WEEKLY PROGRESS UPDATE
FOR SEPTEMBER 4 – SEPTEMBER 8, 2000

EPA REGION I ADMINISTRATIVE ORDERS SDWA 1-97-1019 & 1-2000-0014
MASSACHUSETTS MILITARY RESERVATION
TRAINING RANGE AND IMPACT AREA

The following summary of progress is for the period from September 4 to September 8, 2000.

1. SUMMARY OF ACTIONS TAKEN

Drilling progress as of September 8 is summarized in Table 1.

Table 1. Drilling progress as of September 8, 2000

Boring Number	Purpose of Boring/Well	Total Depth (ft bgs)	Saturated Depth (ft bwt)	Completed Well Screens (ft bgs)
MW-118	Impact Area Response Well P-29	280	169	116-126 146-156
MW-120	J-2 Range (J2P4)	320	215	
MW-122	J-2 Range (J2P1)	101	11	88-98
MW-123	Impact Area Response Well P-35	12		
MW-124	Impact Area Response Well P-36	52		

bgs = below ground surface
bwt = below water table

Completed drilling and well installation on MW-118 (P-29) and MW-122 (J2P-1). Completed drilling on MW-120 (J2P-4). Commenced drilling on MW-123 (Impact Area Response Well P-35) and MW-124 (Impact Area Response Well P-36). Continued UXO clearance of Impact Area Response Well drill pads and downhole clearance of J-2 well locations. Development of newly installed wells continued. Detonated UXO located on the J-1, J-2, J-3, and Demo 1 Ranges.

Samples collected during the reporting period are summarized in Table 2. Groundwater samples were collected from the August Long Term Monitoring wells. Groundwater profile samples were collected during the drilling of MW-120. Deep soil samples were collected during the drilling of MW-122, MW-123, and MW-124. Soil samples were collected for the HUTA study from the 0”-3” and 3”-36” intervals in Test Plot 1 (Area 1.F.). Soil grab samples were collected from around the J-2 Range melt pour building (Area 101A). A soil sample was collected from the APC on Turpentine Road as part of the RRA.

The Guard, EPA, and MADEP had a meeting on September 7 to discuss technical issues, including the following:

- Jacobs provided an update on the CS-19 investigation. The location of the MW-18 particle track has been checked and originates 50 feet below the water table. There was a meeting between Ogden and Jacobs to discuss the difference in the MW-18 particle tracks. The models are basically consistent, but when viewed on a micro scale there are differences caused by different data sets. Ogden indicated that the RDX detection from well P-26 is assumed to be resulting from CS-19, or at least something very close by, and not the central impact area. There will be a modeling meeting on September 19. Marty Aker and Tom Fogg will be available to answer any technical questions that may arise at the IART meeting. David Dow asked during the last meeting what was the cause of the

lack of vegetation in the CS-19 area. EPA indicated that the CS-19 report stated that the soil contamination has effected the vegetation. Revised figures and tables will be distributed to the agencies for review prior to the RCL meeting next Wednesday (9/13).

- The JPO presented an update on the Water Supply Study. The pumping test report is on the way and they will have the proposed chemical monitoring well locations and ZOCs within the next two weeks for DEP approval. The environmental assessment has been completed and the ENF submitted to OEA. They are waiting on a Phase I waiver to proceed with construction and hoping for approval by the end of this month. The EPA requested a short presentation at the October IART about where the ZOCs fall.
- Tetra Tech provided an update on the Munitions Survey. A one page summary handout was distributed. J-2 UXO surface clearance and brush cutting continues. The Brontosaurus has returned and a short video presentation of it will be given at the IART meeting. The HUTA Test Plot 1 (TP1) has been selected and surface and subsurface soils have been sampled, and selection of TP2 will be done today. TP-1 was selected based upon surface items, geophysics, and aerial mag survey. Of the 740 items flagged in the HUTA, only about 1% needed to be BIPed. There is a correlation between high-density ordnance areas and historical target areas. The HUTA data results should be back in early October. Excavation activity of TP1 will begin by 9/15-18. The screening plant set up is complete, and road turnouts and Staging Area preparation continues. The Gun & Mortar/Demo Area 1 excavation work plan has been submitted, revised, and resubmitted on August 31. Validation in Demo 1 began on Thursday, August 24 and has been completed for the first 25 excavations. The EPA inquired about an existing burn pit, and whether it was at the same location as where razor wire was found. Tetra Tech believes they are in two different areas, however they will confirm that information for the next technical meeting. DEP requested a map of Demo 1 with the areas of interest included. The Guard will prepare a plan for the burn pit discovered in the validation trench. The Guard requested that Tetra Tech remove the source of the anomaly if possible. Validation in GP10 has commenced with anomalies (mostly nose rings, lugs, caps, and also a supplemental booster charge) down to one foot are excavated by hand. Anomalies below 1 foot will be excavated with heavy equipment. Validation on GP11 will begin next week.
- Ogden provided an update on the Rapid Response Action. A one-page summary handout was distributed. The Draft Delineation Sampling Report was distributed to agencies on 9/1/00. There was an error in table 2, which included 23B as a J-3 wetland sediment sample. Sample 23B was a surface water sample, therefore 23H is the only grid to be excavated. Envirogen will have a draft report on the treatability study for bioslurry sometime next week. RDX has been reduced to below the detection limit and are waiting for the dieldrin results. Current and upcoming RRA Implementation Activities include the temporary relocation of soil washing equipment and washed rocks (this week), containment pad site grading and UXO clearance (week of 9/11); containment pad paving (week of 9/18), and soil removal (week of 9/25). EPA inquired on the necessity of rock crushing. The Guard replied that it is a process suggested by AEC as the most conservative approach.
- Ogden provided an update on the Groundwater Field Investigation. A one-page summary handout was distributed. Well installation of MW-118 (P-29) has been completed. Drilling of MW-120 (J2P-4) has also been completed, although bedrock was hit 30 ft. short of desired depth. MW-122 (J2P-1) should be completed this week, and drilling of P-36 and D1P-1 will begin next week. Ogden will not have the revised plume locations for the IART meeting. Groundwater sampling of the August LTM round will continue through next week. UXO clearance continues on the Central Impact Area well pads: the J2P-5 well pad will be done next week, as well as the J-1 popper kettle. EPA questioned the accuracy of next week's UXO clearance being J2P-5, rather than J2P-7. Ogden will check on that. Pre and post detonation soil sampling of the items in Demo 1 have been completed and the J-2 Range soil grids will be done next week. EPA requested a list of which soil grids Ogden plans to sample each week.
- Ogden distributed a one-page summary of the IAGS Document Status as of 9/07/00. The HUTA Workplan will be revised in accordance with ACOE requirements with a draft in to the Guard by September 25. The Guard is not seeking comments on the Demo 1/Gun & Mortar Validation Plan

(submitted to the agencies on August 31). The May-June BIP reports are being worked on and awaiting validated data. The MOR for Trenches Investigation TM 00-1 is awaiting agencies' approval. DEP requested a delay of its review until next week. This document has an enforceable deadline of September 18. EPA is still considering the need for the 10/00 tech memo on the Central Impact Area results, per the MOR request of 8/30/00 to delete.

- There was a discussion on the scheduled SAR Firing and status of sampling. As scheduled, the A, G, and I Ranges will be sampled; however, there has not been any recent SAR firing at these ranges. The C Range will be used for firing next month, although the desired count of 4,000 rounds is not expected. The C Range could be substituted for one of the selected ranges or two of the ranges could be sampled now and one could be delayed until there is a firing event. The EPA agreed but indicated that it should be discussed at the IART.
- There was a discussion on the role of the IART in the IAGWSP. The Guard is concerned that too much time at the IART meeting is being spent on issues that are not the primary focus of the groundwater study.
- The EPA requested that a discussion of the latest detections be added to the weekly technical meeting agenda. Ogden should provide a "cheat sheet" with the latest data for these discussions. EPA provided a correction to the latest weekly progress report: Area 101 is actually in the J-2 Range, not the J-3 Range as reported.
- There was a discussion of the Response to Comments on the Feasibility Study Workplan:

  12- page 5: The EPA would like clearly stated in the MOR that disposal occurred at Demo 1. The source is not the primary concern at this point, as the implications are unknown.

  19- page 6: EPA would like exact text, more specific comments about items being changed, stated in the MOR.

  23- page 22: EOD Areas: detonation and burial.

  27- EPA reference: Standard Corps Guidance for UXO safety; can be found on the UXO-Corps website.

  30- Use same language from text.

  40- Done under authority of the Safe Drinking Water Act.

  47- NGB is focusing too much. EPA requested a document presenting a general overview of the available technologies, evaluating how they may be applied at MMR. There was an involved discussion, beginning with the issue of whether or not such a document could be done, and ultimately, about the logical benefits of such a document. NGB does not believe it will be useful, as it will be based on too many assumptions. EPA believes it can be done in a creative fashion with the information already available. NGB suggested that it may be possible to prepare an interim submittal to address EPA concerns. NGB will prepare an approach to move forward with the UXO FS process.

  51- EPA requested additional surface soil samples be collected at Demo 1. These samples should be collected at the same time that the deep soil borings are extended. Upon receipt of TetraTech validation results, NGB will prepare a plan that includes additional surface soil sampling, extension of deep soil borings, and delineation of the "burn pit" identified during validation (see 3rd bullet above).
- EPA distributed a 2-page handout of guidance for determination of COPCs

EPA convened a meeting of the Impact Area Review Team on September 7. Topics discussed during this meeting included status of the Munitions Survey project (aerial survey results, HUTA update) and status of the Impact Area Groundwater Study (sampling results including CS-19, UXO detonation results, Phase 2b plans, SAR study).

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 groundwater sample from MW-37M2 and MW-37M3 had detections of RDX, which were verified by PDA spectra These detections were similar to previous sampling rounds

- The groundwater sample from MW-40S had detections of 2a-DNT and 4a-DNT, which were verified by PDA spectra. This was the first time these compounds were detected.

- The groundwater sample from MW-40M1 had a detection of RDX, which was verified by PDA spectra. This detection was similar to previous sampling rounds.

- The groundwater sample from MW-44S had a detection of 4a-DNT, which was verified by PDA spectra. This detection was similar to previous sampling rounds.

- The groundwater sample from MW-45S had detections of 1,2-dibromo-3-chloropropanol, 1,2-dichlorobenzene, acetone, chloroethane, chloromethane, ethylbenzene, methylene chloride, toluene, trans-1,3-dichloropropene, xylene, 1,3,5-TNB, 2,6-DNT, 2a-DNT, 2-nitrotoluene, 3-nitrotoluene, 4-nitrotoluene, 4a-DNT, nitroglycerin, and picric acid. The explosive detects were not verified by the PDA spectra.

- The groundwater profile samples from MW-118 had detections of acetone (6 intervals), chloroform (3 intervals), MEK (5 intervals), toluene (1 interval), and 2a-DNT (1 interval), which were not verified by the PDA spectra.

- The groundwater profile samples from MW-120 had detections of acetone (23 intervals), chloroform (17 intervals), chloromethane (14 intervals), MEK (20 intervals), 2-hexanone (10 intervals), MIBK (3 intervals), chloroethane (2 intervals), benzene (2 intervals), 1,4-dichlorobenzene (1 interval), TNT (1 interval), 2,6-DNT (7 intervals), 2-nitrotoluene (1 interval), 3-nitrotoluene (1 interval), 4-nitrotoluene (1 interval), picric acid (4 intervals), PETN (4 intervals), 2a-DNT (1 interval), 4a-DNT (1 interval), and nitroglycerin (4 intervals). Five of the 2,6-DNT detections were verified by the PDA spectra.

3. DELIVERABLES SUBMITTED

The following deliverables were submitted during the reporting period.

Draft 3/00 BIP Report	09/06/00
Weekly Progress Update (Aug 28-Sept 1)	09/08/00

4. SCHEDULED ACTIONS

Scheduled actions for the week of September 11 include well installation at MW-120 (J2P-4); continued drilling at MW-123 (P-35) and MW-124 (P-36); commence drilling at J3P-9; the continued UXO clearance of the Central Impact Area and J-3 Range drill pads; collection of UXO detonation crater soil samples from J-1, J-2, J-3, and Demo 1 (9/8/00 detonation); and continue groundwater sampling of the August LTM wells.

5. SUMMARY OF ACTIVITIES FOR DEMO 1

The regulatory agencies have provided comments on the draft FS Workplan for AO3 (including Demo 1), and the Guard's responses to comments are being discussed with the agencies. The regulatory agencies have provided comments on the draft technical memorandum for the Demo 1 response actions, and responses to comments are being reviewed by the agencies.

Validation of munitions survey results by excavation of selected anomalies was completed. Additional deep soil sampling, in accordance with the sampling plan in the draft FS Workplan, will be completed following documentation of the validation results. The Guard will prepare a plan to address the burn pit discovered in Demo 1.

Profile sample results for MW-114 installed near the toe of the RDX plume indicate that the extent is further south and west than depicted previously. Two additional wells are planned in this area to refine the plume shape. Drilling is expected to resume in several weeks.

TABLE 2
SAMPLING PROGRESS
09/3/2000-09/9/2000

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
0.G.0.00004.0.E	FIELDQC	09/05/2000	FIELDQC	0.00	0.00		
0.G.0.00005.0.E	FIELDQC	09/06/2000	FIELDQC	0.00	0.00		
0.G.0.00006.0.E	FIELDQC	09/06/2000	FIELDQC	0.00	0.00		
0.G.0.00009.0.T	FIELDQC	09/05/2000	FIELDQC	0.00	0.00		
0.G.0.00011.0.T	FIELDQC	09/06/2000	FIELDQC	0.00	0.00		
0.G.0.00012.0.T	FIELDQC	09/06/2000	FIELDQC	0.00	0.00		
G120DNT	FIELDQC	09/05/2000	FIELDQC	0.00	0.00		
G120DRE	FIELDQC	09/05/2000	FIELDQC	0.00	0.00		
G120DSE	FIELDQC	09/06/2000	FIELDQC	0.00	0.00		
G120DST	FIELDQC	09/06/2000	FIELDQC	0.00	0.00		
HCAPC2EAAE	FIELDQC	09/05/2000	FIELDQC	0.00	0.00		
S122DCE	FIELDQC	09/06/2000	FIELDQC	0.00	0.00		
S123DCE	FIELDQC	09/08/2000	FIELDQC	0.00	0.00		
S124DCT	FIELDQC	09/08/2000	FIELDQC	0.00	0.00		
W12SST	FIELDQC	09/07/2000	FIELDQC	0.00	0.00		
95-15C	95-15C	09/08/2000	GROUNDWATER	147.00	157.00	78.16	88.16
W13DDA	MW-13	09/07/2000	GROUNDWATER	220.00	225.00	141.70	146.70
W13SSA	MW-13	09/06/2000	GROUNDWATER	73.00	83.00	-5.50	4.50
W29SSA	MW-29	09/06/2000	GROUNDWATER	98.50	108.50	-6.60	3.40
W29SSA	MW-29	09/07/2000	GROUNDWATER	98.50	108.50	-6.57	3.43
W30SSA	MW-30	09/07/2000	GROUNDWATER	26.00	36.00	-4.67	5.33
W39SSA	MW-39	09/08/2000	GROUNDWATER	131.00	141.00	-9.37	0.63
W50SSA	MW-50	09/07/2000	GROUNDWATER	114.00	124.00	-6.80	3.20
W56DDA	MW-56	09/05/2000	GROUNDWATER	176.00	186.00	97.07	107.07
W56M1A	MW-56	09/05/2000	GROUNDWATER	156.00	166.00	77.07	87.07
W56M2A	MW-56	09/06/2000	GROUNDWATER	131.00	141.00	52.07	62.07
W56M2D	MW-56	09/06/2000	GROUNDWATER	131.00	141.00	52.07	62.07
W56M3A	MW-56	09/05/2000	GROUNDWATER	106.00	116.00	27.30	37.30
W56M3D	MW-56	09/05/2000	GROUNDWATER	106.00	116.00	27.30	37.30
W56SSA	MW-56	09/05/2000	GROUNDWATER	76.00	86.00	-2.60	7.40
W58SSA	MW-58	09/05/2000	GROUNDWATER	100.00	110.00	-4.50	5.50
W73SSA	MW-73	09/05/2000	GROUNDWATER	39.00	49.00	0.00	10.00
G120DNA	MW-120	09/05/2000	PROFILE	240.00	240.00	135.20	135.20
G120DOA	MW-120	09/05/2000	PROFILE	250.00	250.00	145.20	145.20
G120DPA	MW-120	09/05/2000	PROFILE	260.00	260.00	155.20	155.20
G120DQA	MW-120	09/05/2000	PROFILE	270.00	270.00	165.20	165.20
G120DRA	MW-120	09/05/2000	PROFILE	280.00	280.00	175.20	175.20
G120DSA	MW-120	09/06/2000	PROFILE	290.00	290.00	185.20	185.20
G120DTA	MW-120	09/06/2000	PROFILE	300.00	300.00	195.20	195.20
G120DUA	MW-120	09/06/2000	PROFILE	310.00	310.00	205.20	205.20
G120DVA	MW-120	09/06/2000	PROFILE	320.00	320.00	215.20	215.20
S122DCA	MW-122	09/06/2000	SOIL BORING	10.00	12.00		
S122DCD	MW-122	09/06/2000	SOIL BORING	10.00	12.00		

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
09/3/2000-09/9/2000

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
S122DDA	MW-122	09/06/2000	SOIL BORING	20.00	22.00		
S122DEA	MW-122	09/06/2000	SOIL BORING	30.00	32.00		
S122DFA	MW-122	09/06/2000	SOIL BORING	40.00	42.00		
S122DGA	MW-122	09/06/2000	SOIL BORING	50.00	52.00		
S122DHA	MW-122	09/06/2000	SOIL BORING	60.00	62.00		
S122DIA	MW-122	09/06/2000	SOIL BORING	70.00	72.00		
S122DJA	MW-122	09/06/2000	SOIL BORING	80.00	82.00		
S122DKA	MW-122	09/06/2000	SOIL BORING	90.00	92.00		
S123DCA	MW-123	09/08/2000	SOIL BORING	10.00	12.00		
S124DCA	MW-124	09/08/2000	SOIL BORING	10.00	12.00		
S124DCD	MW-124	09/08/2000	SOIL BORING	10.00	12.00		
S124DDA	MW-124	09/08/2000	SOIL BORING	20.00	22.00		
S124DEA	MW-124	09/08/2000	SOIL BORING	30.00	32.00		
S124DFA	MW-124	09/08/2000	SOIL BORING	40.00	42.00		
S124DGA	MW-124	09/08/2000	SOIL BORING	50.00	52.00		
1.F.0.00001.0.0	1.F.0.00001.0.0	09/05/2000	SOIL GRID				
1.F.0.00001.1.0	1.F.0.00001.1.0	09/05/2000	SOIL GRID				
1.F.0.00002.0.0	1.F.0.00002.0.0	09/05/2000	SOIL GRID				
1.F.0.00002.1.0	1.F.0.00002.1.0	09/05/2000	SOIL GRID				
1.F.0.00003.0.0	1.F.0.00003.0.0	09/05/2000	SOIL GRID				
1.F.0.00003.1.0	1.F.0.00003.1.0	09/05/2000	SOIL GRID				
1.F.0.00004.0.0	1.F.0.00004.0.0	09/05/2000	SOIL GRID				
1.F.0.00004.1.0	1.F.0.00004.1.0	09/05/2000	SOIL GRID				
1.F.0.00004.1.D	1.F.0.00004.1.0	09/05/2000	SOIL GRID				
1.F.0.00005.0.0	1.F.0.00005.0.0	09/05/2000	SOIL GRID				
1.F.0.00005.1.0	1.F.0.00005.1.0	09/05/2000	SOIL GRID				
1.F.0.00006.0.0	1.F.0.00006.0.0	09/06/2000	SOIL GRID				
1.F.0.00006.1.0	1.F.0.00006.1.0	09/06/2000	SOIL GRID				
1.F.0.00007.0.0	1.F.0.00007.0.0	09/06/2000	SOIL GRID				
1.F.0.00007.1.0	1.F.0.00007.1.0	09/06/2000	SOIL GRID				
1.F.0.00008.0.0	1.F.0.00008.0.0	09/06/2000	SOIL GRID				
1.F.0.00008.1.0	1.F.0.00008.1.0	09/06/2000	SOIL GRID				
1.F.0.00009.0.0	1.F.0.00009.0.0	09/06/2000	SOIL GRID				
1.F.0.00009.1.0	1.F.0.00009.1.0	09/06/2000	SOIL GRID				
1.F.0.00010.0.0	1.F.0.00010.0.0	09/06/2000	SOIL GRID				
1.F.0.00010.0.D	1.F.0.00010.0.0	09/06/2000	SOIL GRID				
1.F.0.00010.1.0	1.F.0.00010.1.0	09/06/2000	SOIL GRID				
1.F.0.00011.0.0	1.F.0.00011.0.0	09/06/2000	SOIL GRID				
1.F.0.00011.1.0	1.F.0.00011.1.0	09/06/2000	SOIL GRID				
1.F.0.00012.0.0	1.F.0.00012.0.0	09/06/2000	SOIL GRID				
1.F.0.00012.1.0	1.F.0.00012.1.0	09/06/2000	SOIL GRID				
1.F.0.00013.0.0	1.F.0.00013.0.0	09/06/2000	SOIL GRID				
1.F.0.00013.1.0	1.F.0.00013.1.0	09/06/2000	SOIL GRID				
1.F.0.00014.0.0	1.F.0.00014.0.0	09/06/2000	SOIL GRID				

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
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TABLE 2
SAMPLING PROGRESS
09/3/2000-09/9/2000

OGDEN_ID	LOCID OR WELL ID	DATE SAMPLED	SAMPLE TYPE	SBD	SED	BWTS	BWTE
1.F.0.00014.1.0	1.F.0.00014.1.0	09/06/2000	SOIL GRID				
1.F.0.00014.1.D	1.F.0.00014.1.0	09/06/2000	SOIL GRID				
1.F.0.00015.0.0	1.F.0.00015.0.0	09/06/2000	SOIL GRID				
1.F.0.00015.1.0	1.F.0.00015.1.0	09/06/2000	SOIL GRID				
1.F.0.00016.0.0	1.F.0.00016.0.0	09/06/2000	SOIL GRID				
1.F.0.00016.1.0	1.F.0.00016.1.0	09/06/2000	SOIL GRID				
DS101A1AAA	101A	09/05/2000	SOIL GRID	0.00	0.25		
DS101A2AAA	101A	09/05/2000	SOIL GRID	0.00	0.25		
DS101A3AAA	101A	09/05/2000	SOIL GRID	0.00	0.25		
DS101A4AAA	101A	09/05/2000	SOIL GRID	0.00	0.25		
HCAPC2EAA	APC2E	09/05/2000	SOIL GRID				

Profiling methods include: Volatiles and Explosives
Groundwater methods include: Volatiles, Semivolatiles, Explosives, Pesticides, Herbicides, Metals, and Wet Chemistry
Other Sample Types methods are variable
SBD = Sample Begin Depth, measured in feet bgs
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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 8/20/00-9/9/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
W37M3A	MW-37	08/31/2000	GROUNDWATER	130.00	140.00	8.03	18.03	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W37M2A	MW-37	08/31/2000	GROUNDWATER	145.00	155.00	22.84	32.84	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W40SSA	MW-40	09/01/2000	GROUNDWATER	115.50	125.50	0.00	10.00	8330N	2-AMINO-4,6-DINITROTOLUENE	YES
W40SSA	MW-40	09/01/2000	GROUNDWATER	115.50	125.50	0.00	10.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W40M1A	MW-40	09/01/2000	GROUNDWATER	132.50	142.50	11.00	21.00	8330N	HEXAHYDRO-1,3,5-TRINITRO-1,3	YES
W44SSA	MW-44	09/01/2000	GROUNDWATER	123.00	133.00	0.00	10.00	8330N	4-AMINO-2,6-DINITROTOLUENE	YES
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	8330N	1,3,5-TRINITROBENZENE	NO
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	8330N	2,6-DINITROTOLUENE	NO
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	8330N	2-NITROTOLUENE	NO
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	8330N	3-NITROTOLUENE	NO
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	8330N	4-NITROTOLUENE	NO
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	8330N	NITROGLYCERIN	NO
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	8330N	PICRIC ACID	NO
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	OC21V	1,2-DIBROMO-3-CHLOROPROPA	
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	OC21V	1,2-DICHLOROBENZENE	
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	OC21V	ACETONE	
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	OC21V	CHLOROETHANE	
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	OC21V	CHLOROMETHANE	
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	OC21V	ETHYLBENZENE	
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	OC21V	METHYLENE CHLORIDE	
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	OC21V	TOLUENE	
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	OC21V	TRANS-1,3-DICHLOROPROPENE	
W45SSA	MW-45	08/31/2000	GROUNDWATER	89.00	99.00	0.00	10.00	OC21V	XYLENES, TOTAL	
G118DMA	MW-118	08/30/2000	PROFILE	230.00	230.00	119.00	119.00	OC21V	ACETONE	
G118DMA	MW-118	08/30/2000	PROFILE	230.00	230.00	119.00	119.00	OC21V	CHLOROFORM	
G118DMA	MW-118	08/30/2000	PROFILE	230.00	230.00	119.00	119.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G118DNA	MW-118	08/30/2000	PROFILE	240.00	240.00	129.00	129.00	OC21V	ACETONE	
G118DNA	MW-118	08/30/2000	PROFILE	240.00	240.00	129.00	129.00	OC21V	CHLOROFORM	
G118DNA	MW-118	08/30/2000	PROFILE	240.00	240.00	129.00	129.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G118DOA	MW-118	08/30/2000	PROFILE	250.00	250.00	139.00	139.00	OC21V	ACETONE	
G118DOA	MW-118	08/30/2000	PROFILE	250.00	250.00	139.00	139.00	OC21V	METHYL ETHYL KETONE (2-BUT.	

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TABLE 3
DETECTED COMPOUNDS-UNVALIDATED
SAMPLES COLLECTED 8/20/00-9/9/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G118DPA	MW-118	08/31/2000	PROFILE	260.00	260.00	149.00	149.00	OC21V	ACETONE	
G118DPA	MW-118	08/31/2000	PROFILE	260.00	260.00	149.00	149.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G118DQA	MW-118	08/31/2000	PROFILE	270.00	270.00	159.00	159.00	OC21V	ACETONE	
G118DQA	MW-118	08/31/2000	PROFILE	270.00	270.00	159.00	159.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G118DRA	MW-118	08/31/2000	PROFILE	280.00	280.00	169.00	169.00	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G118DRA	MW-118	08/31/2000	PROFILE	280.00	280.00	169.00	169.00	OC21V	ACETONE	
G118DRA	MW-118	08/31/2000	PROFILE	280.00	280.00	169.00	169.00	OC21V	CHLOROFORM	
G118DRA	MW-118	08/31/2000	PROFILE	280.00	280.00	169.00	169.00	OC21V	METHYL ETHYL KETONE (2-BUT.	
G118DRA	MW-118	08/31/2000	PROFILE	280.00	280.00	169.00	169.00	OC21V	TOLUENE	
G120DAA	MW-120	08/30/2000	PROFILE	110.00	110.00	5.20	5.20	8330N	2,6-DINITROTOLUENE	NO
G120DAA	MW-120	08/30/2000	PROFILE	110.00	110.00	5.20	5.20	8330N	2-NITROTOLUENE	NO
G120DAA	MW-120	08/30/2000	PROFILE	110.00	110.00	5.20	5.20	8330N	3-NITROTOLUENE	NO
G120DAA	MW-120	08/30/2000	PROFILE	110.00	110.00	5.20	5.20	8330N	4-NITROTOLUENE	NO
G120DAA	MW-120	08/30/2000	PROFILE	110.00	110.00	5.20	5.20	OC21V	2-HEXANONE	
G120DAA	MW-120	08/30/2000	PROFILE	110.00	110.00	5.20	5.20	OC21V	ACETONE	
G120DAA	MW-120	08/30/2000	PROFILE	110.00	110.00	5.20	5.20	OC21V	CHLOROMETHANE	
G120DAA	MW-120	08/30/2000	PROFILE	110.00	110.00	5.20	5.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DAA	MW-120	08/30/2000	PROFILE	110.00	110.00	5.20	5.20	OC21V	METHYL ISOBUTYL KETONE (4-M	
G120DBA	MW-120	08/30/2000	PROFILE	120.00	120.00	15.20	15.20	8330N	2-AMINO-4,6-DINITROTOLUENE	NO
G120DBA	MW-120	08/30/2000	PROFILE	120.00	120.00	15.20	15.20	8330N	NITROGLYCERIN	NO
G120DBA	MW-120	08/30/2000	PROFILE	120.00	120.00	15.20	15.20	OC21V	ACETONE	
G120DBA	MW-120	08/30/2000	PROFILE	120.00	120.00	15.20	15.20	OC21V	CHLOROFORM	
G120DBA	MW-120	08/30/2000	PROFILE	120.00	120.00	15.20	15.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DCA	MW-120	08/30/2000	PROFILE	130.00	130.00	25.20	25.20	8330N	2,6-DINITROTOLUENE	NO
G120DCA	MW-120	08/30/2000	PROFILE	130.00	130.00	25.20	25.20	8330N	NITROGLYCERIN	NO
G120DCA	MW-120	08/30/2000	PROFILE	130.00	130.00	25.20	25.20	OC21V	2-HEXANONE	
G120DCA	MW-120	08/30/2000	PROFILE	130.00	130.00	25.20	25.20	OC21V	ACETONE	
G120DCA	MW-120	08/30/2000	PROFILE	130.00	130.00	25.20	25.20	OC21V	CHLOROFORM	
G120DCA	MW-120	08/30/2000	PROFILE	130.00	130.00	25.20	25.20	OC21V	CHLOROMETHANE	
G120DCA	MW-120	08/30/2000	PROFILE	130.00	130.00	25.20	25.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DCA	MW-120	08/30/2000	PROFILE	130.00	130.00	25.20	25.20	OC21V	METHYL ISOBUTYL KETONE (4-M	
G120DDA	MW-120	08/30/2000	PROFILE	140.00	140.00	35.20	35.20	8330N	NITROGLYCERIN	NO
G120DDA	MW-120	08/30/2000	PROFILE	140.00	140.00	35.20	35.20	8330N	PICRIC ACID	NO

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SAMPLES COLLECTED 8/20/00-9/9/00

OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G120DDA	MW-120	08/30/2000	PROFILE	140.00	140.00	35.20	35.20	OC21V	ACETONE	
G120DDA	MW-120	08/30/2000	PROFILE	140.00	140.00	35.20	35.20	OC21V	CHLOROFORM	
G120DDA	MW-120	08/30/2000	PROFILE	140.00	140.00	35.20	35.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DEA	MW-120	08/30/2000	PROFILE	150.00	150.00	45.20	45.20	OC21V	ACETONE	
G120DEA	MW-120	08/30/2000	PROFILE	150.00	150.00	45.20	45.20	OC21V	CHLOROFORM	
G120DEA	MW-120	08/30/2000	PROFILE	150.00	150.00	45.20	45.20	OC21V	CHLOROMETHANE	
G120DEA	MW-120	08/30/2000	PROFILE	150.00	150.00	45.20	45.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DFA	MW-120	08/30/2000	PROFILE	160.00	160.00	55.20	55.20	8330N	NITROGLYCERIN	NO
G120DFA	MW-120	08/30/2000	PROFILE	160.00	160.00	55.20	55.20	OC21V	2-HEXANONE	
G120DFA	MW-120	08/30/2000	PROFILE	160.00	160.00	55.20	55.20	OC21V	ACETONE	
G120DFA	MW-120	08/30/2000	PROFILE	160.00	160.00	55.20	55.20	OC21V	CHLOROETHANE	
G120DFA	MW-120	08/30/2000	PROFILE	160.00	160.00	55.20	55.20	OC21V	CHLOROMETHANE	
G120DFA	MW-120	08/30/2000	PROFILE	160.00	160.00	55.20	55.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DGA	MW-120	08/31/2000	PROFILE	170.00	170.00	65.20	65.20	OC21V	1,4-DICHLOROBENZENE	
G120DGA	MW-120	08/31/2000	PROFILE	170.00	170.00	65.20	65.20	OC21V	2-HEXANONE	
G120DGA	MW-120	08/31/2000	PROFILE	170.00	170.00	65.20	65.20	OC21V	ACETONE	
G120DGA	MW-120	08/31/2000	PROFILE	170.00	170.00	65.20	65.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DHA	MW-120	08/31/2000	PROFILE	180.00	180.00	75.20	75.20	8330N	2,6-DINITROTOLUENE	YES
G120DHA	MW-120	08/31/2000	PROFILE	180.00	180.00	75.20	75.20	8330N	4-AMINO-2,6-DINITROTOLUENE	NO
G120DHA	MW-120	08/31/2000	PROFILE	180.00	180.00	75.20	75.20	8330N	PENTAERYTHRITOL TETRANITR	NO
G120DHA	MW-120	08/31/2000	PROFILE	180.00	180.00	75.20	75.20	8330N	PICRIC ACID	NO
G120DHA	MW-120	08/31/2000	PROFILE	180.00	180.00	75.20	75.20	OC21V	2-HEXANONE	
G120DHA	MW-120	08/31/2000	PROFILE	180.00	180.00	75.20	75.20	OC21V	ACETONE	
G120DHA	MW-120	08/31/2000	PROFILE	180.00	180.00	75.20	75.20	OC21V	CHLOROFORM	
G120DHA	MW-120	08/31/2000	PROFILE	180.00	180.00	75.20	75.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DIA	MW-120	08/31/2000	PROFILE	190.00	190.00	85.20	85.20	8330N	2,6-DINITROTOLUENE	YES
G120DIA	MW-120	08/31/2000	PROFILE	190.00	190.00	85.20	85.20	8330N	PENTAERYTHRITOL TETRANITR	NO
G120DIA	MW-120	08/31/2000	PROFILE	190.00	190.00	85.20	85.20	8330N	PICRIC ACID	NO
G120DIA	MW-120	08/31/2000	PROFILE	190.00	190.00	85.20	85.20	OC21V	2-HEXANONE	
G120DIA	MW-120	08/31/2000	PROFILE	190.00	190.00	85.20	85.20	OC21V	ACETONE	
G120DIA	MW-120	08/31/2000	PROFILE	190.00	190.00	85.20	85.20	OC21V	CHLOROFORM	
G120DIA	MW-120	08/31/2000	PROFILE	190.00	190.00	85.20	85.20	OC21V	CHLOROMETHANE	
G120DIA	MW-120	08/31/2000	PROFILE	190.00	190.00	85.20	85.20	OC21V	METHYL ETHYL KETONE (2-BUT.	

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OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G120DJA	MW-120	08/31/2000	PROFILE	200.00	200.00	95.20	95.20	8330N	2,6-DINITROTOLUENE	YES
G120DJA	MW-120	08/31/2000	PROFILE	200.00	200.00	95.20	95.20	8330N	PENTAERYTHRITOL TETRANITR	NO
G120DJA	MW-120	08/31/2000	PROFILE	200.00	200.00	95.20	95.20	OC21V	2-HEXANONE	
G120DJA	MW-120	08/31/2000	PROFILE	200.00	200.00	95.20	95.20	OC21V	ACETONE	
G120DJA	MW-120	08/31/2000	PROFILE	200.00	200.00	95.20	95.20	OC21V	CHLOROFORM	
G120DJA	MW-120	08/31/2000	PROFILE	200.00	200.00	95.20	95.20	OC21V	CHLOROMETHANE	
G120DJA	MW-120	08/31/2000	PROFILE	200.00	200.00	95.20	95.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DKA	MW-120	08/31/2000	PROFILE	210.00	210.00	105.20	105.20	8330N	2,6-DINITROTOLUENE	YES
G120DKA	MW-120	08/31/2000	PROFILE	210.00	210.00	105.20	105.20	8330N	PENTAERYTHRITOL TETRANITR	NO
G120DKA	MW-120	08/31/2000	PROFILE	210.00	210.00	105.20	105.20	OC21V	ACETONE	
G120DKA	MW-120	08/31/2000	PROFILE	210.00	210.00	105.20	105.20	OC21V	CHLOROFORM	
G120DKA	MW-120	08/31/2000	PROFILE	210.00	210.00	105.20	105.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DLA	MW-120	09/01/2000	PROFILE	220.00	220.00	115.20	115.20	OC21V	ACETONE	
G120DLA	MW-120	09/01/2000	PROFILE	220.00	220.00	115.20	115.20	OC21V	CHLOROFORM	
G120DLA	MW-120	09/01/2000	PROFILE	220.00	220.00	115.20	115.20	OC21V	CHLOROMETHANE	
G120DLA	MW-120	09/01/2000	PROFILE	220.00	220.00	115.20	115.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DMA	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	8330N	2,4,6-TRINITROTOLUENE	NO
G120DMA	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	8330N	2,6-DINITROTOLUENE	YES
G120DMA	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	2-HEXANONE	
G120DMA	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	ACETONE	
G120DMA	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	CHLOROFORM	
G120DMA	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	CHLOROMETHANE	
G120DMA	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DMD	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	2-HEXANONE	
G120DMD	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	ACETONE	
G120DMD	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	CHLOROETHANE	
G120DMD	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	CHLOROFORM	
G120DMD	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	CHLOROMETHANE	
G120DMD	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DMD	MW-120	09/01/2000	PROFILE	230.00	230.00	125.20	125.20	OC21V	METHYL ISOBUTYL KETONE (4-M	
G120DNA	MW-120	09/05/2000	PROFILE	240.00	240.00	135.20	135.20	OC21V	ACETONE	
G120DNA	MW-120	09/05/2000	PROFILE	240.00	240.00	135.20	135.20	OC21V	CHLOROFORM	
G120DNA	MW-120	09/05/2000	PROFILE	240.00	240.00	135.20	135.20	OC21V	CHLOROMETHANE	

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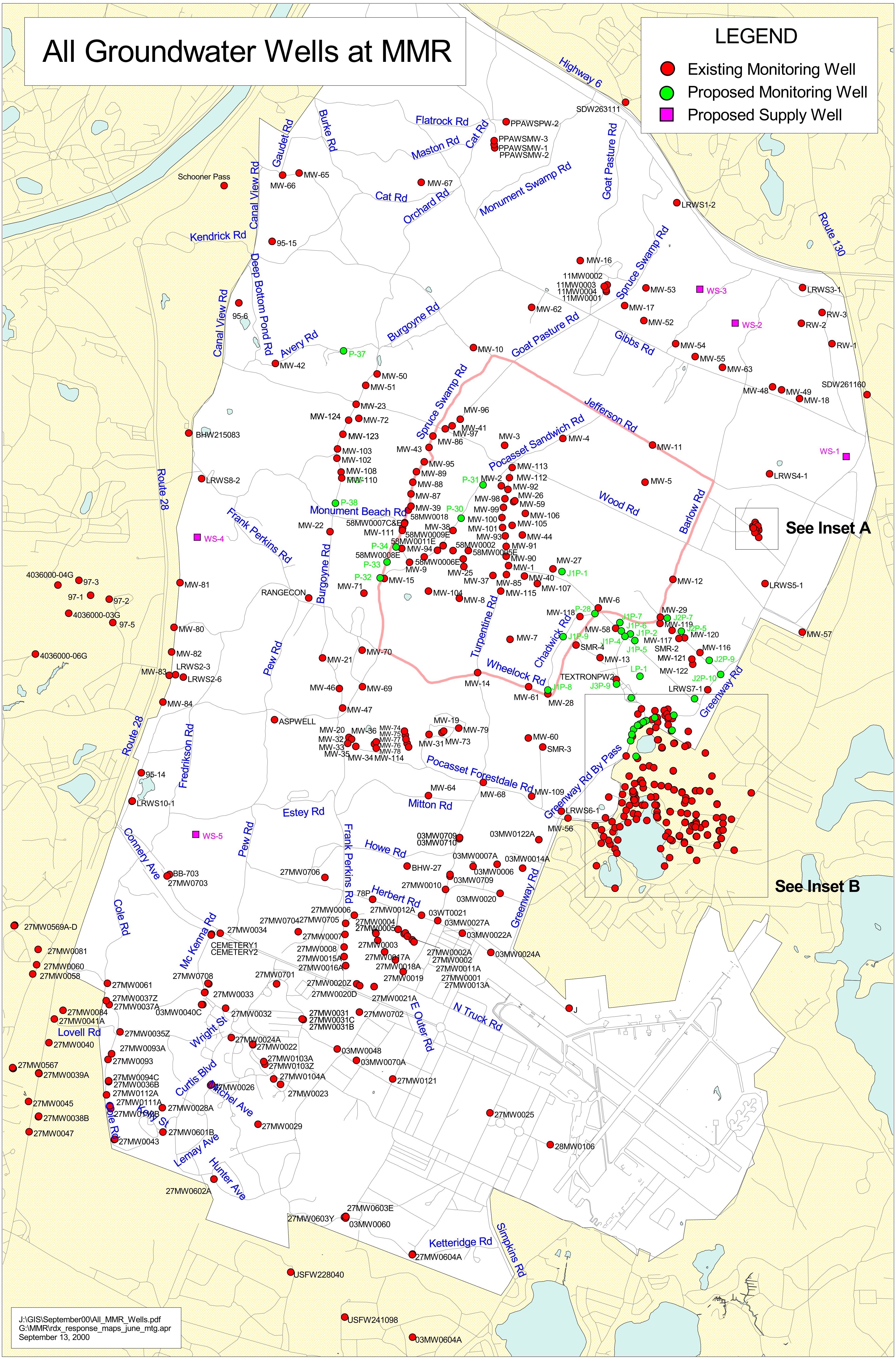
OGDEN_ID	LOCID OR WELL ID	SAMPLED	SAMP_TYPE	SBD	SED	BWTS	BWTE	METHOD	OGDEN_ANALYTE	PDA
G120DNA	MW-120	09/05/2000	PROFILE	240.00	240.00	135.20	135.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DOA	MW-120	09/05/2000	PROFILE	250.00	250.00	145.20	145.20	OC21V	ACETONE	
G120DOA	MW-120	09/05/2000	PROFILE	250.00	250.00	145.20	145.20	OC21V	CHLOROFORM	
G120DPA	MW-120	09/05/2000	PROFILE	260.00	260.00	155.20	155.20	OC21V	2-HEXANONE	
G120DPA	MW-120	09/05/2000	PROFILE	260.00	260.00	155.20	155.20	OC21V	ACETONE	
G120DPA	MW-120	09/05/2000	PROFILE	260.00	260.00	155.20	155.20	OC21V	BENZENE	
G120DPA	MW-120	09/05/2000	PROFILE	260.00	260.00	155.20	155.20	OC21V	CHLOROMETHANE	
G120DPA	MW-120	09/05/2000	PROFILE	260.00	260.00	155.20	155.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DQA	MW-120	09/05/2000	PROFILE	270.00	270.00	165.20	165.20	OC21V	ACETONE	
G120DQA	MW-120	09/05/2000	PROFILE	270.00	270.00	165.20	165.20	OC21V	BENZENE	
G120DQA	MW-120	09/05/2000	PROFILE	270.00	270.00	165.20	165.20	OC21V	CHLOROMETHANE	
G120DQA	MW-120	09/05/2000	PROFILE	270.00	270.00	165.20	165.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DRA	MW-120	09/05/2000	PROFILE	280.00	280.00	175.20	175.20	OC21V	ACETONE	
G120DRA	MW-120	09/05/2000	PROFILE	280.00	280.00	175.20	175.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DSA	MW-120	09/06/2000	PROFILE	290.00	290.00	185.20	185.20	8330N	PICRIC ACID	NO
G120DSA	MW-120	09/06/2000	PROFILE	290.00	290.00	185.20	185.20	OC21V	ACETONE	
G120DSA	MW-120	09/06/2000	PROFILE	290.00	290.00	185.20	185.20	OC21V	CHLOROFORM	
G120DSA	MW-120	09/06/2000	PROFILE	290.00	290.00	185.20	185.20	OC21V	CHLOROMETHANE	
G120DSA	MW-120	09/06/2000	PROFILE	290.00	290.00	185.20	185.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DTA	MW-120	09/06/2000	PROFILE	300.00	300.00	195.20	195.20	OC21V	ACETONE	
G120DTA	MW-120	09/06/2000	PROFILE	300.00	300.00	195.20	195.20	OC21V	CHLOROFORM	
G120DTA	MW-120	09/06/2000	PROFILE	300.00	300.00	195.20	195.20	OC21V	CHLOROMETHANE	
G120DTA	MW-120	09/06/2000	PROFILE	300.00	300.00	195.20	195.20	OC21V	METHYL ETHYL KETONE (2-BUT.	
G120DUA	MW-120	09/06/2000	PROFILE	310.00	310.00	205.20	205.20	OC21V	ACETONE	
G120DUA	MW-120	09/06/2000	PROFILE	310.00	310.00	205.20	205.20	OC21V	CHLOROFORM	
G120DVA	MW-120	09/06/2000	PROFILE	320.00	320.00	215.20	215.20	OC21V	ACETONE	
G120DVA	MW-120	09/06/2000	PROFILE	320.00	320.00	215.20	215.20	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


All Groundwater Wells at MMR
LEGEND
Existing Monitoring Well
Proposed Monitoring Well
Proposed Supply Well
See Inset A
See Inset B
Highway 6
Route 130
Route 28
Flatrock Rd
Burke Rd
Gaudet Rd
Maston Rd
Cat Rd
Cat Rd
Orchard Rd
Monument Swamp Rd
Goat Pasture Rd
Goat Pasture Rd
Canal View Rd
Canal View Rd
Kendrick Rd
Deep Bottom Pond Rd
Avery Rd
Burgoyne Rd
Burgoyne Rd
Spruce Swamp Rd
Spruce Swamp Rd
Gibbs Rd
Jefferson Rd
Pocasset Sandwich Rd
Wood Rd
Barlow Rd
Monument Beach Rd
Frank Perkins Rd
Frank Perkins Rd
Turpentine Rd
Chadwick Rd
Wheelock Rd
Greenway Rd
Greenway Rd
Greenway Rd By Pass
Pew Rd
Pew Rd
Fredrikson Rd
Pocasset Forestdale Rd
Mitton Rd
Estey Rd
Howe Rd
Herbert Rd
Connery Ave
Cole Rd
Mc Kenna Rd
Lovell Rd
Wright St
Curtis Blvd
Mitchel Ave
Kelly St
Ople Rd
Lemay Ave
Hunter Ave
E Outer Rd
N Truck Rd
Ketteridge Rd
Simpkins Rd
SDW263111
PPAWSPW-2
PPAWSMW-3
PPAWSMW-1
PPAWSMW-2
Schooner Pass
MW-66
MW-65
MW-67
LRWS1-2
95-15
MW-16
11MW0002
11MW0003
11MW0004
11MW0001
MW-53
WS-3
LRWS3-1
RW-3
RW-2
RW-1
WS-2
MW-62
MW-17
MW-52
95-6
MW-10
MW-54
MW-55
MW-63
P-37
MW-42
MW-50
MW-51
MW-48
MW-49
MW-18
SDW261160
MW-23
MW-124
MW-72
MW-96
MW-41
MW-97
MW-86
MW-123
MW-3
MW-4
MW-11
BHW215083
MW-43
MW-103
MW-102
MW-108
MW-110
MW-95
MW-89
MW-88
MW-113
MW-112
MW-92
MW-2
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MW-5
WS-1
LRWS4-1
LRWS8-2
MW-87
MW-26
MW-59
MW-98
MW-99
P-38
MW-39
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P-30
MW-100
MW-106
MW-105
MW-101
MW-22
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MW-111
MW-38
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MW-93
MW-44
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58MW0002
MW-91
P-34
MW-94
58MW0005E
WS-4
58MW0008E
MW-90
P-33
58MW0006E
MW-27
MW-1
J1P-1
MW-9
MW-25
4036000-04G
97-3
P-32
MW-15
MW-37
MW-85
MW-40
MW-107
MW-12
LRWS5-1
MW-81
MW-71
RANGECON
MW-104
MW-115
97-1
97-2
MW-8
MW-6
4036000-03G
97-5
MW-118
P-28
J1P-7
MW-29
J2P-7
J1P-6
MW-119
J2P-5
MW-120
MW-57
MW-80
MW-58
J1P-2
MW-7
J1P-9
J1P-4
MW-117
J1P-5
SMR-4
SMR-2
MW-116
4036000-06G
MW-82
MW-70
MW-13
MW-121
J2P-9
LRWS2-3
MW-21
MW-122
LP-1
MW-83
LRWS2-6
TEXTRONPW2
J2P-10
MW-14
J3P-9
LRWS7-1
MW-46
MW-69
J1P-8
MW-61
MW-28
MW-84
MW-47
ASPWELL
MW-19
MW-79
MW-20
MW-36
MW-74
MW-75
MW-77
MW-76
MW-78
MW-32
MW-33
MW-35
MW-31
MW-73
MW-60
SMR-3
MW-34
MW-114
95-14
MW-64
MW-68
MW-109
LRWS10-1
LRWS6-1
MW-56
WS-5
03MW0709
03MW0710
03MW0122A
BHW-27
03MW0007A
03MW0014A
03MW0006
BB-703
27MW0703
27MW0706
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78P
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27MW0012A
03WT0021
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27MW0705
27MW0004
03MW0027A
27MW0005
27MW0569A-D
27MW0034
27MW0007
03MW0022A
CEMETERY1
CEMETERY2
27MW0003
27MW0081
27MW0008
27MW0002A
03MW0024A
27MW0015A
27MW0017A
27MW0002
27MW0060
27MW0016A
27MW0018A
27MW0011A
27MW0058
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27MW0013A
27MW0033
27MW0020D
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27MW0032
J
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27MW0031C
27MW0031B
27MW0702
27MW0035Z
27MW0040
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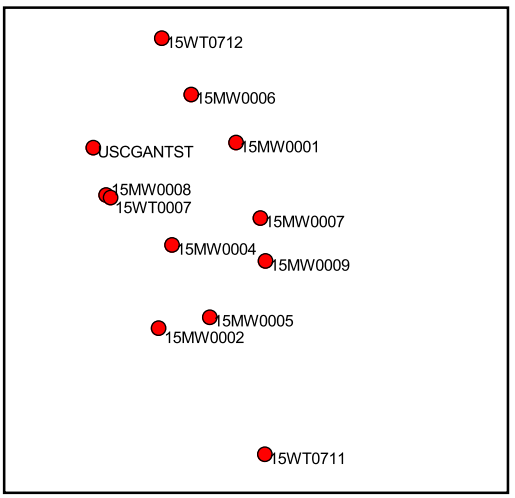
September 13, 2000

All Groundwater Wells at MMR - Insets



Inset A

Inset B

J3P-1
J1P-3
TEXTRONPW-1
90MW0029B
90LWA0007
90WT0006
MW-45
MW-30
LP-3
90WT0003
LP-4
90MW0013
90MW0051
90MW0021
90WT0019
90LWA0002
90WT0013
90WT0004
J3P-5
90WT0015
J3P-10
90MW0014
90LWA0003
J3P-4
J3P-7
90MW0061
LP-2
J3P-3
90MW0038
90MW0041
90MW0037
J3P-6
90MW0022
90MW0019
J3P-2
Greenway Rd
90MW0034
90MW0036
90MW0001
90MW0062
90MW0052
90WT0005
J3P-8
90MW0004
90MW0070
90MW0063
90MW0071
90MW0005
Greenway Rd By Pass
90MW0054
96GMW0058
90MW0035
90MW0072A
90MW0080
RS0007RACC
DP-6
96MP0059B
90MW0006
90MW0012
90MW0044
90PZ0211
90MW0009
90MW0018
90MW0060
Raccoon Ln
90PZ0209
90MW0033
90WT0010
RS0005RACC
RS0008RACC
90PZ0201
90PZ0203
90MW0010
SAPWSSMR1
90PZ0202
90PZ0204
90MW0020
90PZ0207
90PZ0205
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90MW0059
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90PZ0208
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RS0034ARND
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RS0024ARND
RS0036ARND
ECPZSNP01
90MW0042
90WT0008
ECMWSNP03
ECPZSNP05B
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RS0015ARND
90MW0065
RS0018OSNK
ECPZSNP12
ECPZSNP09B
90MW0040
90MW0P02
90MW0079A
90MW0087A
Arnold Rd
ECPZSNP06D
90MW0050
90MW0P06
90MW0053
RS0003ARND
90MW0P06A
96MW0002
90MW0088A
RS0014ARND
90MW0082A
Old Snake Pond Rd
RS0010ARND
ECPZSNP02
90MW0078
90MW0077
RS0012OSNK
ECPZSNP17
90MW0047
90MW0068
RS0006OSNK
90MW0056
90MW0083
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96MW0006A
90MW0090A
RS0004OSNK
RS0011OSNK
RS0002OSNK
ECPZSNP16
90MW0091A
96MW0012
ECPZSNP02B
To Sndwch. Gate
RS0021GRAC
96MW0020
ECPZWK01
ECPZSNP15
Route 130
4261000-05G

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September 13, 2000