-NITROTOLUENE	NO
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	8330N	4-NITROTOLUENE	NO
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	8330N	NITROGLYCERIN	NO

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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 5/15/00-5/19/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	OC21V	2-HEXANONE	
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	OC21V	ACETONE	
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	OC21V	BENZENE	
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	OC21V	CHLOROETHANE	
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	OC21V	CHLOROMETHANE	
G104DEA	MW-104	05/17/2000	PROFILE	160.00	160.00	39.40	39.40	OC21V	METHYL ETHYL KETONE (2-BUT	
G104DFA	MW-104	05/18/2000	PROFILE	170.00	170.00	49.40	49.40	8330N	3-NITROTOLUENE	NO
G104DFA	MW-104	05/18/2000	PROFILE	170.00	170.00	49.40	49.40	8330N	4-NITROTOLUENE	NO
G104DFA	MW-104	05/18/2000	PROFILE	170.00	170.00	49.40	49.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G104DFA	MW-104	05/18/2000	PROFILE	170.00	170.00	49.40	49.40	OC21V	ACETONE	
G104DFA	MW-104	05/18/2000	PROFILE	170.00	170.00	49.40	49.40	OC21V	CHLOROFORM	
G104DFA	MW-104	05/18/2000	PROFILE	170.00	170.00	49.40	49.40	OC21V	METHYL ETHYL KETONE (2-BUT	
G104DGA	MW-104	05/18/2000	PROFILE	180.00	180.00	59.40	59.40	8330N	2,6-DINITROTOLUENE	NO
G104DGA	MW-104	05/18/2000	PROFILE	180.00	180.00	59.40	59.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G104DGA	MW-104	05/18/2000	PROFILE	180.00	180.00	59.40	59.40	8330N	PICRIC ACID	NO
G104DGA	MW-104	05/18/2000	PROFILE	180.00	180.00	59.40	59.40	OC21V	ACETONE	
G104DGA	MW-104	05/18/2000	PROFILE	180.00	180.00	59.40	59.40	OC21V	CHLOROFORM	
G104DGA	MW-104	05/18/2000	PROFILE	180.00	180.00	59.40	59.40	OC21V	METHYL ETHYL KETONE (2-BUT	
G104DHA	MW-104	05/18/2000	PROFILE	190.00	190.00	69.40	69.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G104DHA	MW-104	05/18/2000	PROFILE	190.00	190.00	69.40	69.40	OC21V	ACETONE	
G104DHA	MW-104	05/18/2000	PROFILE	190.00	190.00	69.40	69.40	OC21V	CHLOROFORM	
G104DHA	MW-104	05/18/2000	PROFILE	190.00	190.00	69.40	69.40	OC21V	METHYL ETHYL KETONE (2-BUT	
G104DIA	MW-104	05/18/2000	PROFILE	200.00	200.00	79.40	79.40	8330N	2,6-DINITROTOLUENE	NO
G104DIA	MW-104	05/18/2000	PROFILE	200.00	200.00	79.40	79.40	8330N	2-NITROTOLUENE	NO
G104DIA	MW-104	05/18/2000	PROFILE	200.00	200.00	79.40	79.40	8330N	3-NITROTOLUENE	NO
G104DIA	MW-104	05/18/2000	PROFILE	200.00	200.00	79.40	79.40	8330N	4-NITROTOLUENE	NO
G104DIA	MW-104	05/18/2000	PROFILE	200.00	200.00	79.40	79.40	8330N	NITROGLYCERIN	NO
G104DIA	MW-104	05/18/2000	PROFILE	200.00	200.00	79.40	79.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G104DIA	MW-104	05/18/2000	PROFILE	200.00	200.00	79.40	79.40	OC21V	ACETONE	
G104DIA	MW-104	05/18/2000	PROFILE	200.00	200.00	79.40	79.40	OC21V	METHYL ETHYL KETONE (2-BUT	
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	2,6-DINITROTOLUENE	NO
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	2-NITROTOLUENE	NO
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	3-NITROTOLUENE	NO

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 5/15/00-5/19/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	4-NITROTOLUENE	NO
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	NITROGLYCERIN	NO
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	PICRIC ACID	NO
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	OC21V	2-HEXANONE	
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	OC21V	ACETONE	
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	OC21V	CHLOROMETHANE	
G104DJA	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	OC21V	METHYL ETHYL KETONE (2-BUT	
G104DJD	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	3-NITROTOLUENE	NO
G104DJD	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	4-NITROTOLUENE	NO
G104DJD	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	PENTAERYTHRITOL TETRANITF	NO
G104DJD	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	8330N	PICRIC ACID	NO
G104DJD	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	OC21V	2-HEXANONE	
G104DJD	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	OC21V	ACETONE	
G104DJD	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	OC21V	CHLOROETHANE	
G104DJD	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	OC21V	CHLOROMETHANE	
G104DJD	MW-104	05/19/2000	PROFILE	210.00	210.00	89.40	89.40	OC21V	METHYL ETHYL KETONE (2-BUT	
WOOD CHIPS	WOOD CHIPS	05/02/2000	WOOD CHIPS					8330N	2,6-DIAMINO-4-NITROTOLUENE	NO
WOOD CHIPS	WOOD CHIPS	05/02/2000	WOOD CHIPS					8330N	2-AMINO-4,6-DINITROTOLUENE	NO
WOOD CHIPS	WOOD CHIPS	05/02/2000	WOOD CHIPS					8330N	3-NITROTOLUENE	NO
WOOD CHIPS	WOOD CHIPS	05/02/2000	WOOD CHIPS					8330N	NITROGLYCERIN	NO
WOOD CHIPS	WOOD CHIPS	05/02/2000	WOOD CHIPS					8330N	PICRIC ACID	NO

DATA REPORTED REFLECT CURRENT DATABASE FOR SAMPLES COLLECTED IN SPECIFIED TIMEFRAME. NOT ALL RESULTS ARE COMPLETE.
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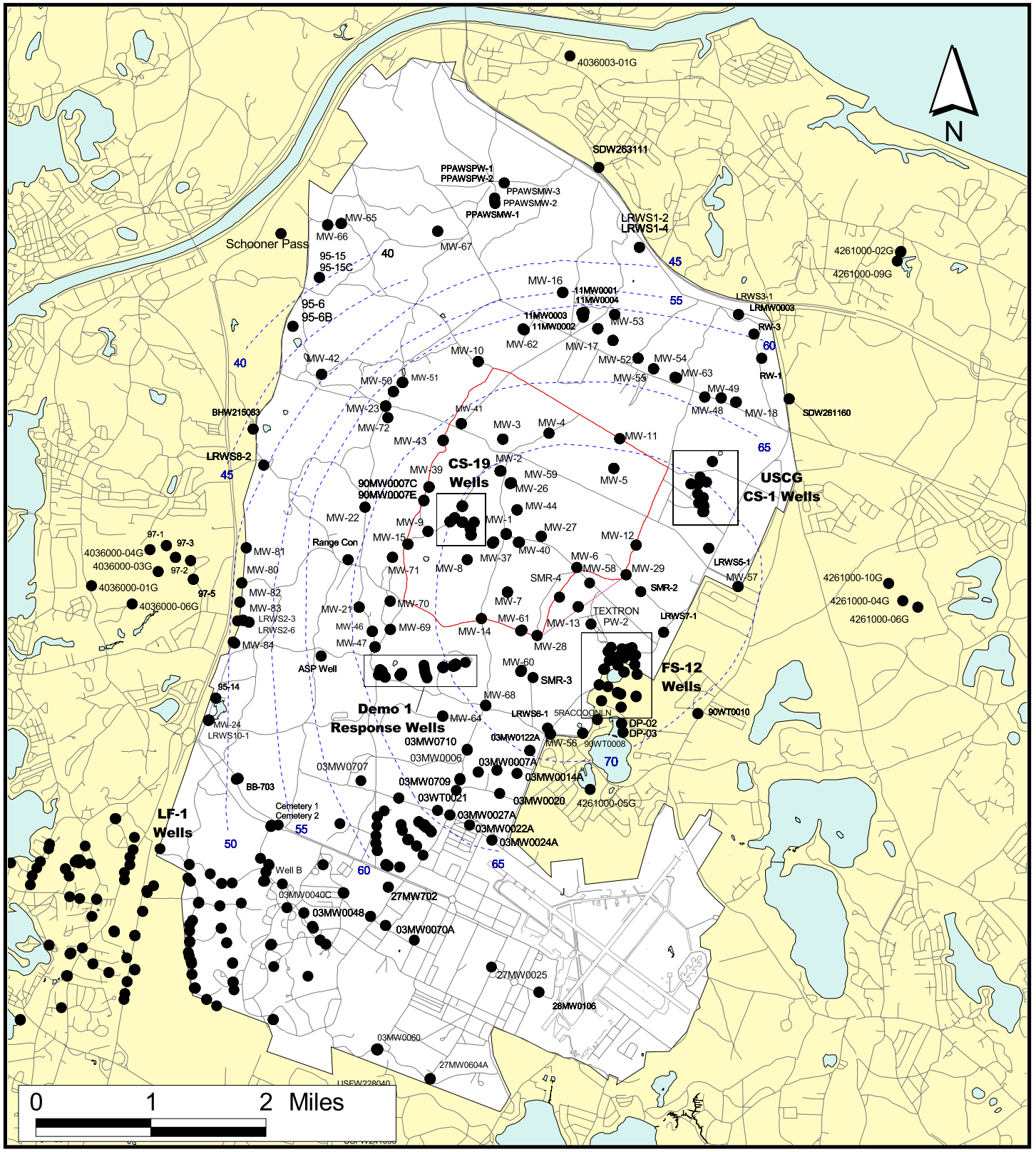


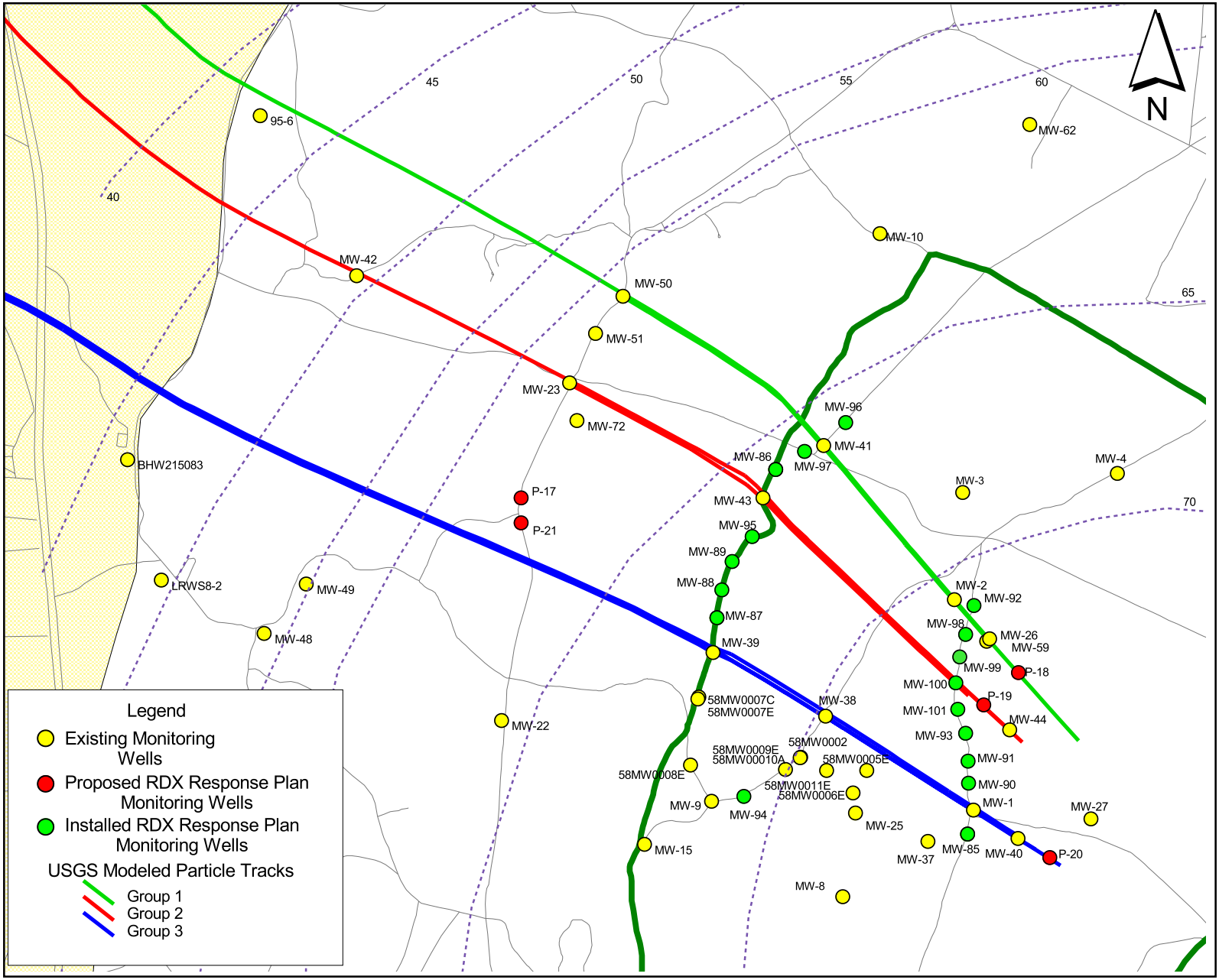
Sources & Notes

Map Coordinates: Stateplane,
NAD83, Zone 4151, Meters
Source: MASSGIS

Location of Existing and Proposed Groundwater Monitoring Wells As Of 12/16/99

L:\MMR\GIS\december99\weekly_figs\dec1699_wells
G:\MMR\well_updates.apr December 20, 1999

December 16, 1999 DRAFT



Proposed RDX Response Plan Wells In The Impact Area

Figure A