HTW DRILLING LOG

HOLE No. WC-9D2

PROJECT Stratford Army Engine Plant

INSPECTOR Jacqueline Heitzman

SHEET 19 OF 19 SHEETS

ELEV. a	DEPTH 151.0 b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	151.5						Auger to 155 feet
	152.0						
	152.5						
	153.0						
	153.5						
	154.0						
	154.5						
	155.0	Black schist - 2" quartz/green stone - 1" SW - black/white/yellow/ M-C SAND, trace of greenstone, wet, dense sand.	5.3 ppm	WC-9D2 155-157		50 32 35 40	1430 - Split spoon 155-157 9" Recovery
	156.0						
	156.5						
	157.0	Bottom of boring	157 feet.				
	157.5						
	158.0						
	159.0						
	159.5						

Project: Stratford Army Engine Plant

Hole No.: WC-9D2

1

4. Stratford, Conn

6. MANUFACTURER'S DESIGNATION OF DRILL: Mobile B61

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2" split spoon; 3" split spoon; 4.25 HSA; 140 lb hammer

8. HOLE LOCATION: North Parking lot, west of SAEP Building

9. SURFACE ELEVATION: feet 7.6

10. DATE STARTED: 12-6-94

11. DATE COMPLETED: 12-7-94

12. OVERBURDEN THICKNESS: unknown

13. DEPTH DRILLED INTO ROCK: None

14. TOTAL DEPTH OF HOLE: 16 feet

15. DEPTH GROUNDWATER ENCOUNTERED: 6.0 feet

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: –

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): –

18. GEOTECHNICAL SAMPLES: DISTURBED 5; UNDISTURBED –

19. TOTAL NUMBER OF CORE BOXES: –

20. SAMPLES FOR CHEMICAL ANALYSIS: VOC TCL VO 1; METALS Priority Pollutant metals 1; OTHER (SPECIFY); OTHER (SPECIFY)

21. TOTAL CORE RECOVERY: – %

22. DISPOSITION OF HOLE: BACKFILLED; MONITORING WELL X; OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR: Jacqueline Dietzman

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	0	Asphalt 6"	No HNu field screening HNu is not working properly				1420 Begin Drilling
	0.5						
	1.0	SW - Dark brown m-f SAND, trace of silt, dry, loose sand					N32 split spoon 1-2
	1.5			WC-185-1-2		9 12	9" recovery
	2.0	SW - Dark brown m-c SAND, trace of subangular m-f gravel, moist, med dense, 6"				17	1435 - Split spoon 2-4
	2.5	SW - tan m-c SAND, trace of subangular m-f gravel, dry, med dense, 7"			WC-185-2-4	20	13" recovery
	3.0					19	
	3.5					40	
	4.0						8" split spoon
	4.5						Auger to 6.5 feet
	5.0						
	5.5						
	6.0						

Project: Stratford Army Engine Plant

Hole No.: WC-185

HTW DRILLING LOG

PROJECT: Stratford Army Engine Plant
INSPECTOR: Jacqueline Heitczman
HOLE No. WC-18S
SHEET 2 OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	6.0						
	6.5	SW-Brown m-c SAND, wet med. dense, 7"				9	1450- Split Spoon 6.5-8.5
	7.0	SW-Brown/grey c-f sub-angular gravelly SAND, wet, med dense		WC-18S-6.5-8.5		19	14" recovery
	7.5					29	
	8.0					33	
	8.5						3" split spoon
							Auger to 9.0
	9.0	SW-Brown/grey c-f sub-angular gravelly SAND, wet, dense sand				18	1500-Split spoon 9-11
	9.5			WC-18S-9-11		28	12" recovery
	10.0					38	
	10.5					40	
	11.0						3" split spoon
							1505- Auger to 14 feet
	11.5						
	12.0						
	12.5						
	13.0						
	13.5						
	14.0	SW-Brown/grey f-c SAND, wet, med dense sand				13	1520-Split spoon 14-16
	14.5						

Project: Stratford Army Engine Plant
Hole No. WC-18S

HTW DRILLING LOG

HOLE No. WC-18S

PROJECT Stratford Army Engine Plant

INSPECTOR Jacqueline Heitzman

SHEET 3 OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	14.5					22	15" recovery
	15.0					22	
	15.5					23	
	16.0						3" Splitspoon
		Bottom of boring 16.0 feet					
	16.5						
	17.0						

HTW DRILLING LOG

HOLE No. WC-188I

SHEET 1 OF 1 0 SHEETS 2

1. COMPANY NAME	Woodward- Clyde
2. DRILLING SUBCONTRACTOR	Associated Drilling
3. PROJECT	Stratford Army Engine Plant
4. LOCATION	Stratford, Conn
5. NAME OF DRILLER	Mark Schack
6. MANUFACTURER'S DESIGNATION OF DRILL	Mobile B61
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	10.25 ID HSA; 4.25 ID HSA; 2" Split spoons; 3" Split spoons; 140 lb hammer
8. HOLE LOCATION	10 feet North of WC-185
9. SURFACE ELEVATION	feet 7.6
10. DATE STARTED	12-12-94
11. DATE COMPLETED	12-12-94
12. OVERBURDEN THICKNESS	unknown
13. DEPTH DRILLED INTO ROCK	None
14. TOTAL DEPTH OF HOLE	27 feet
15. DEPTH GROUNDWATER ENCOUNTERED	5.5 feet
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	–
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	–
18. GEOTECHNICAL SAMPLES	DISTURBED 2; UNDISTURBED –
19. TOTAL NUMBER OF CORE BOXES	–
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC –; METALS –; OTHER (SPECIFY) –; OTHER (SPECIFY) –
21. TOTAL CORE RECOVERY	– %
22. DISPOSITION OF HOLE	BACKFILLED X; MONITORING WELL –; OTHER (SPECIFY) Grouted V
23. SIGNATURE OF INSPECTOR	Jacqueline Dettyman

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
			Background HNu- HNu - not working correctly				See WC-185 Drilling log for information from 1 - 20 feet
	20	SW- brown f-c SAND, wet 12"				10	0930- Drill w/ 10.25 HSA to 10 feet; 1005- Auger with 4.25 HSA to 20 feet
	20.5	SW- greybrown f-c SAND, trace of silt, med dense sand				19	1010- Split spoon 20-22 feet 2' recovery
	21.0					26	Running sands problem- send down 20 gallons of water.
	21.5					32	4.25 HSA are getting stuck in between 10.25 HSA
	22.0						
	22.5						Attempt to auger to 25 feet
	23.0						
	23.5						
	24.0						
	24.5						

Project: Stratford Army Engine Plant

Hole No.

HTW DRILLING LOG

PROJECT: Stratford Army Engine Plant
INSPECTOR: Jacqueline Heitczman
HOLE No.: WC-18D1
SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	24.5						
	25.0	SW- brown m-f SAND, wet, med dense, 10"	Background HNu- 2.7ppm			23	1020- split spoon 25-27 feet
	25.5	SW- brown fine SAND, mica flakes trace silt, wet med dense	sample 2.7ppm	WC-18D1-25-27		27	18" recovery
	26.0					34	Augers spinning together, will grout hole and use casing 4"
	26.5	Bottom of boring				32	
	27.0						

Project: Stratford Army Engine Plant
Hole No.: WC-18D1

HTW DRILLING LOG

1. COMPANY NAME	Woodward-Clyde
2. DRILLING SUBCONTRACTOR	Associated Drilling
HOLE No.	WC-18D1
SHEET 1 OF 1 0 SHEETS	3
3. PROJECT	Stratford Army Engine Plant
4. LOCATION	Stratford, Conn
5. NAME OF DRILLER	Mark Schock
6. MANUFACTURER'S DESIGNATION OF DRILL	Mobile B61
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	4" steel casing; 2" split spoon; 300lb hammer; 140lb hammer
8. HOLE LOCATION	6 feet south of WC-18S
9. SURFACE ELEVATION	feet 7.6
10. DATE STARTED	12-12-94
11. DATE COMPLETED	12-12-94
12. OVERBURDEN THICKNESS	unknown
15. DEPTH GROUNDWATER ENCOUNTERED	5.5 feet
13. DEPTH DRILLED INTO ROCK	None
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	—
14. TOTAL DEPTH OF HOLE	47 feet
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	DISTURBED 4; UNDISTURBED —
19. TOTAL NUMBER OF CORE BOXES	—
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC —; METALS —; OTHER (SPECIFY) —; OTHER (SPECIFY) —
21. TOTAL CORE RECOVERY	— %
22. DISPOSITION OF HOLE	BACKFILLED ☐; MONITORING WELL X; OTHER (SPECIFY) ☐
23. SIGNATURE OF INSPECTOR	Jacqueline Salomon

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f		REMARKS h
							See previous Drill logs of WC-18S and WC-18D1. 1200 Begin sinking hole casing to 30'
	30.0	SW-red brown fine SAND, trace of silt, wet, med dense sand, 5"	61ppm 7"	WC-18D1-30-32		9	1410-split spoon 30-32
	30.5	SW-brown fine SAND, trace of silt, wet 2"	7.8ppm 8"			10	15" recovery
	31.0	Gm-brown/grey m-f GRAVEL trace of fine sand, wet, 2"				14	
	31.5	Sm-brown silty SAND, wet 6"				21	
	32.0						1416-send down 5 feet grasing
	32.5						
	33.0						
	33.5						
	34.0						
	34.5						
	35.0						

Project: Stratford Army Engine Plant

Hole No.

HTW DRILLING LOG

PROJECT: Stratford Army Engine Plant
INSPECTOR: Jacqueline Heitmann
HOLE No. WC-18D1
SHEET 2 OF SHEETS 3

ELEV. a	DEPTH 35.0 b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	35.0	GW-grey/brown/white/black m-f subangular GRAVEL wet 2"	5.8ppm			69	1440-split spoon 35-37
	35.5	SW-brown fine SAND, trace of silt, wet, very dense sand, 3"				105/5"	5" recovery
	36.0						
	36.5						
	37.0						
	37.5						
	38.0						1447-Send down casing
	38.5						
	39.0						
	39.5						
	40.0	SW-brown fine SAND, trace of silt, wet med dense sand					
	40.5		5.6ppm	WC-18D1-40-42		40	1515-split spoon 40-42
	41.0					42	18" recovery
	41.5					37	
	42.0					53	
	42.5						1520-send down casing
	43.0						
	43.5						

Project: Stratford Army Engine Plant
Hole No. WC-18D1

HTW DRILLING LOG

HOLE No. WC-18D1

PROJECT Stratford Army Engine Plant

INSPECTOR Jacqueline Heitzmann

SHEET 3 OF 3 SHEETS

ELEV. a	DEPTH 43.5 b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	44.0						
	44.5						
	45.0	SW-brown fine SAND, trace of silt, medium sand, wet	5.7 ppm			22	1600-Split Spoon 45-47 2' recovery
	45.5					29	
	46.0					23	
	46.5					24	
	47.0	Bottom of boring 47.0 feet					
	47.5						

Project: Stratford Army Engine Plant

Hole No.: WC-18D1

HTW DRILLING LOG

HOLE No. WC-195

SHEET 1 OF 1 0 SHEETS 3

1. COMPANY NAME	Woodward-Clyde
2. DRILLING SUBCONTRACTOR	Associated Drilling
3. PROJECT	Stratford Army Engine Plant
4. LOCATION	Stratford, Conn
5. NAME OF DRILLER	Mike Schock
6. MANUFACTURER'S DESIGNATION OF DRILL	Mobile B61
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	2" split spoon; 2" Split spoon; 4.25 HSA; 140 lb Hammer
8. HOLE LOCATION	West Parking Lot
9. SURFACE ELEVATION	feet 6.8
10. DATE STARTED	12-7-94
11. DATE COMPLETED	12-9-94
12. OVERBURDEN THICKNESS	unknown
13. DEPTH DRILLED INTO ROCK	None
14. TOTAL DEPTH OF HOLE	17 feet
15. DEPTH GROUNDWATER ENCOUNTERED	4.0
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	—
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	—
18. GEOTECHNICAL SAMPLES	DISTURBED 6; UNDISTURBED
19. TOTAL NUMBER OF CORE BOXES	—
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: TCL VOC (1); METALS: Priority Pollutant Metals (1); OTHER (SPECIFY): — ; OTHER (SPECIFY): —
21. TOTAL CORE RECOVERY	— %
22. DISPOSITION OF HOLE	BACKFILLED: ; MONITORING WELL: X ; OTHER (SPECIFY):
23. SIGNATURE OF INSPECTOR	Jacqueline Hettigman

ELEV. a	DEPTH a b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	0.5	Asphalt - 10"	HNu - Not working				
	1.0–1.5	SW - Brown, m SAND, trace of fine subangular gravel, dry, loose sand	None			2, 15	1352 - Split Spoon 1-2 6" recovery
	2.0–2.5	SW - Brown m SAND, trace of f-m subangular gravel, dry, 2", med dense	None			11	MW5 - Split Spoon 2-4 14" recovery
	2.5–3.0	CL - Dark grey silty CLAY, dry slight plasticity, stiff, 6"			WC-195-2-4	12	
	3.0–3.5	SW - Brown m-f SAND, trace of silt, moist, med dense, 6"				13, 11	
	4.0–4.5	SW - Brown, f-c SAND, trace of fine gravel, subangular, wet, med dense	None	WC-195-4-6		12, 13	1412 - Split Spoon 4-6 14" recovery
	5.0–5.5					5, 10	Groundwater at 4 feet
	6.0						

Project: Stratford Army Engine Plant

Hole No: WC-195

HTW DRILLING LOG

PROJECT: Stratford Army Engine Plant
INSPECTOR: Jacqueline Heitzman
HOLE No.: WC-195
SHEET 2 OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	6.0	SW- brown/tan f-c SAND trace of subangular f-m gravel, wet, med dense	None	WC-195-6-8		10 21 32 39	1415-Split Spoon 6-8 18" recovery
	8.0	SW- brown/tan f-c SAND trace of subangular gravel, wet, med dense 7" SW- brown/tan f-m SAND wet, med dense, 8"	None	WC-195-8-10		8 38 27 33	1425- Split Spoon 8-10 .5" recovery
	10.0						Auger to 15 feet
	10.5						
	11.0						
	11.5						
	12.0						
	12.5						
	13.0						
	13.5						
	14.0						
	14.5						

Project: Stratford Army Engine Plant
Hole No.: WC-195

HTW DRILLING LOG

PROJECT: Stratford Army Engine Plant
INSPECTOR: Jacqueline Heitzman
HOLE No. WC-195
SHEET 3 OF 3 SHEETS

ELEV. a	DEPTH 14.5b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	15.0	SW- Brown/tan f-m SAND wet, med dense				11	1440 split spoon 2" recovery
	15.5					24	
	16.0					50/4"	
	16.5						
	17.0	Bottom of Boring 17.0 feet					
	17.0						
	17.5						
	18.0						

Project: Stratford Army Engine Plant
Hole No. WC-195

HTW DRILLING LOG

HOLE No. WC-199D1

SHEET 1 OF 1 0 SHEETS 3

1. COMPANY NAME	Woodward-Clyde
2. DRILLING SUBCONTRACTOR	Associated Drilling
3. PROJECT	Stratford Army Engine Plant
4. LOCATION	Stratford Conn
5. NAME OF DRILLER	Mark Schock
6. MANUFACTURER'S DESIGNATION OF DRILL	Mobile B61
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	2" Split spoon; 3" Split Spoon; 4" Steel Casing; 6.25 HSA; 140 lb hammer; 300 lb hammer
8. HOLE LOCATION	West Parking Lot
9. SURFACE ELEVATION	feet 6.8
10. DATE STARTED	12-8 94
11. DATE COMPLETED	12-9-94
12. OVERBURDEN THICKNESS	Unknown
13. DEPTH DRILLED INTO ROCK	None
14. TOTAL DEPTH OF HOLE	42 feet
15. DEPTH GROUNDWATER ENCOUNTERED	4.0
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	—
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	—
18. GEOTECHNICAL SAMPLES	DISTURBED 5; UNDISTURBED —
19. TOTAL NUMBER OF CORE BOXES	—
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC —; METALS —; OTHER (SPECIFY) —; OTHER (SPECIFY) —
21. TOTAL CORE RECOVERY	— %
22. DISPOSITION OF HOLE	BACKFILLED —; MONITORING WELL X; OTHER (SPECIFY) —
23. SIGNATURE OF INSPECTOR	Jacqueline [illegible]

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
			HNu not working				See WC-195 log for 0-15 feet. 0955 - Begin sending down 4" steel casing to 20 feet
	20.0	GM - brown/black/white f-m GRAVEL, subangular, trace of brown sand, med dense sand, wet	None	WC-199D1 - 20-22	-	9	1100 - Split Spoon 20-22 4" recovery
	20.5					12	3" Split spoon
	21.0					7	
	21.5					24	1115 - clean out hole, used 50 gallons of water and [illegible] another 5' of casing
	22.0						
	22.5						
	23.0						
	23.5						
	24.0						
	24.5						
	25.0						