HTW DRILLING LOG

HOLE NO. WC-10S

PROJECT STRATFORD ARMY ENGINE PLANT

INSPECTOR M DOMBROWSKI

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
		Augered to 13 ft					
		End of boring 13 ft					

HTW DRILLING LOG

HOLE NO.	WC-11S
1. COMPANY NAME	Woodward-Clyde Consultants
2. DRILLING SUBCONTRACTOR	EAST COAST DRILLING
SHEET 1 OF 2 SHEETS	
3. PROJECT	STRATFORD ARMY ENGINE PLANT
4. LOCATION	STRATFORD, CT
5. NAME OF DRILLER	PAT SCOTT
6. MANUFACTURER'S DESIGNATION OF DRILL	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75; Stainless steel 2" split spoon
8. HOLE LOCATION	
9. SURFACE ELEVATION	7.73
10. DATE STARTED	6-16-92
11. DATE COMPLETED	6-16-92
12. OVERBURDEN THICKNESS	—
13. DEPTH DRILLED INTO ROCK	—
14. TOTAL DEPTH OF HOLE	14 ft
15. DEPTH GROUNDWATER ENCOUNTERED	4.5 ft
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	1
DISTURBED	SS-4
UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	2
VOC	✓
METALS	✓
OTHER (SPECIFY)	Semi VO
OTHER (SPECIFY)	—
OTHER (SPECIFY)	—
21. TOTAL CORE REC.	— %
22. DISPOSITION OF HOLE	
BACKFILLED	
MONITORING WELL	✓
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	M Dombrowski

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
		Asphalt pavement					
	0.5 ↓ 2.5 ft	SP/SM – Brown to black fine sand or silty fine sand, tr gravel. Cinders. Dry.	0.0 ppm		WC-11S-0.5-2.5	7-6-2-2	Bkg = 0.0 Rec'd 12" Time 0955
	2.5 ↓ 4.5 ft	SP – Brown to reddish-brown fine sand. Cinder layer. Copper wire and rubber wrap.	0.0 ppm		WC-11S-2.5-4.5	6-8-10-10	Rec'd 10" Time 1005
	4.5 ↓ 6.5 ft	SP – Brown med sand. Wet.	0.0 ppm			9-10-17-22	Rec'd 11" Time 1010
		Auger to 9 ft					
	9 ↓ 11 ft	GP/SP – Brown sandy gravel and dark gray med sand with rubber fragments – fill.	0.0 ppm	SS-4		6-14-16-15	Rec'd 11" Time 1050

PROJECT: STRATFORD ARMY ENGINE PLANT HOLE NO.: WC-11S

HTW DRILLING LOG

HOLE NO. WC-11S

PROJECT STRATFORD ARMY ENGINE PLANT

INSPECTOR M. DOMBROWSKI

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
		Augered to 14 ft					
		End of boring 14 ft					

PROJECT: STRATFORD ARMY ENGINE PLANT HOLE NO.: WC-11S

HTW DRILLING LOG

HOLE NO.	WC-12S
SHEET 1 OF 2 SHEETS	
1. COMPANY NAME	Woodward-Clyde Consultants
2. DRILLING SUBCONTRACTOR	EAST COAST DRILLING
3. PROJECT	STRATFORD ARMY ENGINE PLANT
4. LOCATION	STRATFORD, CT
5. NAME OF DRILLER	BRETT SWIATEK
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Stainless steel 2" split spoon
8. HOLE LOCATION	
9. SURFACE ELEVATION	8.33
10. DATE STARTED	6-26-92
11. DATE COMPLETED	6-26-92
12. OVERBURDEN THICKNESS	—
15. DEPTH GROUNDWATER ENCOUNTERED	4.5 ft
13. DEPTH DRILLED INTO ROCK	—
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	13 ft
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC.
2	✓	✓	Semi VOs	Cyanide	—	—%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		✓		M Dombrowski

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
	0.5 ↓ 2.5 ft	Asphalt pavement SM- Brown silty fine to med sand, some gravel. Asphalt frag.	0.2 ppm		WC-12S -0.5 -2.5	8-8 -5 -5	Bkg 0.2 ppm Rec'd 16" Time 0955
	2.5 ↓ 4.5 ft	SW- Reddish brown med sand.	0.2 ppm		WC-12S -2.5 -4.5	7-10 -12 -14	Bkg 0.2 Rec'd 17" Time 1000
	4.5 ↓ 6.5 ft	S.A.A., wet	0.0 ppm			5-5 -9 -4	Bkg 0.0 Rec'd 17" Time 1005
		↓ Auger to 10 ft					
	10 ↓ 12 ft	SP- Gravelly coarse sand, brown.	0.2 ppm	SS-4		6-6 -7 -9	Bkg 0.2 Rec'd 12" Time 1020

PROJECT: STRATFORD ARMY ENGINE PLANT | HOLE NO.: WC-12S

HTW DRILLING LOG

HOLE NO. WC-12S

PROJECT STRATFORD ARMY ENGINE PL

INSPECTOR M DOMBROWSKI

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
		Auger to 13 ft					
		End of boring 13 ft					

PROJECT: STRATFORD ARMY ENGINE PLANT

HOLE NO.: WC-12S

HTW DRILLING LOG

HOLE NO. WC-13S

SHEET 1 OF 1 SHEETS

1. COMPANY NAME: Woodward-Clyde Consultants
2. DRILLING SUBCONTRACTOR: EAST COAST DRILLING
3. PROJECT: STRATFORD ARMY ENGINE PLANT
4. LOCATION: STRATFORD, CT
5. NAME OF DRILLER: PAT SCOTT
6. MANUFACTURER'S DESIGNATION OF DRILL: CME-75
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2" split spoon
8. HOLE LOCATION:
9. SURFACE ELEVATION: 7.45
10. DATE STARTED: 6-23-92
11. DATE COMPLETED: 6-23-92
12. OVERBURDEN THICKNESS: —
13. DEPTH DRILLED INTO ROCK: —
14. TOTAL DEPTH OF HOLE: 13 ft
15. DEPTH GROUNDWATER ENCOUNTERED: 4.5 ft
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):
18. GEOTECHNICAL SAMPLES: none — DISTURBED: — UNDISTURBED: —
19. TOTAL NUMBER OF CORE BOXES: —
20. SAMPLES FOR CHEMICAL ANALYSIS: none — VOC: — METALS: — OTHER (SPECIFY): — OTHER (SPECIFY): — OTHER (SPECIFY): —
21. TOTAL CORE REC.: — %
22. DISPOSITION OF HOLE: BACKFILLED: MONITORING WELL: ✓ OTHER (SPECIFY):
23. SIGNATURE OF INSPECTOR: M Dambrosio

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
		Asphalt pavement					
	0.5 ↓ 2.5 ft	SM - Brown silty fine sand.	0.0 ppm			6-7 -8 -9	Bkg 0.0 Rec'd 19" Time 0950
	2.5 ↓ 4.5 ft	SP - Light brown med sand. Moist. Tip of spoon in wet.	0.0 ppm			7-10 -10 -12	Bkg 0.0 Rec'd 17" Time 0955
		Auger to 10 ft					
	10 ↓ 12 ft	SP - Brown coarse sand with some gravel.	0.0 ppm			6-8 -10 -13	Bkg 0.0 Rec'd 16" Time 1005
		End of boring 13 ft — Auger to 13 ft					

PROJECT: STRATFORD ARMY ENGINE PLANT

HOLE NO.: WC-13S

HTW DRILLING LOG

HOLE NO. WC-14S

SHEET 1 OF 1 SHEETS

1. COMPANY NAME: Woodward-Clyde Consultants	2. DRILLING SUBCONTRACTOR: EAST COAST DRILLING
3. PROJECT: STRATFORD ARMY ENGINE PLANT	4. LOCATION: STRATFORD, CT
5. NAME OF DRILLER: PAT SCOTT	6. MANUFACTURER'S DESIGNATION OF DRILL:
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: CME-75; 2" split spoons	8. HOLE LOCATION:
	9. SURFACE ELEVATION: 7.66
	10. DATE STARTED: 6-17-92 / 11. DATE COMPLETED: 6-17-92
12. OVERBURDEN THICKNESS: —	15. DEPTH GROUNDWATER ENCOUNTERED: < 5 ft
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —
14. TOTAL DEPTH OF HOLE: 13 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
2 ~~none~~	none	none	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC.
none	—	—	—	—	—	— %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		✓		M Dombrowski

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
		Augered to 5 ft					
	5 ↓ 7 ft	SM/SP - Top 4" gray brown silty fine sand. Bottom 14" brown med-coarse sand, tr gravel. Wet.	0.0 ppm	SS-1		2-6 -6 -8	Bkg = 0.0 Rec'd 18" Time 1040
		Augered to 10 ft					
	10 ↓ 12 ft	SP - Brown coarse sand, some gravel.	0.0 ppm	SS-2		1-4 -5 -6	Rec'd 14" Time 1050
		End of boring 13 ft / Augered to 13 ft					

PROJECT: STRATFORD ARMY ENGINE PLANT | HOLE NO.: WC-14S

HTW DRILLING LOG

HOLE NO. WC-155

SHEET 1 OF 1 SHEETS

1. COMPANY NAME: Woodward-Clyde Consultants
2. DRILLING SUBCONTRACTOR: EAST COAST DRILLING
3. PROJECT: STRATFORD ARMY ENGINE PLANT
4. LOCATION: STRATFORD, CT
5. NAME OF DRILLER: PAT SCOTT
6. MANUFACTURER'S DESIGNATION OF DRILL:
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: CME-75; Split spoon - 2-inch
8. HOLE LOCATION:
9. SURFACE ELEVATION: 7.62
10. DATE STARTED: 6-17-92
11. DATE COMPLETED: 6-17-92
12. OVERBURDEN THICKNESS: —
13. DEPTH DRILLED INTO ROCK: —
14. TOTAL DEPTH OF HOLE: 13 ft
15. DEPTH GROUNDWATER ENCOUNTERED: < 5 ft
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —
18. GEOTECHNICAL SAMPLES: 2 ~~None~~ — DISTURBED: — UNDISTURBED: —
19. TOTAL NUMBER OF CORE BOXES: —
20. SAMPLES FOR CHEMICAL ANALYSIS: none — VOC: — METALS: — OTHER (SPECIFY): — OTHER (SPECIFY): — OTHER (SPECIFY): —
21. TOTAL CORE REC.: — %
22. DISPOSITION OF HOLE: BACKFILLED: ; MONITORING WELL: ✓ ; OTHER (SPECIFY):
23. SIGNATURE OF INSPECTOR: M Dombrowski

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
		Concrete Augered to 5 ft					
	5 ↓ 7 ft	SP/GP - Brown med to coarse sand underlain by 4" of sandy gravel. Wet.	0.0 ppm	SS-1		5-8 -13 -8	Bkg 0.0 ppm Rec'd 17" Time 1420
		Augered to 10 ft					
	10 ↓ 12 ft	SP/GP - Brown gravelly coarse sand or sandy gravel. Brick fragment.	0.0 ppm	SS-2		1-3 -7 -8	Rec'd 12" Time 1430
		End of boring 13 ft Augered to 13 ft					

PROJECT: STRATFORD ARMY ENGINE PLANT

HOLE NO.: WC 155

HTW DRILLING LOG

HOLE No. WC-9D3

SHEET 1 OF 1 0 SHEETS 19

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" & 3" Split spoon; 4.25 & 10.25 HSA; 140 lb hammer
8. HOLE LOCATION	Main St
9. SURFACE ELEVATION	feet 8.4
10. DATE STARTED	12-13-94
11. DATE COMPLETED	12-16-94
12. OVERBURDEN THICKNESS	156
13. DEPTH DRILLED INTO ROCK	1
14. TOTAL DEPTH OF HOLE	157
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: — ; UNDISTURBED: 28
19. TOTAL NUMBER OF CORE BOXES	—
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC: TCL VO (1); METALS: Priority Pollution 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 Hodgman

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	SW-Dark Brown m-f SAND Dry, very loose sand	Background 1.9ppm			3	1447-Split spoon 0-2 9" recovery
	0.5					1	Smell sewer
	1.0		2.2ppm			2	
	1.5					1	
	2.0	SW-Dark brown m-f SAND Dry, very loose sand	Peak 9.6ppm		WC-9D2 2-4	2	1455-Split spoon 2-4 [illegible]
	2.5					3	[illegible]
	3.0					3	1500-Sampled Dup
	3.5					3	
	4.0	SW-Dark brown m-f SAND trace of subangular gravel, wet, very loose sand	Peak 10.5ppm			4	1510-Attempt split spoon hit something metal moved 2 feet
	4.5					2	1530-Split spoon 4-6-sewer smell 2" recovery
	5.0					3	
	5.5					2	Groundwater 4.0 feet
	6.0						

Project: Stratford Arm[illegible]

Hole No. WC-9D2

HTW DRILLING LOG

HOLE No. WC-9D2.

PROJECT Woodward-Clyde

INSPECTOR Jacqueline Heitczman

SHEET 2 OF 19 SHEETS

ELEV. a	DEPTH 6.0 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
	6.5	GM- dark brown m-c sandy GRAVEL, subangular med., wet, 5"	Peak 7.7ppm			7	1550-Split spoon 6-8 15" recovery
	7.0	SW- tan/brown m-c SAND, trace of subangular fine gravel, wet, loose sand, 10"				10	sewer smell
	7.5					15	
	8.0					19	
	8.5	SW- tan m-f SAND, wet med dense sand SW- tan m-f SAND, trace of subangular gravel, wet, med dense sand, 5"	Peak 8.6ppm Peak 39.9ppm			7	1600-Split spoon 8-10 12" recovery
	9.0					12	
	9.5					29	
	10.0					29	
	10.5						Auger to 15'
	11.0						
	11.5						
	12.0						
	12.5						
	13.0						
	13.5						
	14.0						
	14.5						

Project: Stratford Army Engine Plant

Hole No.: WC-2102

HTW DRILLING LOG

PROJECT: Stratford Army Engine Plant
INSPECTOR: Jacqueline Heitczman
HOLE No. WC-9D2
SHEET 3 OF SHEETS 19

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						
	15.0						
	15.5	SW-brown/tan f-c gravelly subang, micr SAND, wet, very dense sand, 9"	Peak 11.2ppm	—	—	13	1615-Split spoon 15-17 2' recovery
	16.0	SW-brown m-f SAND, trace of fine subangular gravel, wet, very dense sand 15"				35	
	16.5					78	
	17.0					46/2"	
							Auger to 20 feet
	18.0						
	18.5						
	19.0						
	19.5						
	20.0	SW-grey m-f SAND, mica flakes, wet, dense sand					
	20.5		Peak 7.2ppm	—	—	11	1625-Split spoon 20-22 2' recovery
	21.0					40	
	21.5					40	
	22.0					35	
	22.5						Auger to 25 feet
	23.0						

Project: Stratford Army Engine Plant
Hole No. WC-9D2

HTW DRILLING LOG

PROJECT: Stratford Army Engine Plant | INSPECTOR: Jacqueline Heitzman | HOLE No. WC-9D2 | SHEET 4 OF 19 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
	23.0						
	23.5						
	24.0						
	24.5						
	25.0	SW- grey m-f SAND, mica flakes, trace of fine subangular gravel, loose sand	Peak 5.3ppm	—	—	5 8 13 13	1635 Split Spoon 25-27 9" recovery
	26.0						
	26.5						
	27.0						
	27.5						Auger to 30 feet
	28.0						
	28.5						
	29.0						
	29.5						
	30.0	CL- brown/grey sandy, clayey, dry low plasticity, hard clay	7.2ppm	WC-9D2 30-32		24 53 43	1617- split Spoon 12" recovery Sewer smell
	30.5						
	31.0						
	31.5						

Project: Stratford Army Engine Plant

Hole No.: WC-9D2

PROJECT Stratford Army Engine Plant

INSPECTOR Jacqueline Heitzman

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
	31.5					49	
	32.0						1700- 10.25 HSA spinning with 6.25 HSA [illegible] Forday
	32.5						12-15-94 0810 Begin augering to 35 feet.
	33.0		Background 2.0ppm				
	33.5						
	34.0						
	34.5						
	35.0	SW- brown f-m SAND, trace clay. Red clay stringers throughout split spoon, mica flakes wet, dense sand	Peak 6.0ppm			12	0816 split spoon 35-37 13" recovery
	35.5					31	
	36.0					49	
	36.5					30	
	37.0						Auger to 40 feet
	37.5						
	38.0						
	38.5						
	39.0						
	39.5						
	40.0						

Project Stratford Army Engine Plant

Hole No. WC-9D2