WEEKLY PROGRESS UPDATE
FOR SEPTEMBER 19-SEPTEMBER 25, 1997

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 September 19 to September 25, 1997.

1. SUMMARY OF ACTIONS TAKEN

UXO Survey

No UXO surveys were performed this week.

Drilling

Ogden and D.L. Maher (the drilling subcontractor) continued drilling work on the site. TRC (EPA's oversight contractor) and the U.G. Geological Survey were present for oversight of drilling activities. As of September 25 the sonic rig was installing MW-20 at a depth of 95-105 feet, one of the Barber rigs was preparing to drill MW-16, and the other Barber rig was under repair. Table 2 presents a summary of wells completed to date.

Sampling and Analysis

Soil and groundwater samples have been analyzed or submitted for borings that have been drilled to date. Also, hand auger samples have been collected from 0-6 inches at future drilling locations in the Impact Area, and at the areas of potential concern identified in the Field Sampling Plans. The types of samples being analyzed, dates of submittal, and preliminary results are summarized in Table 1. All results in Table 1 are unvalidated. Concentrations of specific compounds will be presented in tabular form after the results for all samples in a sample data group are available and have been validated.

Explosive Compounds --

Explosive compounds have been detected in soil samples collected from 0-6 inches at MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW- 7, MW-8, MW-9, MW-12, MW-15, MW-19, MW-25, MW-26, MW-27, MW-28, and MW-29, using the screening methods. Explosives were also detected in the 10-12 foot interval from MW-1 using the screening method. No explosives have been detected from the confirmatory Method 8330 analysis of 0-6 inch samples from MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-9, MW-12, MW-15, MW-26, MW-27, MW-28, and MW-29, and of the 10-12 foot interval from MW-1. The results from the 8330

analysis of 0-6 inch samples from MW-8, MW-19, and MW-25 confirm that explosive compounds are present in surface soil at these locations. No explosive compounds have been detected in deeper soil samples analyzed to date by screening or confirmatory 8330 methods.

Explosive compounds have been detected in composite surface soil samples from 0-6 inches in 8 grids from Area 1, 11 grids from Area 3, 12 grids from Area 2, 4 grids from Area 9, 5 grids from Area 10, and 5 grids from Area 14 using the screening method. Method 8330 analysis has been initiated on the screening hits.

RDX was reported at an estimated concentration below the detection limit by the screening method in a groundwater sample collected from 160 feet bgs in MW-17. When this sample was analyzed using Method 8330 no explosive compounds were detected. Explosive compounds were detected using Method 8330 in a groundwater sample collected from 44 feet bgs in MW-18. RDX was reported at an estimated concentration below the detection limit by the screening method in a groundwater sample collected from 176 feet bgs in MW-18. When this sample was analyzed using Method 8330 no explosive compounds were detected. RDX was detected in groundwater from 120, 130, 162, 202, 222, 232, and 252 feet bgs in MW-1 by screening methods. Explosive compounds were detected using Method 8330 in groundwater samples collected at 120, 130, 140, 150, 162, 182, 202, 212, 222, and 232 feet bgs in MW-1. In MW-15, explosive compounds were detected in groundwater samples from 110, 120, 130, 140, 150, and 160 feet bgs using Method 8330.

Inorganic Compounds --

Inorganic compounds have been detected in all soil samples analyzed to date. There are a large number of detected compounds and many of these are expected to be naturally occurring. The identification of compounds exceeding background concentrations will be reported after determination of background levels.

Other Analytes --

A number of "other" analytes have been detected in soil and groundwater samples as indicated in Table 1, including VOC, SVOC, pesticides, and herbicides. Some of these compounds may have background concentrations; i.e., they may result from anthropogenic or natural sources which are not related to activities at the Impact Area and Training Ranges. Some of these compounds have been detected in laboratory blanks, which suggests that they may not be present in all of the samples indicated. Many of these compounds have been reported at estimated concentrations below the laboratory reporting limit. The quantity of data for these analytes does not allow a detailed description of the occurrence of each analyte for this progress update report. Ogden is currently importing these data into a database to allow some summary information on

the concentrations of each compound to be developed, to be presented in a future progress update report.

Water Level Measurements

Water level recording devices that were installed in LRWS-2, CS-19 (MW-7E), and CS-10 (AEHA- 11) continue to record water levels. The next synoptic round of water level measurements is scheduled for next week.

Plans and Reports

NGB is preparing Field Sampling Plans for the remaining areas identified in the Action Plan.

2. SUMMARY OF DATA RECEIVED

Laboratory results for soil and groundwater samples were received during the week and are summarized in Section 1 above. Concentrations for specific compounds will be presented in tabular form after the results for all samples in a sample data group are available and have been validated. The types of samples being analyzed, dates of submittal, and preliminary results are summarized in Table 1. All results in Table 1 are unvalidated.

3. DELIVERABLES SUBMITTED

Deliverables submitted during the reporting period included the following:

Weekly Progress Update (September 12 - September 18)	September 19, 1997
Draft Field Sampling Plan for Gun and Mortar Positions	September 19, 1997

4. SCHEDULED ACTIONS

The Barber drill rig is expected to start drilling the boring at location MW-16. The Sonic rig is expected to continue drilling the shallow boring at location MW-20, and then will move to MW-23 to install intermediate wells at depths of approximately 175 and 230 feet bgs. Groundwater sampling is expected to start at monitoring well MW-1. Quarterly water level measurements will be collected at selected monitoring wells.

Table 1
Summary of Preliminary Analytical Results (not validated)
As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
MW-14	Soil: 0.5 feet	ND[S]	Inorganics	ND
	Soil: 2 feet			
	Soil: 10 feet	ND[S]	Inorganics	Ace TCB BEHP DIHP
	Soil: 20 feet	ND[S]	Inorganics	
	Soil: 30, 40, 50, 60, 70, 80, 90 feet	ND[S]	Inorganics	
MW-23	Soil: 40 feet			Ace TCB BEHP
	Soil: 70 feet			Ace TCB
	Groundwater: 140, 150, 160, 170, 180, 190, 200, 210, 220	ND[S]		ND (V)
	Groundwater: 230	ND[S]		Tol (V*)
	Groundwater: 240, 250, 260	ND[S]		THM (V*)
	Groundwater: 270, 290	ND[S]		ND (V)
MW-28	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	ND
	Soil: 2 feet	ND[S] **ND**		
	Soil: 10 feet	ND[S]	Inorganics	ND
	Soil: 20 feet	ND[S]	Inorganics	
	Soil: 30, 40, 50, 60, 70, 80, 90 feet		Inorganics	
	Soil: 100 feet		Inorganics	ND

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Summary of Preliminary Analytical Results (not validated)
As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
MW-7	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	ND
	Soil: 2 feet			
	Soil: 10 feet	ND[S]	Inorganics	ND
	Soil: 20 feet	ND[S]	Inorganics	
	Soil: 30, 40, 50, 60, 70, 80, 90, 100 feet		Inorganics	
	Groundwater: 130 feet	ND[S]		THM (V) MP Hex Ace But
	Groundwater: 140 feet	ND[S]		ND (V)
	Groundwater: 150, 160 feet	ND[S]		THM (V) Ace
	Groundwater: 165, 175 feet	ND[S]		Ace (V)
	Groundwater: 185 feet	ND[S]		ND (V)
	Groundwater: 195, 205, 215 feet	ND[S]		THM (V) Ace
	Groundwater: 225 feet	ND[S]		Ace (V)
	Groundwater: 235, 245 feet	ND[S]		Ace (V) CD
	Groundwater: 255, 265, 275 feet	ND[S]		ND (V)
	Groundwater: 285, 295 feet	ND[S]		THM (V)
	Groundwater: 310, 320, 330 feet	ND[S]		ND (V)
	Groundwater: 340 feet	ND[S]		Ace (V) CD But

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As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
	Groundwater: 347 feet	ND[S]		ND (V)
MW-29	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	Ace
	Soil: 2 feet			
	Soil: 10 feet	ND[S] **ND**	Inorganics	Ace
	Soil: 20 feet	ND[S]	Inorganics	
	Soil: 30 feet		Inorganics	
	Soil: 40 feet		Inorganics	Ace
	Soil: 50, 60, 70, 80, 90, 100 feet		Inorganics	
MW-10	Soil: 140 feet			Ace (V*)
	Groundwater: 185, 195, 205 feet	ND[S]		THM (V)
	Groundwater: 285, 295 feet	ND[S]		ND (V)
	Groundwater: 305, 315, 330 feet	ND[S]		THM (V)
	Groundwater: 355 feet	ND[S]		ND (V)
MW-12	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	Ace Phe bBHC dBHC
	Soil: 2 feet			
	Soil: 10 feet	ND[S]	Inorganics	Ace Phe bBHC dBHC gBHC DIEP
	Soil: 20 feet	ND[S]	Inorganics	

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Boring	Sample Type	Explosives	Inorganics	Other Analytes
	Soil: 30, 40, 50, 60, 70, 80, 90, 100 feet		Inorganics	
MW-11	Soil: 0.5 feet	ND[S]	Inorganics	Ace
	Soil: 2 feet			
	Soil: 10 feet	ND[S]	Inorganics	Ace
	Soil: 20 feet	ND[S]	Inorganics	ND
	Soil: 30 feet		Inorganics	Ace BEHP But
	Soil: 40 feet		Inorganics	ND
	Soil: 50 feet		Inorganics	Ace BEHP
	Soil: 60, 70 feet		Inorganics	Ace
	Soil: 80 feet		Inorganics	ND
	Soil: 90, 100, 110 feet		Inorganics	Ace
	Soil: 120 feet		Inorganics	Ace THM
	Soil: 130 feet		Inorganics	Ace DCBA
MW-17	Soil: 3.5 feet			Ace
	Soil: 17.5 feet			Ace TCB DCB
	Soil: 53 feet			Ace BEHP bBHC
	Groundwater: 120, 130, 140, 150 feet	ND[S]		ND (V)

Table 1
Summary of Preliminary Analytical Results (not validated)
As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
	Groundwater: 160 feet	RDX[S] **ND**		ND (V)
	Groundwater: 170, 180, 190 feet	ND[S]		ND (V)
	Groundwater: 200 feet	ND[S]		Ace (V) THM
	Groundwater: 210, 220, 230, 240, 250, 260, 270, 280, 290, 320 feet	ND[S]		THM (V)
	Groundwater: 330 feet	ND[S]		ND (V)
MW-4	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	Ace MCPA BEHP DDE DDT
	Soil: 2 feet			
	Soil: 10 feet	ND[S]	Inorganics	ND
	Soil: 20 feet	ND[S]	Inorganics	
	Soil: 30, 40, 50 feet		Inorganics	ND
	Soil: 60 feet		Inorganics	bBHC dBHC
	Soil: 70, 80, 90, 100 feet		Inorganics	
	Soil: 110, 120, 130 feet		Inorganics	ND
	Soil: 140 feet		Inorganics	
MW-1	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	Ace DIEP
	Soil: 2 feet			

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As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
	Soil: 10 feet	RDX/HMX[S] **ND**	Inorganics	Ace DIEP DIHP BEHP
	Soil: 20 feet	ND[S]	Inorganics	
	Soil: 30, 40 feet	**ND**	Inorganics	
	Soil: 50 feet			
	Soil: 60, 70, 80, 90, 100, 110, 120 feet	**ND**	Inorganics	
	Groundwater: 120 feet	RDX[S] **EXP**		Ace (V) But MP Hex
	Groundwater: 130 feet	RDX[S] **EXP**		Ace (V) But MP Hex MeCl
	Groundwater: 140 feet	ND[S] **EXP**		Ace (V) But Benz
	Groundwater: 150 feet	ND[S] **EXP**		Ace (V) But Hex
	Groundwater: 162 feet	RDX[S] **EXP**		Ace (V) But
	Groundwater: 182 feet	**EXP**		Ace (V) THM
	Groundwater: 192 feet	**ND**		Ace (V) But
	Groundwater: 202 feet	RDX[S] **EXP**		Ace (V) THM

Table 1
Summary of Preliminary Analytical Results (not validated)
As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
	Groundwater: 212 feet	ND[S] **EXP**		Ace (V) THM
	Groundwater: 222, 232 feet	RDX[S] **EXP**		9/2 (V)
	Groundwater: 252 feet	**EXP**		9/10 (V)
	Groundwater: 262 feet	**EXP**		9/10 (V)
	Groundwater: 272, 282, 292 feet	**ND**		9/10 (V)
MW-3	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	Ace PCP
MW-5	Soil: 0.5 feet	TNT/DNT[S] RDX/HMX[S] **ND**	Inorganics	Ace BEHP
MW-6	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	Ace BEHP
	Soil: 2 feet			
	Soil: 10, 25	ND[S] **9/24-9/25**	9/24-9/25	
	Soil: 35, 48, 55, 67, 75, 87, 94, 107, 114 feet	**9/24-9/25**	9/24-9/25	
	Groundwater: 109 feet	9/25		9/25 (V)
MW-16	Soil: 0.5 feet	ND[S]	Inorganics	Ace
	Soil: 2 feet			dBHC
MW-26	Soil: 0.5 feet	TNT/DNT[S] RDX/HMX[S] **ND**	Inorganics	Ace DIEP DDT
MW-27	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	Ace

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Boring	Sample Type	Explosives	Inorganics	Other Analytes
MW-2	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	Ace TCE MeCl DDT DDE
MW-8	Soil: 0.5 feet	TNT/DNT[S] **EXP**	Inorganics	Ace
MW-9	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	Ace MCPA MeCl TCE
	Soil: 2 feet			
	Soil: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 120 feet	9/25-9/26[S]	9/25-9/26	
	Groundwater: 120 feet	**9/26**		9/26(V)
MW-15	Soil: 0.5 feet	TNT/DNT[S] **ND**	Inorganics	Ace MCPA DCBA MeCl BEHP
	Soil: 2 feet			
	Soil: 10, 20 feet	ND[S]	8/29	8/29
	Soil: 30 feet		8/29	8/29
	Soil: 50, 60, 70 feet	ND[S]	8/29	
	Soil: 80, 90, 100 feet	**9/5**	9/2	
	Groundwater: 110, 120 feet	ND[S] **EXP**		ND (V)

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Boring	Sample Type	Explosives	Inorganics	Other Analytes
	Groundwater: 130 feet	ND[S] **EXP**		Ace (V) 1,1-DCE TCE Benz Tol CB
	Groundwater: 140 feet	ND[S] **EXP**		Ace (V) 1,1-DCE Benz Tol CB
	Groundwater: 150, 160 feet	ND[S] **EXP**		ND (V)
	Groundwater: 170, 180, 190, 200, 210 feet	ND[S] **ND**		ND (V)
	Groundwater: 220, 230, 240 feet	ND[S] **ND**		THM (V)
	Groundwater: 250, 260, 270 feet	ND[S] **ND**		ND (V)
	Groundwater: 280, 290, 300, 310 feet	**9/11-12**		9/11-12 (V)
	Groundwater: 320, 330, 340 feet	**9/13**		9/13(V)
MW-19	Soil: 0.5 feet	RDX/HMX[S] **EXP**	Inorganics	Ace PCP TCE Hept Endo MCPP Die Bent Nn HCB gBHC

Table 1
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As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
MW-25	Soil: 0.5 feet	TNT/DNT[S] RDX/HMX[S] **EXP**	Inorganics	MeCl Ace TCE MCPA Pic BEHP DDT
	Soil: 2 feet			
	Soil: 10, 20 feet	9/20	9/20	9/20
	Soil: 30, 40, 50, 60, 70, 80, 90, 100, 110, 120 feet	9/23	9/23	
	Groundwater: 120 feet	**9/23**		9/23 (V)
MW-18	Groundwater: 44 feet	ND[S] **EXP**		Ace (V) THM CD
	Groundwater: 60 feet	ND[S]		ND (V)
	Groundwater: 76, 86, 96 feet	ND[S] **ND**		ND (V)
	Groundwater: 106, 116, 126, 136 feet	ND[S] **ND**		Ace (V)
	Groundwater: 146 feet	ND[S] **ND**		Ace (V) THM
	Groundwater: 156 feet	ND[S] **ND**		THM (V)
	Groundwater: 166 feet	ND[S] **ND**		ND (V)
	Groundwater: 176 feet	ND[S] **ND**		TCE (V)

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Boring	Sample Type	Explosives	Inorganics	Other Analytes
	Groundwater: 186 feet	ND[S] **ND**		Ace (V) CD THM TCE
	Groundwater: 196 feet	ND[S] **ND**		THM (V) TCE
	Groundwater: 206 feet	ND[S] **ND**		THM (V)
	Groundwater: 216 feet	ND[S] **ND**		ND (V)
	Groundwater: 226 feet	ND[S] **ND**		THM (V)
	Groundwater: 236 feet	ND[S] **ND**		Ace (V) THM
	Groundwater: 246, 256, 268 feet	ND[S] **ND**		ND (V)
	Groundwater: 276 feet			9/9(V)
MW-21	Groundwater: 176, 186, 196, 206, 216, 225, 246, 255, 270, 277, 286, 296, 306, 335 feet	**9/13-20**		9/13-20(V)
MW-20	Soil: 60 feet		9/26	9/26 (V)
Area 3 Grid A	Soil: 0-6 inch	TNT/DNT[S]	9/10	9/10
	Soil: 18-24 inch			
Area 3 Grid B	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/10	9/10
	Soil: 18-24 inch			
Area 3 Grid C	Soil: 0-6 inch	TNT/DNT[S]	9/10	9/10
	Soil: 18-24 inch			

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Summary of Preliminary Analytical Results (not validated)
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Boring	Sample Type	Explosives	Inorganics	Other Analytes
Area 3 Grid D	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/15	9/15
	Soil: 18-24 inch			
Area 3 Grid E	Soil: 0-6 inch	TNT/DNT[S]	9/10	9/10
	Soil: 18-24 inch			
Area 3 Grid F	Soil: 0-6 inch	TNT/DNT[S]	9/10	9/10
	Soil: 18-24 inch			
Area 3 Grid G	Soil: 0-6 inch	TNT/DNT[S]	9/10	9/10
	Soil: 18-24 inch			
Area 3 Grid J	Soil: 0-6 inch	ND[S]	9/11	9/11
	Soil: 18-24 inch			
Area 3 Grid K	Soil: 0-6 inch	TNT/DNT[S]	9/11	9/11
	Soil: 18-24 inch			
Area 3 Grid L	Soil: 0-6 inch	TNT/DNT[S]	9/11	9/11
	Soil: 18-24 inch			
Area 3 Grid M	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/11	9/11
	Soil: 18-24 inch			
Area 3 Grid N	Soil: 0-6 inch	TNT/DNT[S]	9/11	9/11
	Soil: 18-24 inch			
Area 2 Grid A	Soil: 0-6 inch	TNT/DNT[S]	9/11	9/11
	Soil: 18-24 inch			
Area 2 Grid B	Soil: 0-6 inch	ND[S]	9/10	9/10
	Soil: 18-24 inch			

Table 1
Summary of Preliminary Analytical Results (not validated)
As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
Area 2 Grid C	Soil: 0-6 inch	ND[S]	9/10	9/10
	Soil: 18-24 inch			
Area 2 Grid D	Soil: 0-6 inch	TNT/DNT[S]	9/11	9/11
	Soil: 18-24 inch			
Area 2 Grid E	Soil: 0-6 inch	TNT/DNT[S]	9/11	9/11
	Soil: 18-24 inch			
Area 2 Grid F	Soil: 0-6 inch	TNT/DNT[S]	9/11	9/11
	Soil: 18-24 inch			
Area 2 Grid G	Soil: 0-6 inch	TNT/DNT[S]	9/11	9/11
	Soil: 18-24 inch			
Area 2 Grid H	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/15	9/15
	Soil: 18-24 inch			
Area 2 Grid I	Soil: 0-6 inch	TNT/DNT[S]	9/11	9/11
	Soil: 18-24 inch			
Area 2 Grid J	Soil: 0-6 inch	TNT/DNT[S]	9/11	9/11
	Soil: 18-24 inch			
Area 2 Grid K	Soil: 0-6 inch	TNT/DNT[S]	9/12	9/12
	Soil: 18-24 inch			
Area 2 Grid L	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/15	9/15
	Soil: 18-24 inch			
Area 2 Grid M	Soil: 0-6 inch	ND[S]	9/15	9/15
	Soil: 18-24 inch			

Table 1
Summary of Preliminary Analytical Results (not validated)
As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
Area 2 Grid N	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/15	9/15
	Soil: 18-24 inch			
Area 2 Grid O	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/15	9/15
	Soil: 18-24 inch			
Area 9 Grid A	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/16	9/16
	Soil: 18-24 inch			
Area 9 Grid B	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/16	9/16
	Soil: 18-24 inch			
Area 9 Grid C	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/16	9/16
	Soil: 18-24 inch			
Area 9 Grid D	Soil: 0-6 inch	TNT/DNT[S]	9/16	9/16
	Soil: 18-24 inch			
Area 9 Grid E	Soil: 0-6 inch	ND[S]	9/16	9/16
	Soil: 18-24 inch			
Area 10 Grid A	Soil: 18-24 inch	TNT/DNT[S] RDX/HMX[S]	9/17	9/17
	Soil: 0-6 inch			
Area 10 Grid B	Soil: 18-24 inch	TNT/DNT[S]	9/17	9/17
	Soil: 18-24 inch			
Area 10 Grid C	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/17	9/17

Table 1
Summary of Preliminary Analytical Results (not validated)
As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
	Soil: 18-24 inch			
Area 10 Grid D	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/17	9/17
	Soil: 18-24 inch			
Area 10 Grid E	Soil: 0-6 inch	TNT/DNT[S]	9/17	9/17
	Soil: 18-24 inch			
Area 14 Grid A	Soil: 0-6 inch	TNT/DNT[S]	9/16	9/16
	Soil: 18-24 inch			
Area 14 Grid B	Soil: 0-6 inch	TNT/DNT[S]	9/16	9/16
	Soil: 18-24 inch			
Area 14 Grid C	Soil: 0-6 inch	TNT/DNT[S] RDX/HMX[S]	9/16	9/16
	Soil: 18-24 inch			
Area 14 Grid D	Soil: 0-6 inch	TNT/DNT[S]	9/16	9/16
	Soil: 18-24 inch			
Area 14 Grid E	Soil: 0-6 inch	TNT/DNT[S]	9/16	9/16
	Soil: 18-24 inch			
Area 1 Grid A	Soil: 0-6 inch	TNT/DNT[S]	9/19	9/19
	Soil: 18-24 inch			
Area 1 Grid B	Soil: 0-6 inch	TNT/DNT[S]	9/19	9/19
	Soil: 18-24 inch			
Area 1 Gri C	Soil: 0-6 inch	TNT/DNT[S]	9/19	9/19
	Soil: 18-24 inch			

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Summary of Preliminary Analytical Results (not validated)
As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
Area 1 Grid D	Soil: 0-6 inch	TNT/DNT[S]	9/19	9/19
	Soil: 18-24 inch			
Area 1 Grid E	Soil: 0-6 inch	TNT/DNT[S]	9/19	9/19
	Soil: 18-24 inch			
Area 1 Grid F	Soil: 0-6 inch	TNT/DNT[S]	9/20	9/20
	Soil: 18-24 inch			
Area 1 Grid G	Soil: 0-6 inch	TNT/DNT[S]	9/20	9/20
	Soil: 18-24 inch			
Area 1 Grid H	Soil: 0-6 inch	TNT/DNT[S]	9/20	9/20
	Soil: 18-24 inch			

Table 1
Summary of Preliminary Analytical Results (not validated)
As of September 25, 1997

Boring	Sample Type	Explosives	Inorganics	Other Analytes
Notes:				
7/22	= date sample received for analysis			
ND	= not detected			
s	= result from screening method (colorimetric for soil or high-level 8330 for groundwater)			
BOLD	= result from 8330 method			
(V)	= analyzed for volatile organic compounds only; * = expedited (5-day TAT)			
EXP	= explosives			
Tol	= toluene			
Ace	= acetone			
Benz	= benzene			
CB	= chlorobenzene			
DCB	= 2,4-dichlorobenzene			
TCB	= 1,2,4 -Trichlorobenzene			
HCB	= hexachlorobenzene			
THM	= trihalomethanes			
MeCl	= methylene chloride			
1,1-DCE	= 1,1-dichloroethylene			
TCE	= trichloroethylene			
But	= 2-butanone			
MP	= 4-methyl-2-pentanone			
Hex	= 2-hexanone			
CD	= carbon disulfide			
DCBA	= 3,5-dichlorobenzoic acid			
BEHP	= Bis (2-ethylhexyl) phthalate			
DIHP	= di-n-butylphthalate			
DIEP	= diethylphthalate			
Phe	= phenol			
PCP	= pentachlorophenol			
Nn	= N-nitrosodiphenylamine-1			
Hept	= heptachlor epoxide			
Endo	= Endosulfan I			
bBHC	= beta-BHC			
dBHC	= delta-BHC			
gBHC	= gamma-BHC			
Pic	= Picloram			
Die	= Dieldrin			
Bent	= Bentazon			
DDT	= 4,4-DDT			
DDE	= 4,4-DDE			

Table 2
Summary of Monitoring Wells Completed
As of September 25, 1997

Monitoring Well	Screen Interval (feet bgs)	Location	Date Completed
MW-14S	96.0-106.0	Water Table	7/28
MW-23S	122.5-132.5	Water Table	7/29
MW-23D	272.0-282.0	Bottom of Aquifer[1]	7/29
MW-28S	95.2-105.2	Water Table	7/30
MW-29S	98.5-108.5	Water Table	8/1
MW-12S	96.7-106.7	Water Table	8/7
MW-10S	145.0-155.0	Water Table	8/11
MW-10D	351.5-361.5	Bottom of Aquifer[2]	8/11
MW-11S	122.0-132.0	Water Table	8/12
MW-4S	137.0-147.0	Water Table	8/18
MW-7S	103.0-104.0	Water Table	8/27
MW-7D	332.0-342.0	Bottom of Aquifer[1]	8/27
MW-17S	120.0-130.0	Water Table	8/27
MW-17D	320.0-330.0	Bottom of Aquifer[1]	8/27
MW-18S	35.0-45.0	Water Table	9/9
MW-18D	265.0-275.0	Bottom of Aquifer[1]	9/9
MW-1D	290.0-300.0	Bottom of Aquifer[1]	9/15
MW-1I	160.0-165.0	45 feet Below Water Table	9/18
MW-1S	114.0-124.0	Water Table	9/18

Table 2
Summary of Monitoring Wells Completed
As of September 25, 1997

Monitoring Well	Screen Interval (feet bgs)	Location	Date Completed
MW-15S	105.0-115.0	Water Table	9/18
MW-15D	324.0-334.0	Bottom of Aquifer[1]	9/18
MW-21S	164.0-174.0	Water Table	9/22
MW-21D	302.0-312.0	Bottom of Aquifer[1]	9/22
MW-25S	108.0-118.0	Water Table	9/23
MW-22S	170.5-180.5	Water Table	9/24
MW-6S	106.0-116.0	Water Table	9/25
MW-9S	113.0-123.0	Water Table	9/25

1 =Well constructed on top of till layer overlying bedrock.
2 =Well constructed on top of bedrock.