

FIGURE 2.5-331

DELETED IN INITIAL UFSAR

FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-332  
SHEET 1 OF 2

BEST AVAILABLE  
HISTORICAL IMAGE

Project WATTS BAR N. P.

Feature ERCW ALIGNMENT

Boring SS-169 Station 320.0 N Range 348.0 E Surface El 741.1

Date Drilled 7-2-79 To 7-2-79

Prepared By JLB Checked By gcy

Depth	El	SPT (N)	Log	W	LL	PI	X	Remarks
1"=5'								
0	740	17		16.7	31.2	11.8		
		18		14.9				
5	735	16	U	18.4	32.6	13.6		ALLUVIAL CLAY
		13		17.9	33.3	15.3		
10	730	14		16.8				
		19	U	24.5	51.5	29.3		
		15		21.0	44.6	24.7		
15	725	10	U	26.9	43.3	20.1		
		10		27.6	42.1	17.3		
20	720	13	M	32.3	48.4	17.2		
		8		31.8	43.0	17.0		ALLUVIAL SILT
		6		34.3	41.4	13.7		
25	715	6	M	32.3				
		5		33.1	40.8	13.7		
30	710	50		10.4	NP	NP		ALLUVIAL GRAVEL
		50		9.7				
		50		14.7	36.8	12.0		WEATHERED SHALE
35								



Depth	El	SPT (bl)	L og	W	LL	PI	X	Remarks
1"=5'								
35								
	705	50	CL	17.0	38.1	14.5		WEATHERED SHALE
		50 <sup>+</sup>		11.0				
		50 <sup>+</sup>	SC		29.0	9.8		
		50 <sup>+</sup>		6.3				
40								
	700							DISCONTINUED
45								
50								
55								
60								
65								
70								
75								
80								

BEST AVAILABLE  
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WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
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SOIL PROFILE  
FIGURE 2.5-332  
SHEET 2 OF 2

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
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BEST AVAILABLE  
HISTORICAL IMAGE

SOIL PROFILE  
FIGURE 2.5-333  
SHEET 1 OF 2

Project WATTS BAR N. P. Feature ERCW ALIGNMENT  
Boring SS-170 Station 420.0N Range 348.0E Surface El 741.2  
Date Drilled 7-2-79 To 7-2-79 Prepared By JLB Checked By *gcb*

Depth	El	SPT (N)	Log	W	LL	PI	X	Remarks
1"=5'								
0	740	18	CL-ML	15.6	30.1	8.5		SANDY SILT
5	735	14	CL	16.2	27.8	6.0		
		15	CL	15.8				
		24	CL	17.6	31.8	12.3		ALLUVIAL CLAY
10	730	21	CH	25.2	61.5	34.2		
		13	CL	19.3	44.0	21.2		
		7	CL	23.5	33.4	13.7		
15	725	14	ML-CL	25.5	44.5	27.5		
		14	ML-CL	29.5				
20	720	12	SM	21.9	32.6	7.4		
		4	GSMSC	29.1	34.8	11.5	▽ ▽	
		17	GSM	23.6				
25	715	18	GSM	19.2				ALLUVIAL SAND & GRAVEL
		31	GSM	12.1	NP	NP		
30	710	50	GSM	42.5				
		50	GSM	10.4				
35		21	GM	17.8				

Project WATTS BAR N.P. Boring SS-170

Depth	El	SPT (N)	Log	W	LL	PI	X	Remarks
1"=5'								
35								
	705	28	ML	21.6	42.7	15.9		
		50+	CL	11.5	32.9	11.4		WEATHERED SHALE
40		50+		15.6	37.0	13.5		
	700							BEDROCK
45								
50								
55								
60								
65								
70								
75								
80								

BEST AVAILABLE  
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WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
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SOIL PROFILE  
FIGURE 2.6-333  
SHEET 2 OF 2



WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
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SOIL PROFILE  
FIGURE 2.5-334  
SHEET 1 OF 2

BEST AVAILABLE  
HISTORICAL IMAGE

PROJECT: WATTS BAR N.P. FEATURE: VOL REDUC & SOLID SYS BLDG  
BORING: SS-1 STATION: 1 RANGE: G SURFACE EL: 741.7  
DATE DRILLED: 6-14-82 TO 6-14-82 PREPARED BY: MHD CHECKED BY:

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	740	26		13.3	29	12	TOPSOIL SI SD, DK BRN, MST, MIC, HOMO, (FL)
		21	J 0	15.6			CL SI SD, MD-DK BRN, MST, MIC, HOMO (FL)
	735	16		16.1			CL SI SD, DKBRN, MST, MIC, HOMO, (FL)
		50+		18.6			SD CL SI, DKBRN, MST, MIC, HOMO, (FL) 1032 GRAVEL - NO SAMPLE
10	730	24	J 0	24.7	43	18	SI CL, MD-LT TN, MOTT, MST, HOMO, MIC (ALL.)
		22		22.1			SI SD, MD TN-YEL TN, MOTT, MST, HOMO (ALL.)
15	725	14		24.2	39	14	CL SI, MD TN-YEL TN, MOTT, MST, HOMO (ALL.)
		18	J 0	29.1			CL SD SI, MD TN-YEL TN, MOTT, MST, HOMO (ALL.)
20	720				30	2	
		5	Σ 0	31.0			SD CL SI, MD TN, MST, HOMO, MIC, CALL.)
25	715				25	3	
		10	Σ 0	25.2			SI SD, MD TN, V MST, HOMO, MIC, CALL.)
30	710				NP	NP	
		50+	0 0	10.2			GV SD, MD TN-BLK BRN, W, STRAT. CALL.)
35							
1''=5'							
			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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SOIL PROFILE  
FIGURE 2.5-334  
SHEET 2 OF 2

BEST AVAILABLE  
HISTORICAL IMAGE

PROJECT: WATTS BAR N.P. FEATURE: VOL REDUC & SOLID SYS BLDG  
BORING: SS-1 STATION: 1 RANGE: G SURFACE EL: 741.7  
DATE DRILLED: 6-14-82 TO 6-14-82 PREPARED BY: MHD CHECKED BY:

DEPTH ft.	EL	SPT (CN)	* LOG	W	LL	PI	FIELD DESCRIPTION
	705	37	$\Sigma \frac{10}{0.10}$	24.5	38	12	WTH SH, MD TN-BLK GY, MST, LAM-STRAT.
40							BEDROCK (EL. 704.0)
	700						
45							
	695						
50							
	690						
55							
	685						
60							
	680						
65							
	675						
70							
1"=5'		* Lab. Classif.					

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
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BEST AVAILABLE  
HISTORICAL IMAGE

SOIL PROFILE  
FIGURE 2.5-335  
SHEET 1 OF 2

PROJECT: WATTS BAR N.P. FEATURE: VOL REDUC & SOLID SYS BLDG  
BORING: SS-2 STATION: 1 RANGE: C SURFACE EL: 741.5  
DATE DRILLED: 6-11-82 TO 6-11-82 PREPARED BY: MHD CHECKED BY:

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	740	34	CU	13.4	30	11	TOPSOIL DTY SD, MD-DKBRN, MST, MIC, HOMO (FL)
		20	CU	15.9			CL SI SD, MD-DKBRN, MST MIC HOMO (FL)
		17	CU	17.1			CL SI SD, MD BRN, MST, MIC, HOMO (FL)
10	735	53+	SM	17.6	NP	NP	CL SD SI, MD BRN, MST, MIC, HOMO (FL)
		20	SI	2.6			ANG LS GR
		20	SI	24.5			SD CL SI, MD-LT BRN, MST, MIC, HOMO (ALL.)
15	730	22	SI	26.4	51	20	SD CL SI, MD BRN-TN, MST, MIC, HOMO (ALL.)
		14	SI	23.0			SD CL SI, MD BRN-TN, MST, MIC, HOMO (ALL.)
		20	SI	31.5			CL SI, MD BRN-TN-WHT, MST, MIC, HOMO (ALL.)
20	725				43	14	
25	720	6	SI	26.3	29	6	DTY SD, MD BRN, W, MIC, HOMO, (ALL.)
30	715	4					NO RECOVERY
35	710	50+	SI	12.0	NP	NP	GV SD, MD BRN, W, HOMO, C <sub>+</sub> 45% SB RD GV (ALL.)
1"=5'			* Lab. Classif.				



WATTS BAR NUCLEAR PLANT  
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BEST AVAILABLE  
HISTORICAL IMAGE

SOIL PROFILE  
FIGURE 2.5-335  
SHEET 2 OF 2

PROJECT: WATTS BAR N.P.      FEATURE: VOL REDUC & SOLID SYS BLDG  
BORING: SS-2      STATION: 1      RANGE: C      SURFACE EL: 741.5  
DATE DRILLED: 6-11-82 TO 6-11-82      PREPARED BY: MHD      CHECKED BY:

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	705	30	$\frac{1}{\Sigma}$	26.5	28	20	MD CL, MD BRN-GRN, MST, STRAT- <del>SHLY (RES.)</del>
40							REFUSAL (EL. 704.3)
	700						
45							
	695						
50							
	690						
55							
	685						
60							
	680						
65							
	675						
70							
1"=5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
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BEST AVAILABLE  
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SOIL PROFILE  
FIGURE 2.5-336  
SHEET 1 OF 2

PROJECT: WATTS BAR N.P. FEATURE: VOL REDUC & SOLID SYS BLDG  
BORING: SS-3 STATION: 6 RANGE: D SURFACE EL: 741.5  
DATE DRILLED: 6-8-82 TO 6-9-82 PREPARED BY: MHD CHECKED BY:

DEPTH ft.	EL.	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740	13	CL	16.6	30	12	TOPSOIL SD CL SI, DK BRN, MST, MIC, HOMO, FL
5		15	CL	18.3			SD CL SI, DK BRN, R TN MST, MIC, FL
	735	27	CL	18.0	29	12	SD CL SI, DK BRN, MST, MIC, HOMO, FL
10		50+		17.3			SD CL SI, DK BRN, MST, HOMO, MIC, FL
		50+					1032 GRAVEL (NO SAMPLE TAKEN)
	730	29	CL	22.1	41	18	CL SI SD, MD YEL TN, MOTT, MST, HOMO, (ALL.)
15		18		23.4			CL SD SI, MD TN-LT BRN, MOTT, MST, HOMO, (ALL.)
	725	16	CL SI Σ	30.2	39	14	CL SD SI, MD TN-LT BRN, MOTT, MST, HOMO, (ALL.)
20							
	720	9	CL SI Σ	32.5	38	13	CL SD SI, MD TN-LT BRN, MOTT, MST, HOMO, (ALL.)
25							
	715	9	CL	34.7	35	13	FN SD SI CL, MD BRN, MST, HOMO, MIC, (ALL.)
30							
	710	50+	CL SI Σ	24.2	NP	NP	GV CL SI SD, MD BRN-TN-BLK, MOTT, MST, HOMO, (ALL.)
35							
1' = 5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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SOIL PROFILE  
FIGURE 2.5-336  
SHEET 2 OF 2

PROJECT: WATTS BAR N.P. FEATURE: VOL REDUC & SOLID SYS BLDG  
BORING: SS-3 STATION: 6 RANGE: D SURFACE EL: 741.5  
DATE DRILLED: 6-8-82 TO 6-9-82 PREPARED BY: MHD CHECKED BY:

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	705	20		58.4	43	9	FN SD SI, DK BRN-BLK, MOTT, MST (ALL.)
			$\Sigma$ 10	22.8	34	8	CL SI, MD BRN-BLK, MOTT, MST, SHLY, (RES.)
40							
	700						REFUSAL-BEDROCK (EL. 702.8)
45							
	695						
50							
	690						
55							
	685						
60							
	680						
65							
	675						
70							
1'-5'							
		* Lab. Classif.					



WATTS BAR NUCLEAR PLANT  
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SOIL PROFILE  
FIGURE 2.5-337  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: VOL REDUC & SOLID SYS BLDG  
BORING: SS-4 STATION: 9 RANGE: H SURFACE EL: 740.7  
DATE DRILLED: 6-15-82 TO 6-16-82 PREPARED BY: MHD CHECKED BY:

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740						TOPSOIL
		9	U	19.2	35	14	CL SI, MD BRN, MST, HOMO, MIC (FL)
5		4	U	23.0			FN SD CL SI, MD BRN, MST, HOMO, MIC (FL)
	735	4	U	19.9	32	12	SAME AS ABOVE
		4	SM	29.3			CL SI, DK BRN, V MST, HOMO, MIC (FL)
			GM	11.7	NP	NP	DTY SD, DK GY, VMST, HOMO (PGD) (FL)
10		50+		8.5	NP	NP	1032
	730						
		25	U	21.8	48	22	CL SD SI, MD TN-YEL TN-GY, MOTT, MST, HOMO (ALL.)
15		22		24.9			CL SI SD, MD TN-YEL TN-GY, MOTT, MST, MIC, HOMO (ALL.)
	725	16	U	28.4	39	14	SD CL SI, MD TN-YEL TN-GY, MOTT, MST, MIC, HOMO (ALL.)
20							
	720	9	U	30.8	41	21	SI CL, MD TN-GY-BLK, MOTT, MST, HOMO (ALL.)
25							
	715	5		31.2			MD CL, MD TN-LT BRN, MOTT, V. MST, HOMO (W/TR MIC) (ALL.)
30							
	710	50+	U	9.8	NP	NP	GV SD, (40% SB RD GV) MD BRN, W, HOMO (ALL.)
		50+		11.2			WTH SH, MD GY, D, LAM (RES.)
35							
1' = 5'			* Lab. Classif.				REFUSAL (EL. 705.5)

WATTS BAR NUCLEAR PLANT  
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BEST AVAILABLE  
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SOIL PROFILE  
FIGURE 2.5-338  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: VOL REDUC & SOLID SYS BLDG  
BORING: SS-5 STATION: 9 RANGE: B SURFACE EL: 737.1  
DATE DRILLED: 6-9-82 TO 6-10-82 PREPARED BY: MHD CHECKED BY:

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	735	11	CL	17.7	28	11	GRAVELLY ROADBED
		6		21.4			CL SI, DK BRN, MST, HOMO, MIC (W/TR LS GV)(FL)
		50+					CL SI, DK BRN, MST, HOMO, MIC(FL)
10	730	16	CL	22.8	38	19	1032 - NO SAMPLE RECOVERED
		15		19.3			CL SD SI, BRN-GY, MST, STRAT, MIC (ALL.)
		18		25.9			CL SI SD, LT BRN-GY, MST, STRAT (ALL.)
15	725	23	ML	26.8	48	18	CL SI SD, LT BRN-GY, MST (ALL.)
		18		30.0			CL SI SD, MD BRN-CRM, MST, BLKY (ALL.)
		18		30.0			SI CL, MD-LT BRN, MOTT, MST, HOMO (ALL.)
20	715	4	CL	30.7	32	15	CL SD SI, MD BRN-TN, W, HOMO, MIC (ALL.)
		50+		20.2			GV SD ( $\pm 40\%$ SB RD GV) MD BRN, W, HOMO (ALL.)
		50+		15.9			WITH LS & CL, LT BLU-DK BRN-BLK, MST, LAM (3-IN. THK)(RES.)
35	705	50+	SI US		34	10	
1' = 5'			Lab. Classif.				REFUSAL (EL. 703.8)

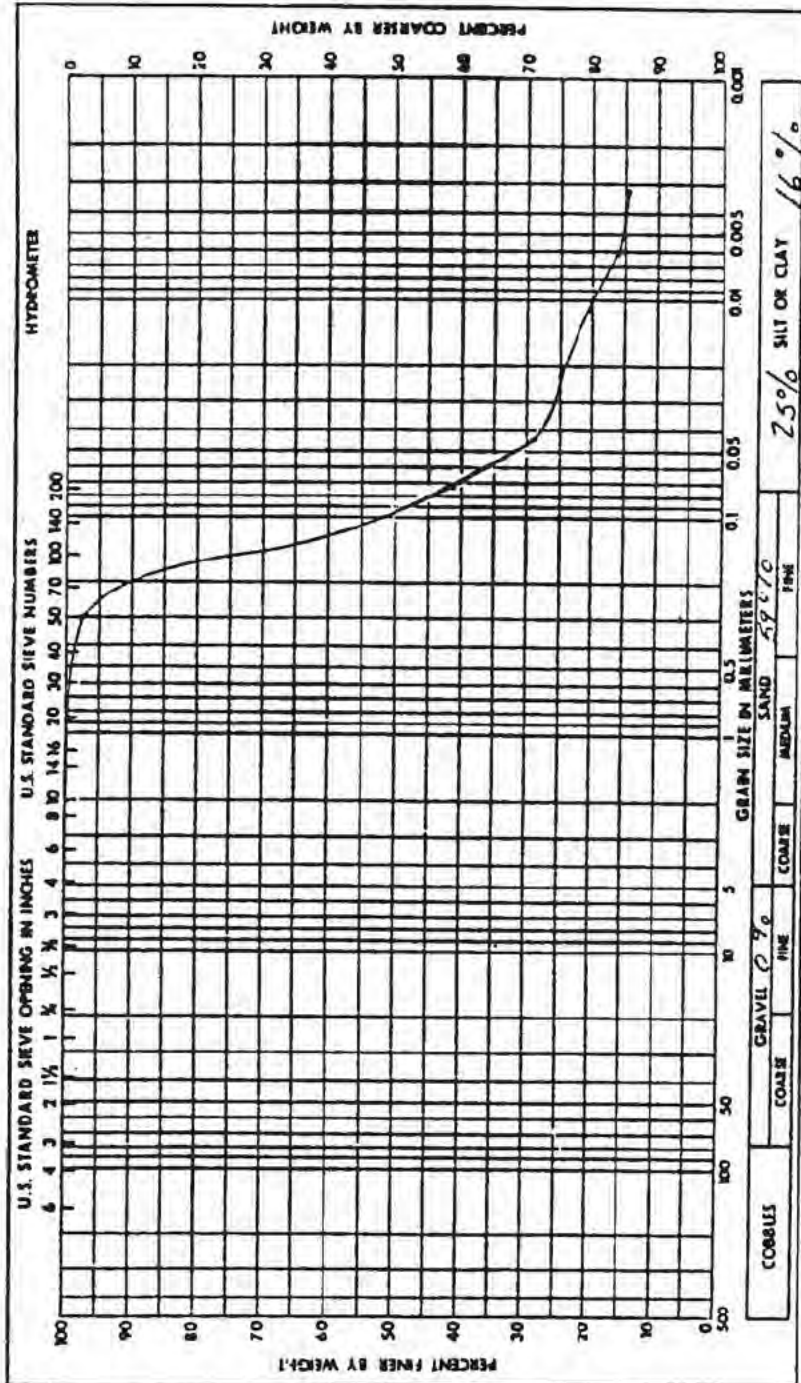




BEST AVAILABLE  
HISTORICAL IMAGE

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
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ERCW LIQUEFACTION  
FIGURE 2.5-340



Soil Symbol	SM	Liquid Limit, %	31.6
Moisture Content, %	27.6	Plastic Limit, %	25.5
Specific Gravity	2.73	Plasticity Index, %	6.1
		Shrinkage Limit, %	

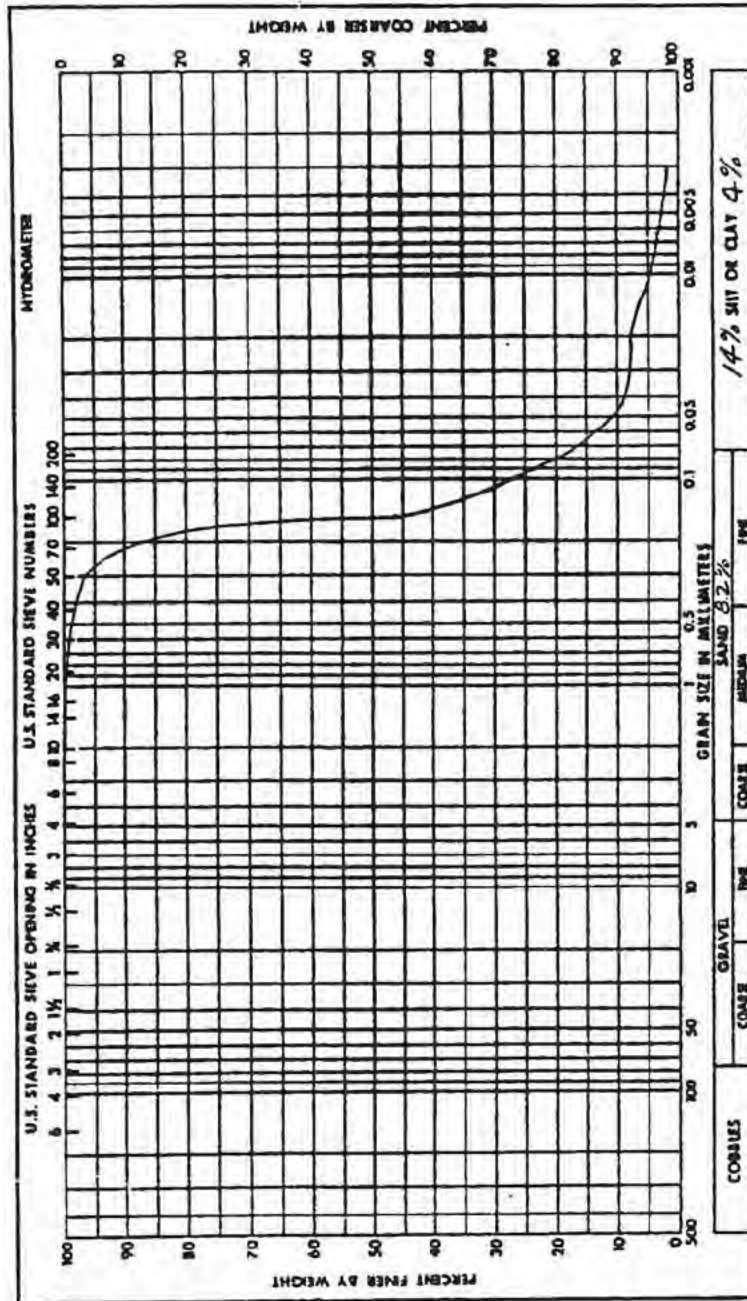
Remarks:

Project	WATTS BAR NP
Feature	ERCW LIQUEFACTION
Boring No.	15-50-1
Sample No.	1
Station	1650.0 S
Range	785.0 E
Date	8-1-79
Elevation	701.4-700.7
GRAIN SIZE ANALYSIS	

HISTORICAL

WATTS BAR NUCLEAR PLANT  
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ERCW LIQUEFACTION  
FIGURE 2.5-341



Project	WATTS BAR NP
Feature	ERCW LIQUEFACTION
Boring No.	GLS-50-1
Sample No.	2
Station	1650.0 S
Range	785.0 E
Date	7-20-79
Elevation	698.9-696.6
GRAIN SIZE ANALYSIS	

Remarks:

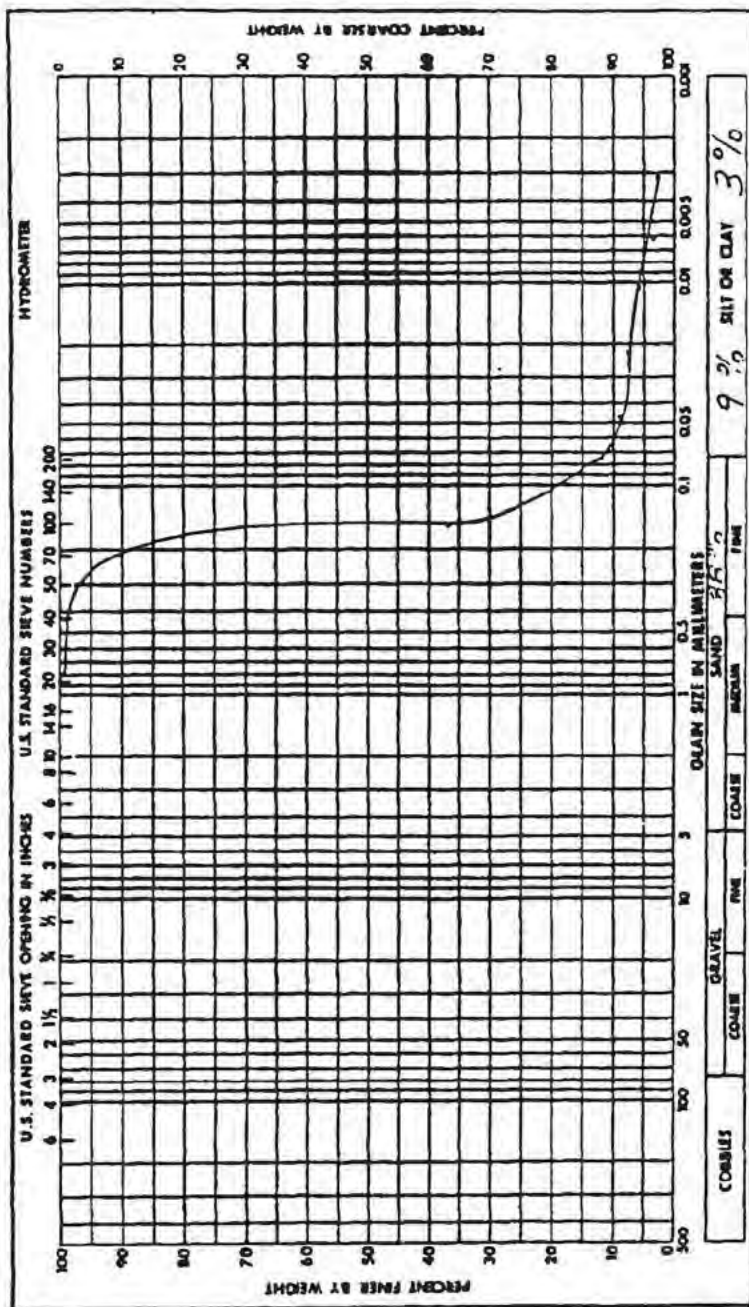
Soil Symbol	SM	Liquid Limit, %	NP
Moisture Content, %	33.0	Plastic Limit, %	NP
Specific Gravity	2.70	Plasticity Index, %	NP
		Shrinkage Limit, %	



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

### LIQUEFACTION FIGURE 2.5-342



Project	Watts Bar N.P.
Feature	Liquefaction
Boring No.	45-50-1
Station	1650.05
Date	7-16-79
Range	785.0E
Elevation	696.4-695.3
GRAIN SIZE ANALYSIS	

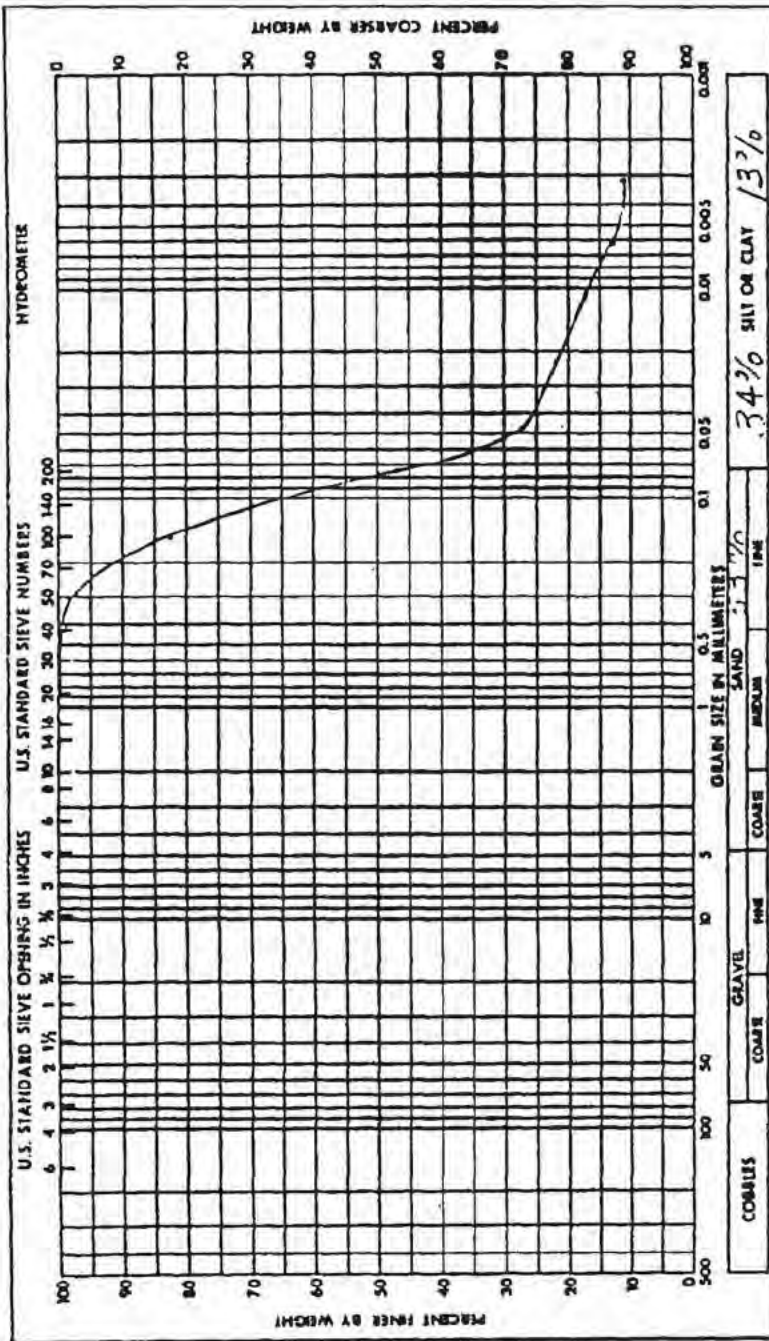
Remarks:

Soil Symbol	SM	Liquid Limit, %	N.P.
Moisture Content, %	28.9	Plastic Limit, %	N.P.
Specific Gravity	2.73	Plasticity Index, %	N.P.
		Shrinkage Limit, %	

BEST AVAILABLE  
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WATTS BAR NUCLEAR PLANT  
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LIQUEFACTION  
FIGURE 2.5-343



Project	Watts Bar N.p.
Feature	Liquefaction
Boring No.	U.S. 50-1
Sample No.	3
Station	1650.05
Range	785.0E
Date	7-16-79
Elevation	695.3-694.5
GRAIN SIZE ANALYSIS	

Remarks:

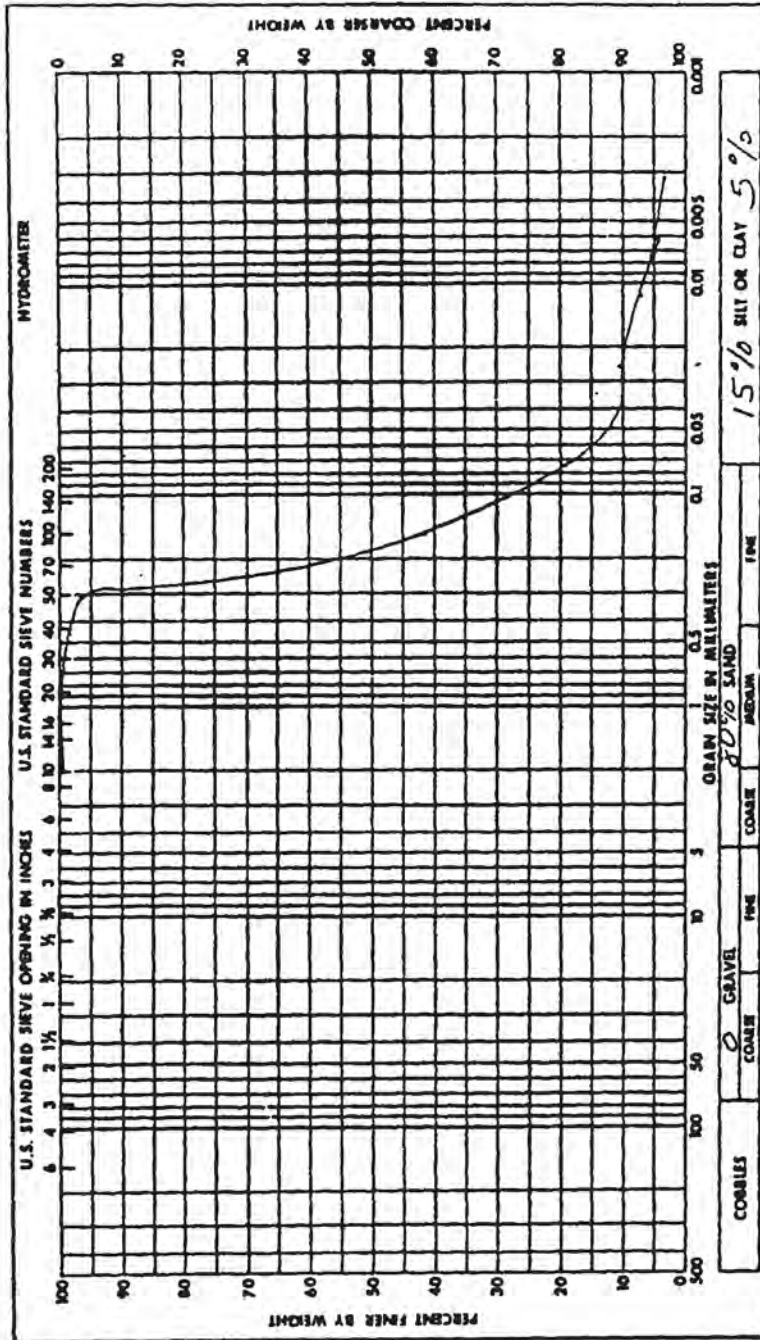
Soil Symbol	SM	Liquid Limit, %	23.1
Moisture Content, %	31.1	Plastic Limit, %	22.1
Specific Gravity	2.70	Plasticity Index, %	1.0
		Shrinkage Limit, %	



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

### LIQUEFACTION FIGURE 2.5-344



Project	Watts Bar N.P.
Feature	Liquefaction
Boring No.	US-50-1
Station	1650.05
Date	7-13-79
Elevation	694.2-692.1
Range	785.0 E
GRAIN SIZE ANALYSIS	

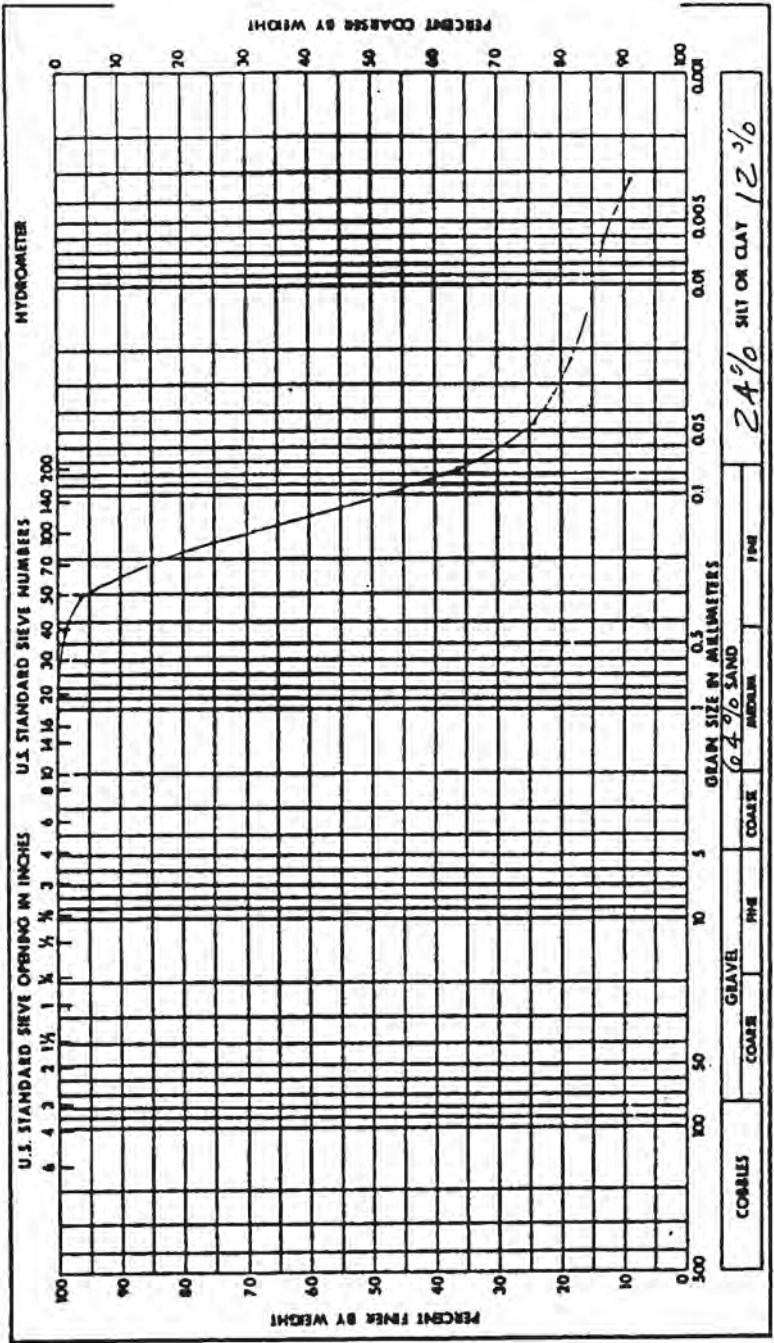
Remarks:

Soil Symbol	SM	Liquid Limit, %	NP
Moisture Content, %	30.5	Plastic Limit, %	NP
Specific Gravity	2.74	Plasticity Index, %	NP
		Shrinkage Limit, %	

HISTORICAL

WATTS BAR NUCLEAR PLANT  
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LIQUEFACTION  
FIGURE 2.5-345



Project	Watts Bar N.P.
Feature	Liquefaction
Boring No.	45-50-1A
Station	1645.0E
Date	7-13-79
Elevation	703.9-702.1

GRAIN SIZE ANALYSIS

Remarks:

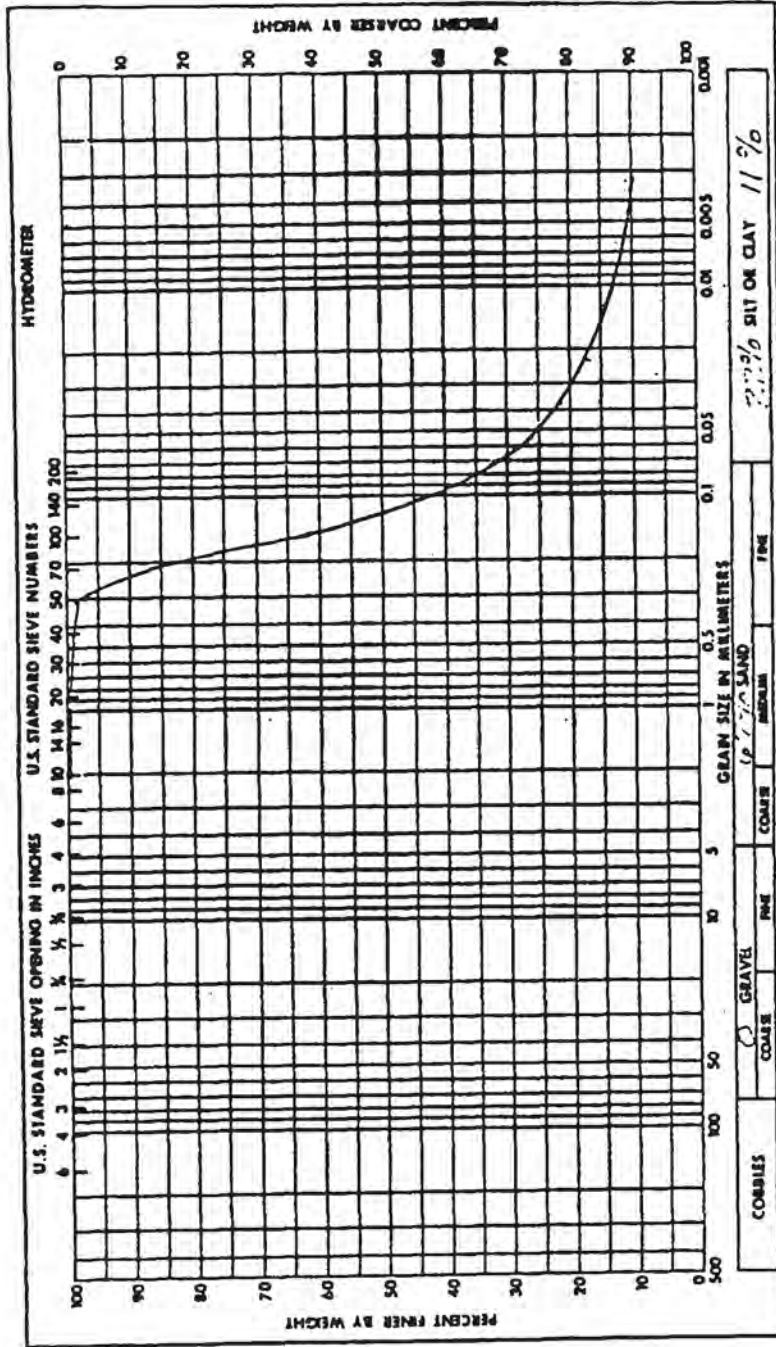
Soil Symbol	SM	Liquid Limit, %	NP
Moisture Content, %	25.9	Plastic Limit, %	NP
Specific Gravity	2.73	Plasticity Index, %	NP
		Shrinkage Limit, %	



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

### LIQUEFACTION FIGURE 2.5-346



Project	Watts Bar N.P.
Feature	Liquefaction
Doring No.	05-50-1A
Sample No.	2
Station	1645.05
Range	785.0 E
Date	7-13-79
Elevation	701.6-682.4

### GRAIN SIZE ANALYSIS

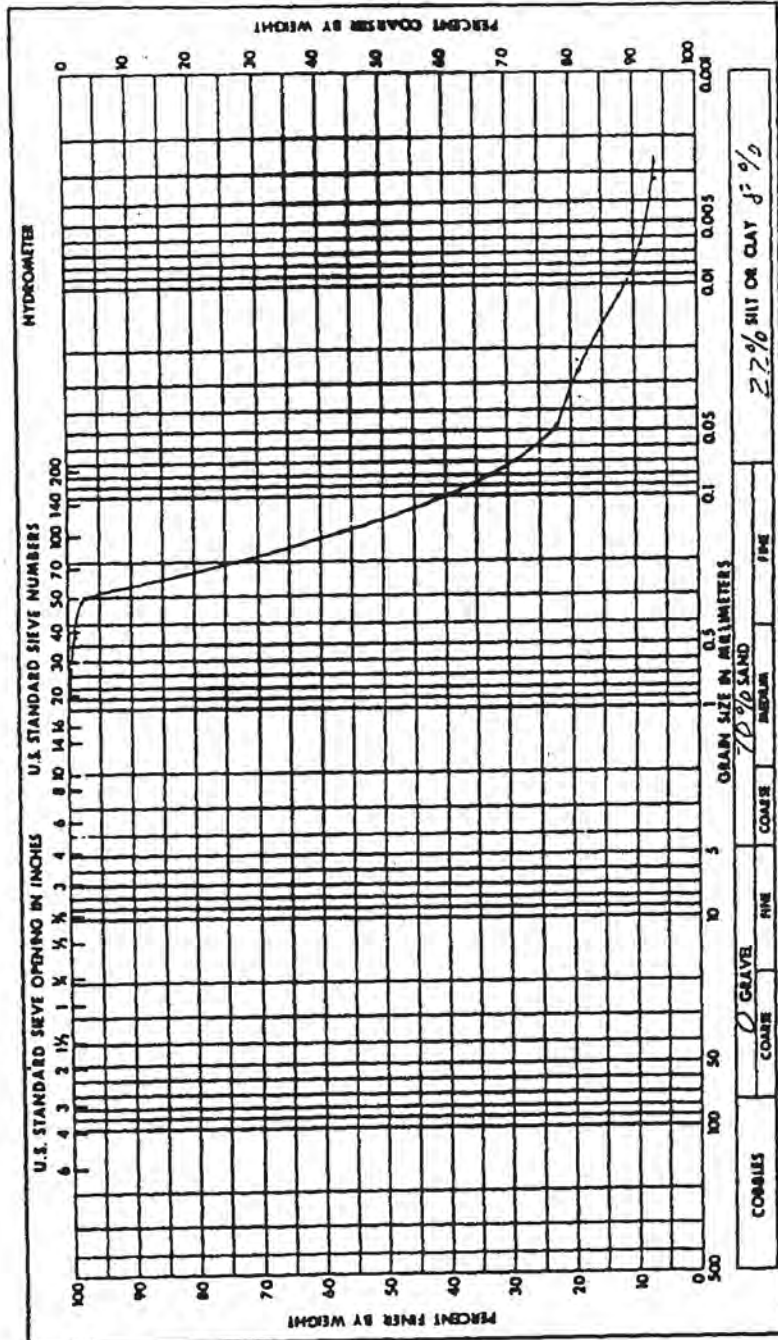
Remarks:

Soil Symbol	SM	Liquid Limit, %	NP
Moisture Content, %	37.8	Plastic Limit, %	NP
Specific Gravity	2.73	Plasticity Index, %	NP
		Shrinkage Limit, %	

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

### LIQUEFACTION FIGURE 2.5-347



Project	Watts Bar N.P.
Feature	Liquefaction
Boring No.	15-65-1
Station	1367.0 S
Date	7-13-79
Range	1005.7 E
Elevation	711.9-709.6

### GRAIN SIZE ANALYSIS

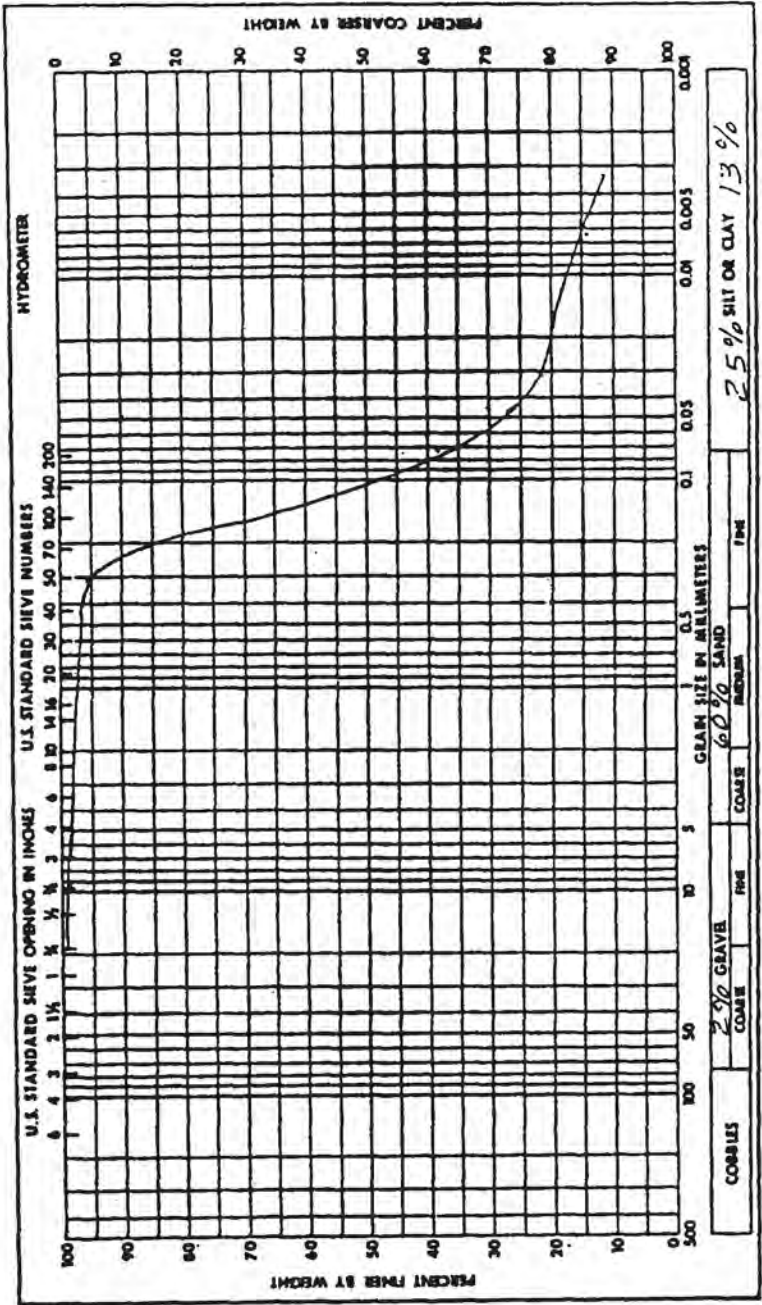
Remarks:

Soil Symbol	SM	Liquid Limit, %	NP
Moisture Content, %	22.2	Plastic Limit, %	NP
Specific Gravity	2.70	Plasticity Index, %	NP
		Shrinkage Limit, %	



HISTORICAL

WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT
LIQUEFACTION FIGURE 2.5-348



Project Watts Bar N.P.
Feature Liquefaction
Boring No. US-65-1 Sample No. 2
Station 13670 S Range 1005.7 E
Date 7-13-79 Elevation 709.4-707.3
GRAIN SIZE ANALYSIS

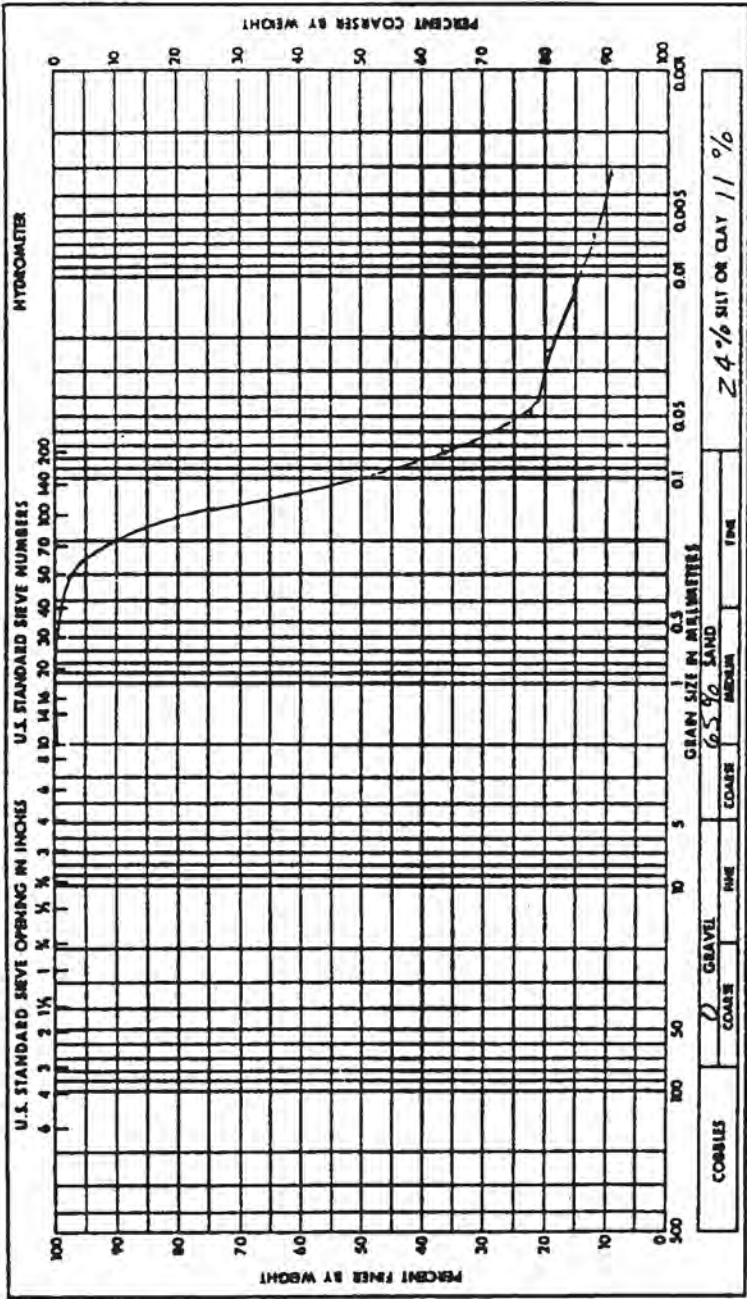
Remarks:

Soil Symbol	SM	Liquid Limit, %	NP
Moisture Content, %	22.7	Plastic Limit, %	NP
Specific Gravity	2.72	Plasticity Index, %	NP
		Shrinkage Limit, %	

HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

LIQUEFACTION  
FIGURE 2.5-348



Project	Watts Bar N.P.
Feature	Liquefaction
Boring No.	15-65-1
Sample No.	3
Station	1367.05
Date	7-13-79
Elevation	727.2-725.2
GRAIN SIZE ANALYSIS	

Remarks:

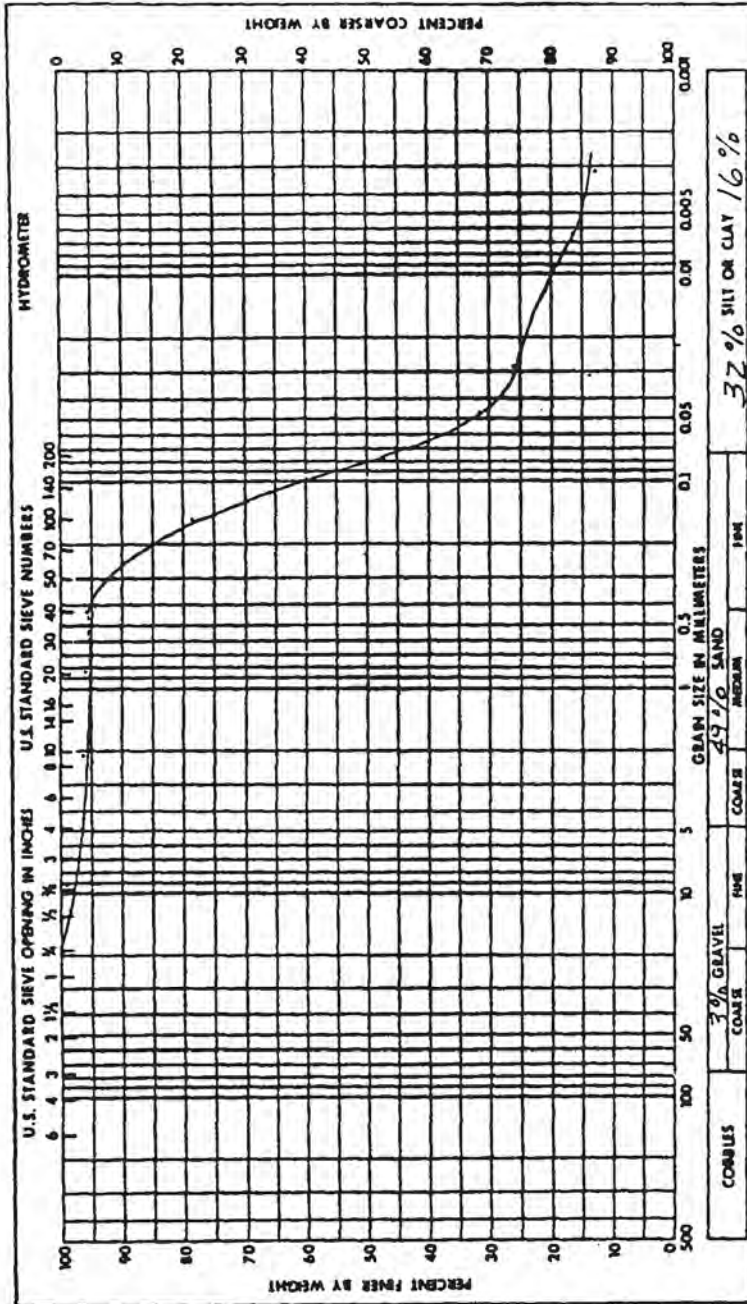
Soil Symbol	SM	Liquid Limit, %	NP
Moisture Content, %	33.4	Plastic Limit, %	NP
Specific Gravity	2.72	Plasticity Index, %	NP
		Shrinkage Limit, %	



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

### LIQUEFACTION FIGURE 2.5-350



Project	Watts Bar N.P.
Feature	L1000-1005101
Boring No.	115-651
Station	1367.0 S
Date	7-13-71
Elevation	705.2-704.0
Sample No.	4
Range	1005.7 E
GRAIN SIZE ANALYSIS	

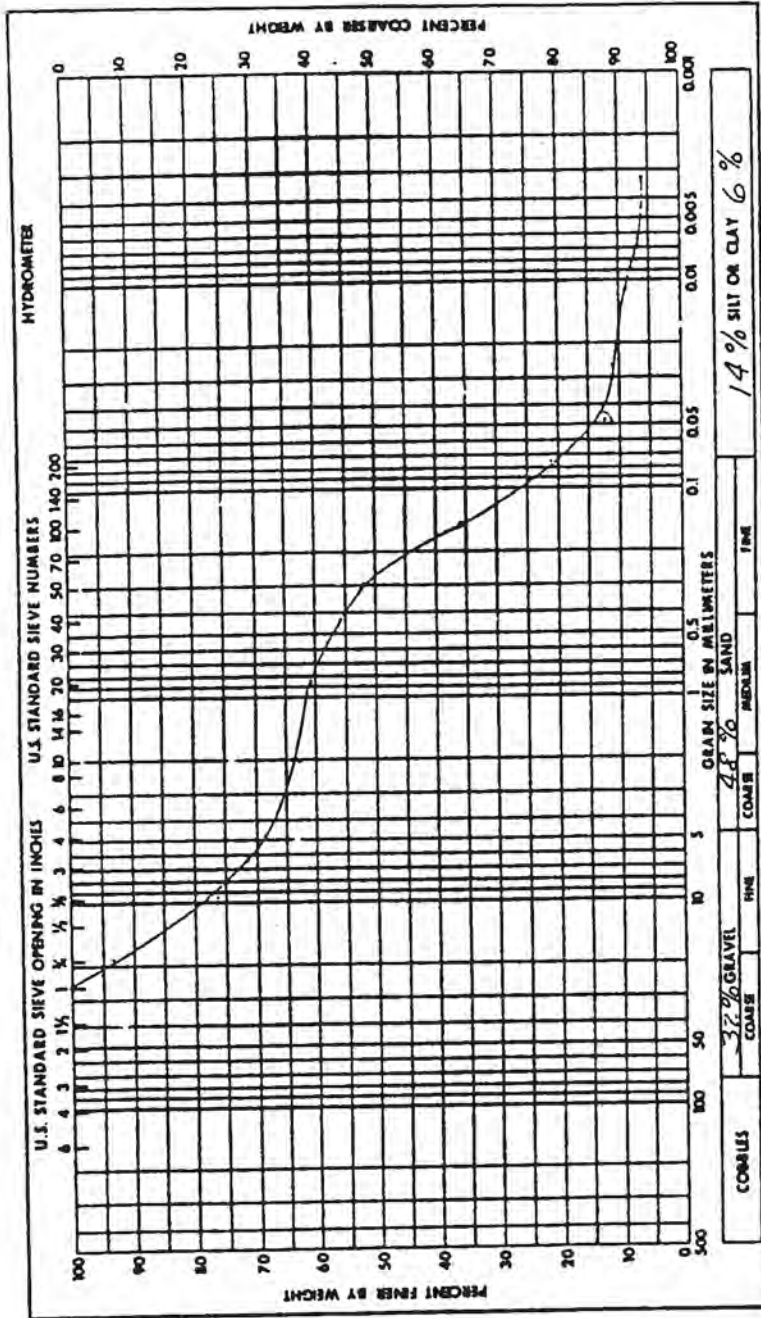
Remarks:

Soil Symbol	SM	Liquid Limit, %	26.1
Moisture Content, %	31.6	Plastic Limit, %	23.3
Specific Gravity	2.71	Plasticity Index, %	2.8
		Shrinkage Limit, %	

HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

LIQUEFACTION  
FIGURE 2.5-352

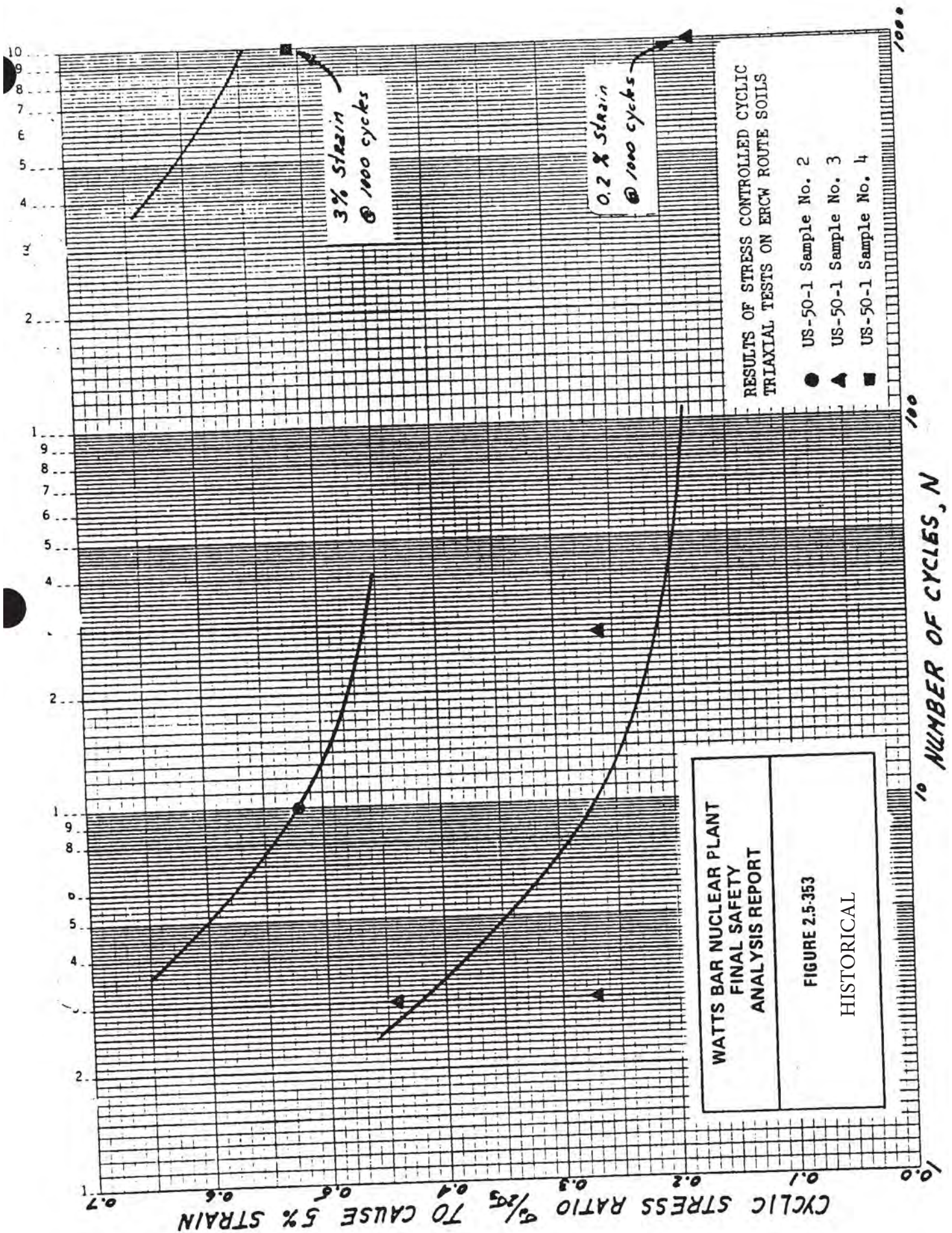


Project	Watts Bar N.P.
Feature	Liquefaction
Boring No.	W5-65-1
Sample No.	6
Station	1367.0 S
Range	1005.7 E
Date	7-13-79
Elevation	703.0-701.8
GRAIN SIZE ANALYSIS	

Remarks:

Soil Symbol	G-SM	Liquid Limit, %	NP
Moisture Content, %	16.8	Plastic Limit, %	NP
Specific Gravity	2.70	Plasticity Index, %	NP
		Shrinkage Limit, %	



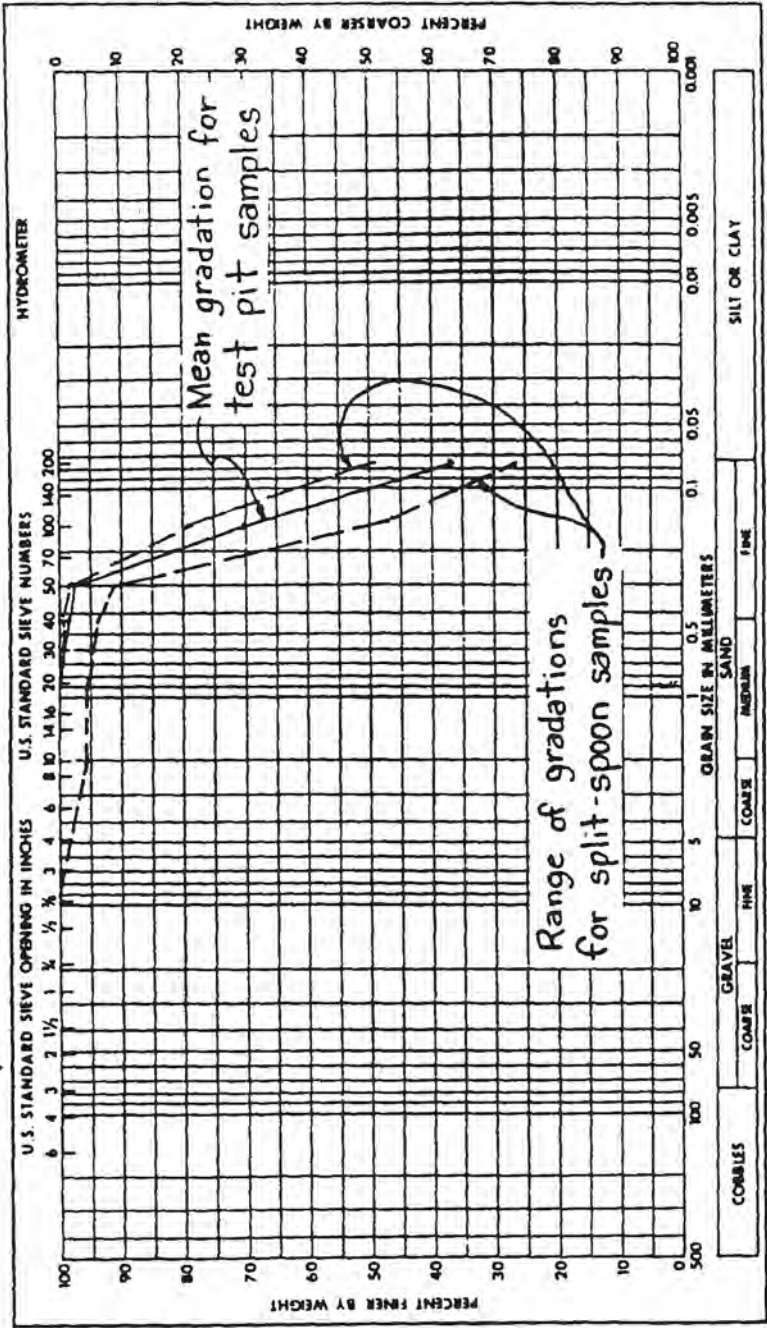




HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

LIQUEFACTION STUDY  
ERCW PIPELINE  
FIGURE 2.5-354



Project Watts Bar Nuclear Plant
Liquefaction Study
Feature ERCW Pipeline
Figure 1
GRAIN SIZE ANALYSIS

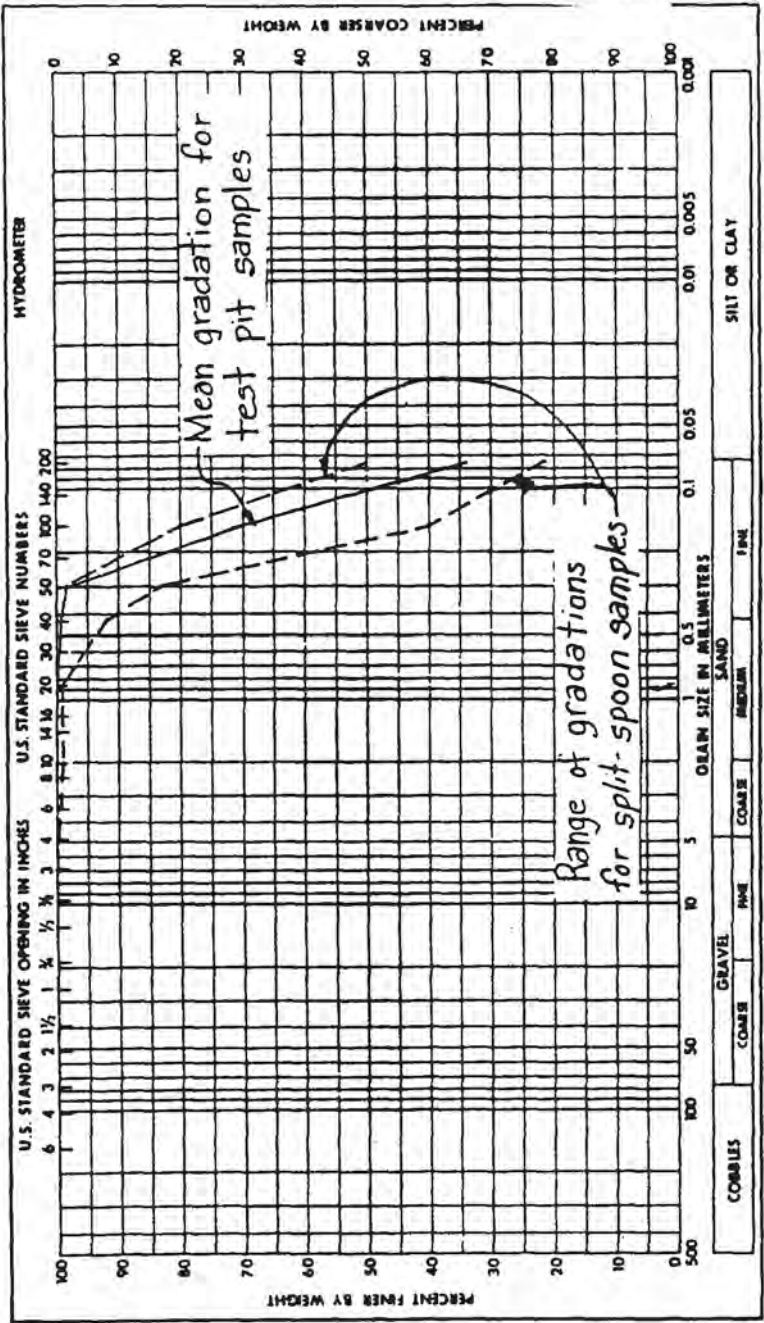
Remarks: Comparison of  
Test Pit #1 samples with SW  
samples from split-spoon  
borings 134, 134A, & 135A

Soil Symbol	Liquid Limit, %
Moisture Content, %	Plastic Limit, %
Specific Gravity	Plasticity Index, %
	Shrinkage Limit, %

HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

LIQUEFACTION STUDY  
ERCW PIPELINE  
FIGURE 2.5-355



Remarks: Comparison of  
Test Pit #2 samples with  
SM (without gravel)  
samples from split-spoon  
borings 138, 138A, 138B,  
138C, & 139

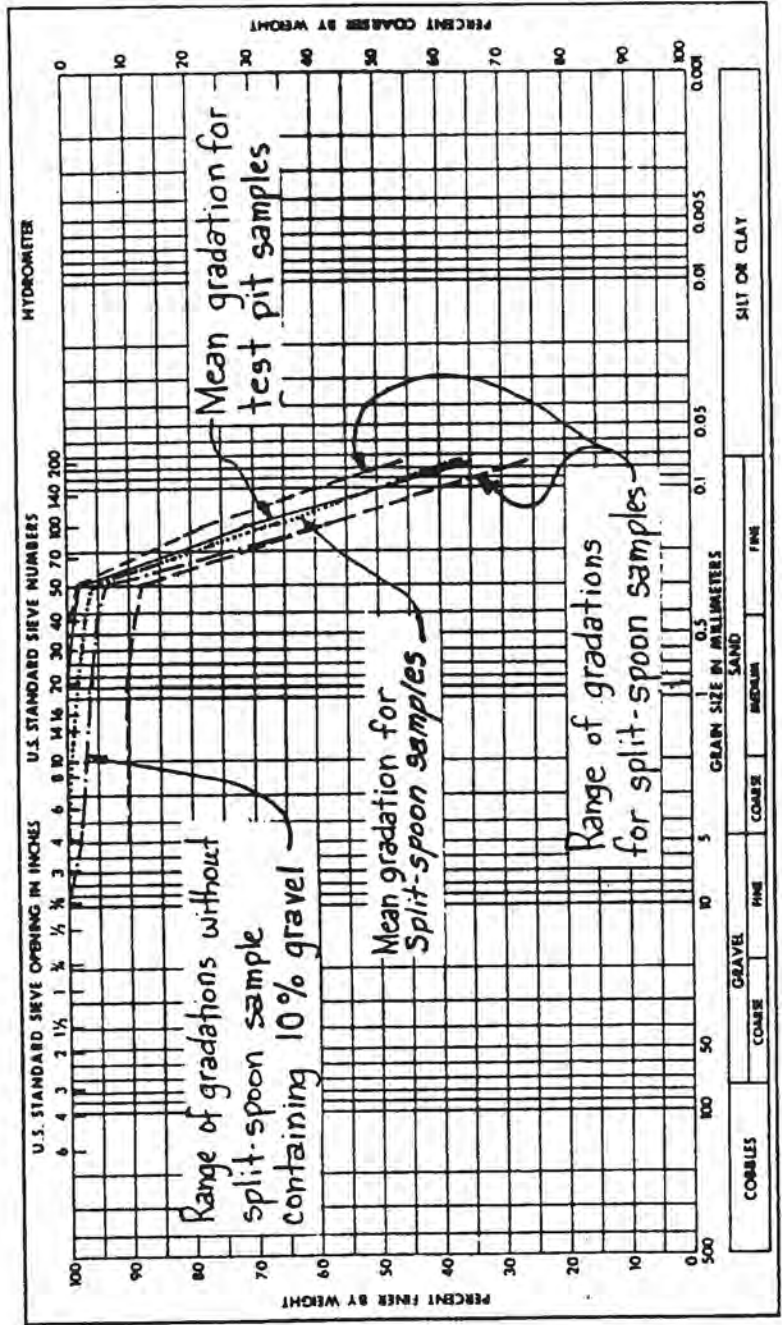
Soil Symbol	Liquid Limit, %
Moisture Content, %	Plastic Limit, %
Specific Gravity	Plasticity Index, %
	Shrinkage Limit, %



HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

LIQUEFACTION STUDY  
ERCW PIPELINE  
FIGURE 2.5-356



Project Watts Bar Nuclear Plant
Liquefaction Study
Feature ERCW Pipeline
Figure 3
GRAIN SIZE ANALYSIS

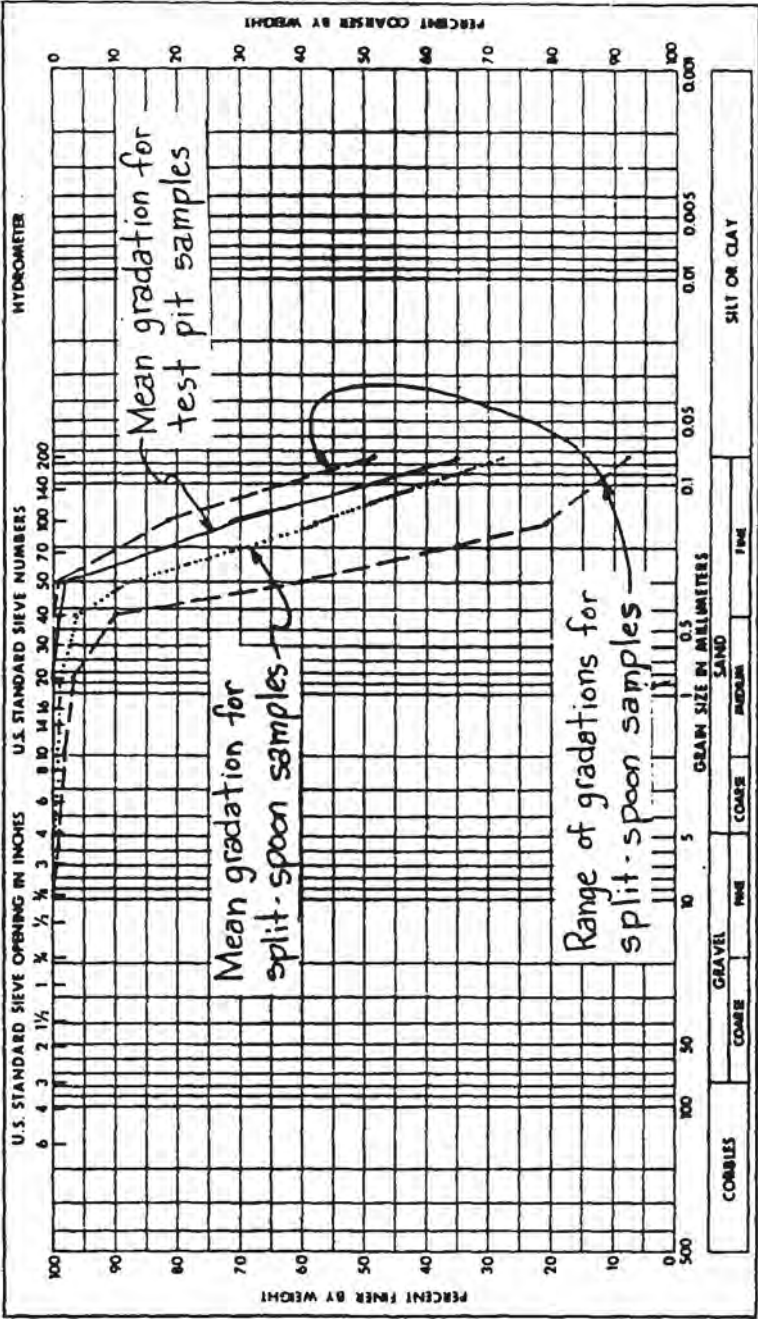
Remarks: Comparison of test pit samples with split-spoon samples from south of the cooling towers

Soil Symbol	Liquid Limit, %
Moisture Content, %	Plastic Limit, %
Specific Gravity	Plasticity Index, %
	Shrinkage Limit, %

HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

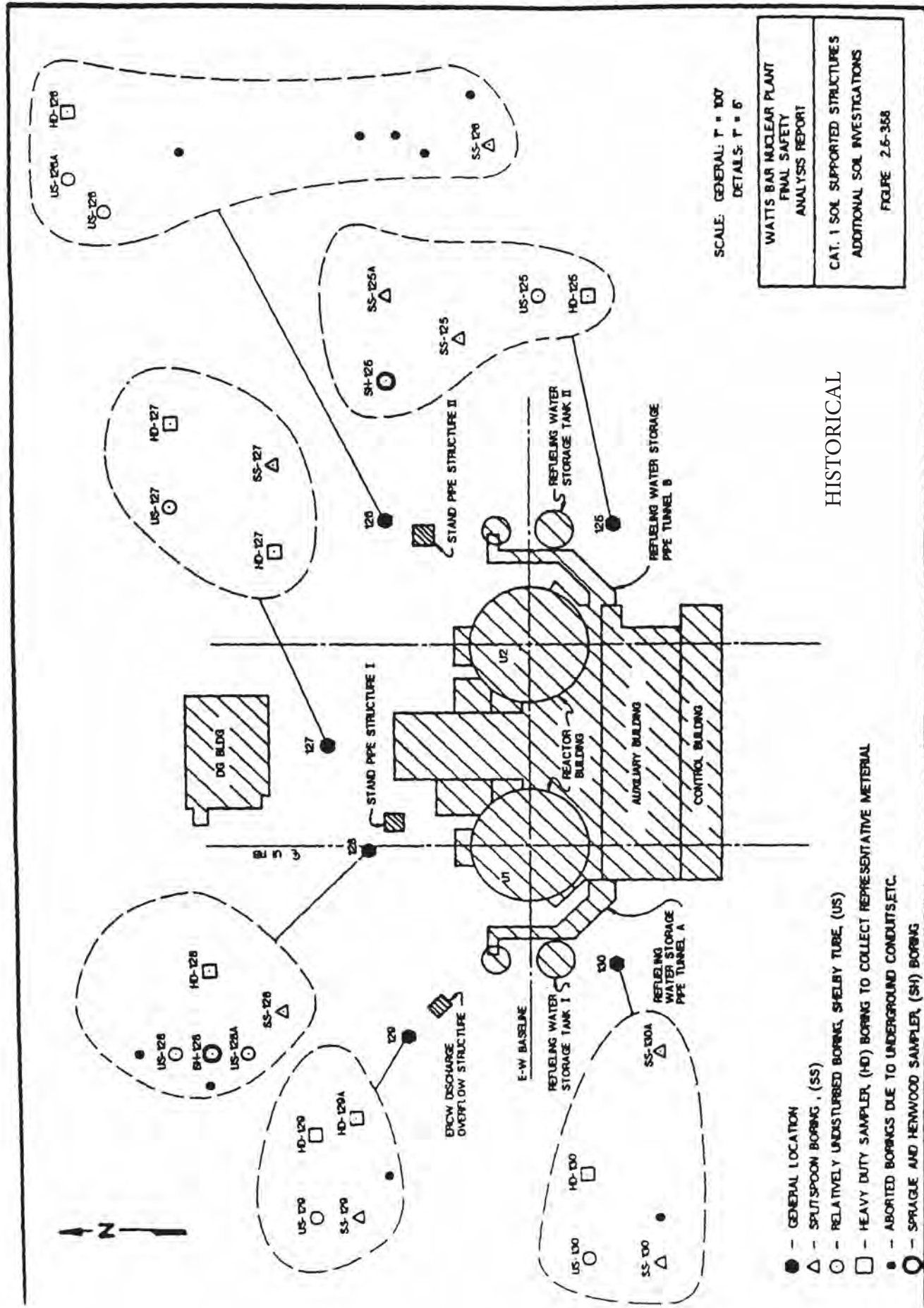
LIQUEFACTION STUDY  
ERCW PIPELINE  
FIGURE 2.5-357



Remarks: Comparison of  
test pit samples with  
split-spoon samples  
from the main plant  
area

Soil Symbol		Liquid Limit, %	
Moisture Content, %		Plastic Limit, %	
Specific Gravity		Plasticity Index, %	
		Shrinkage Limit, %	

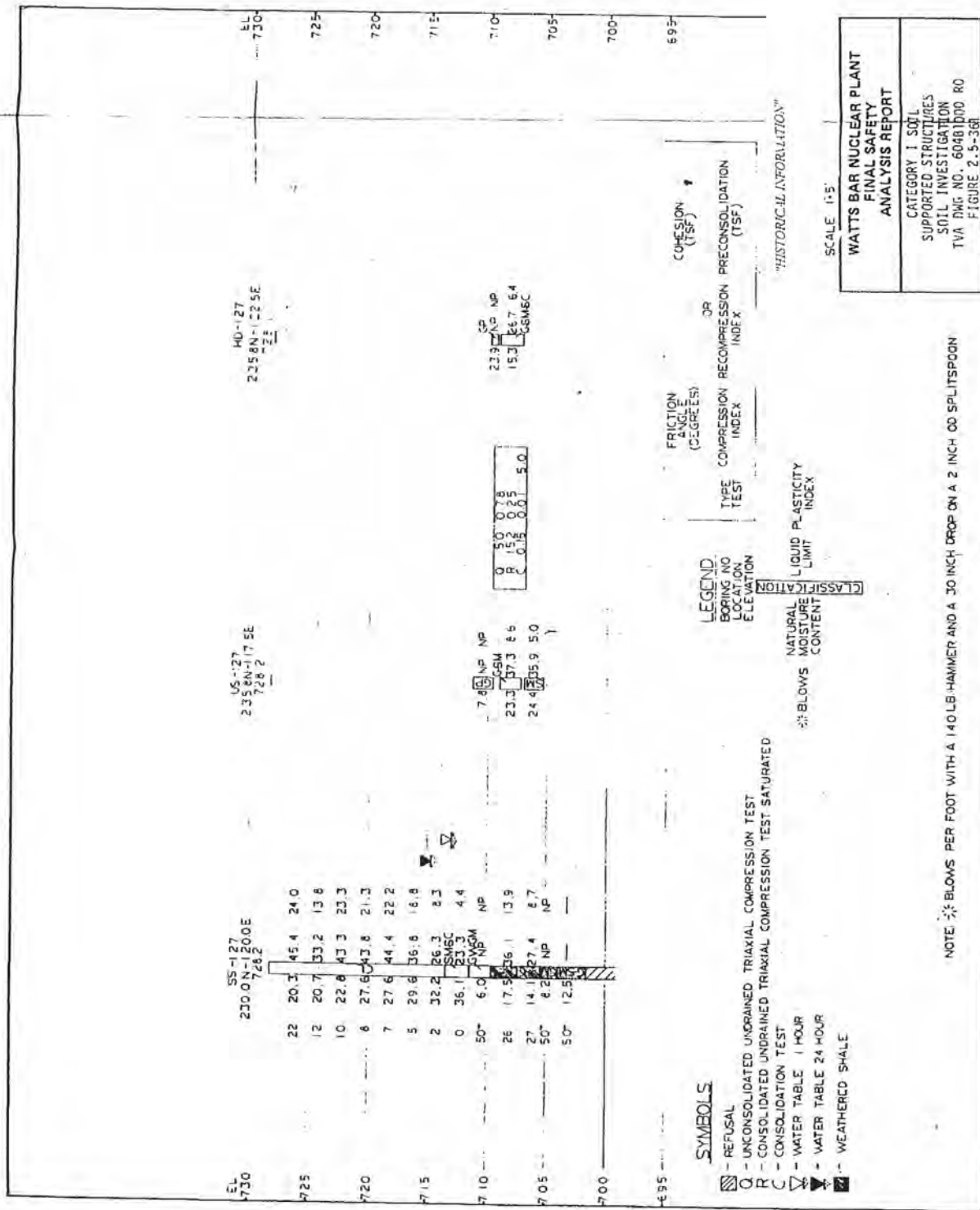




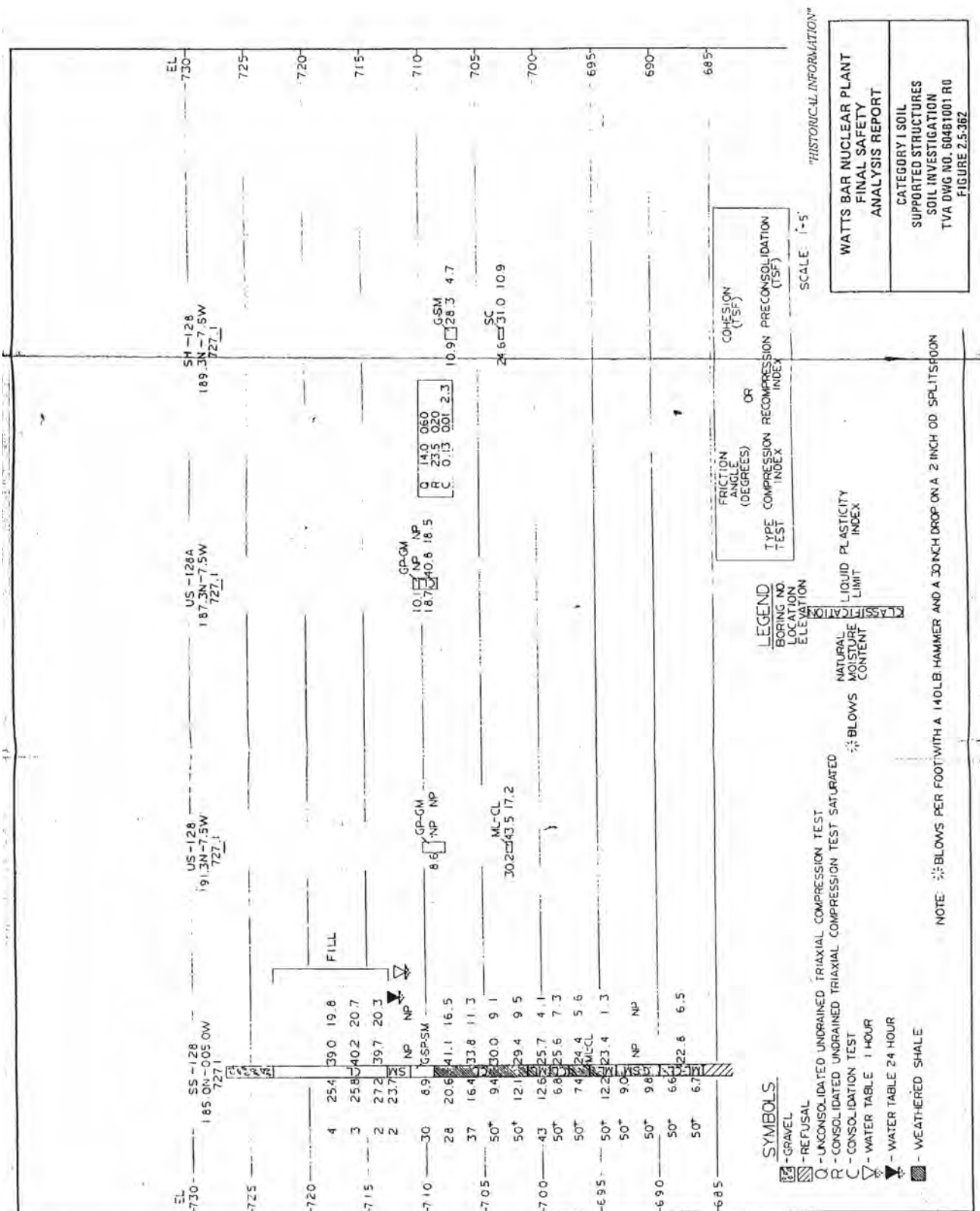


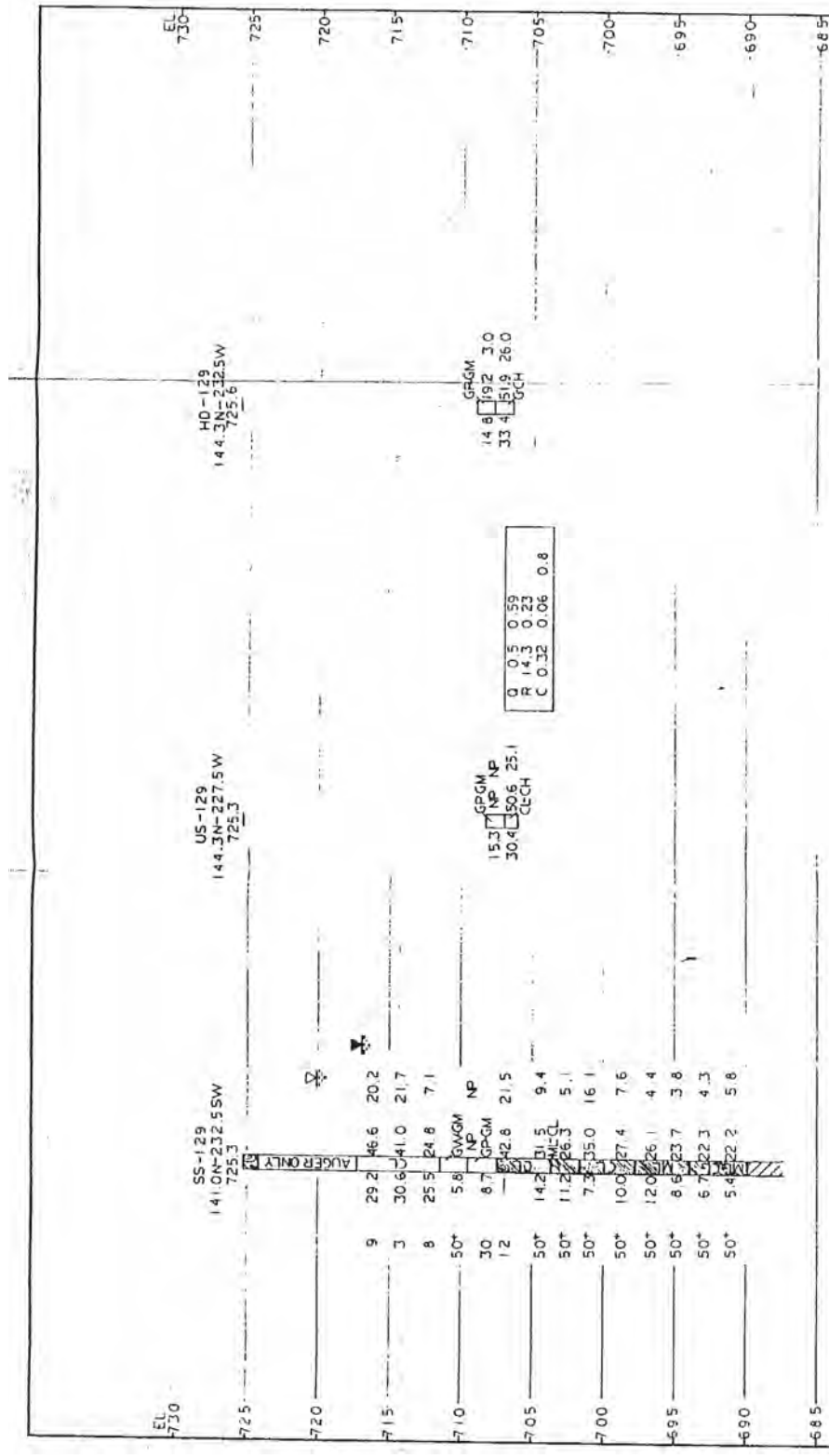












**LEGEND**

BORING NO. LOCATION ELEVATION

FRICION (POUNDS) TYPE COMPRESSION TEST

COHESION (TSF) PRECONSOLIDATION (TSF)

LIQUID PLASTICITY LIMIT INDEX

NATURAL MOISTURE CONTENT

% BLOWS

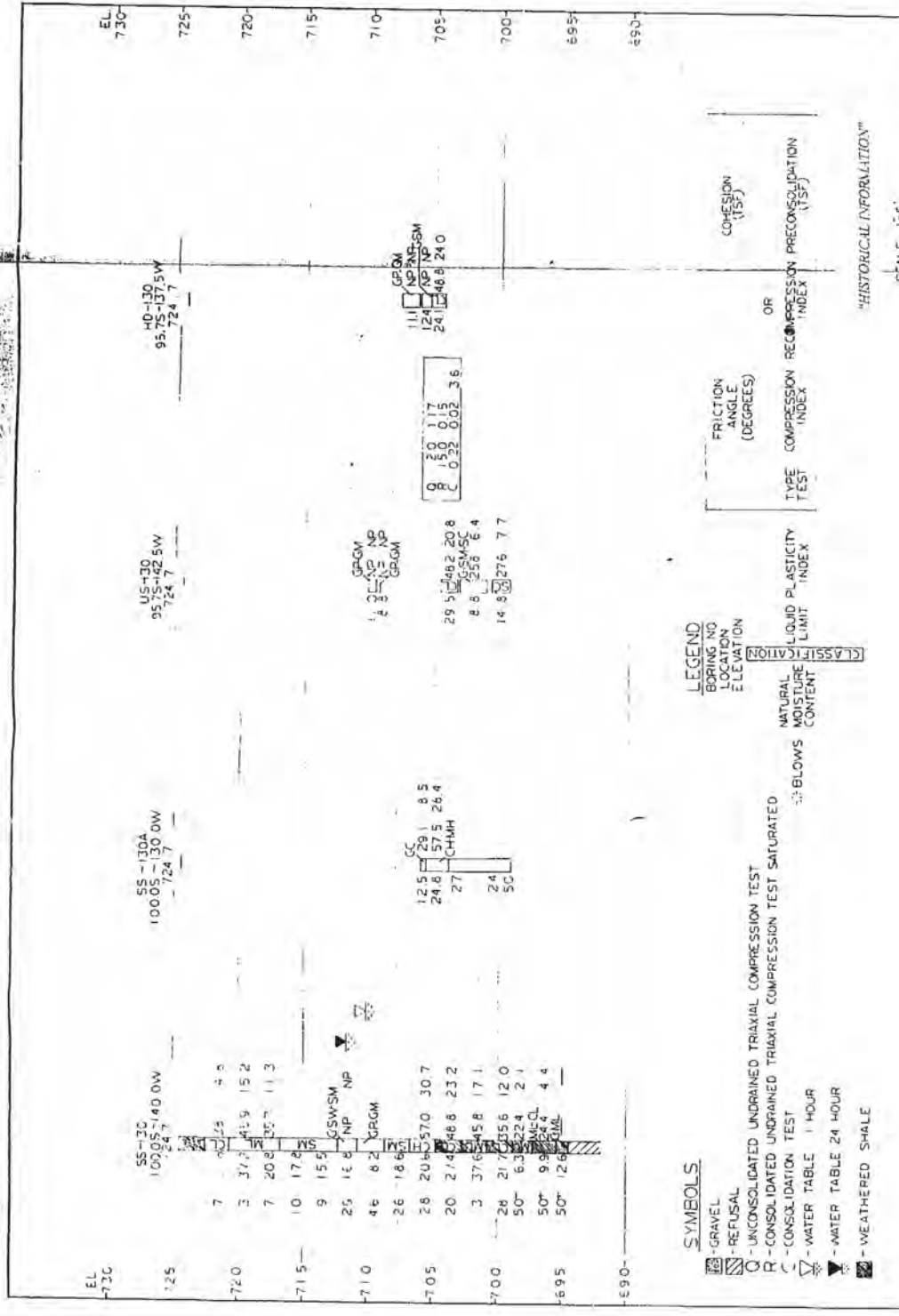
CLASSIFICATION

SCALE: 1"=5'

**WATTS BAR NUCLEAR PLANT**  
FINAL SAFETY  
ANALYSIS REPORT

CATEGORY I SOIL  
SUPPORTED STRUCTURES  
SOIL INVESTIGATION  
TVA DWG NO. 60481002 R0  
FIGURE 2.5-363

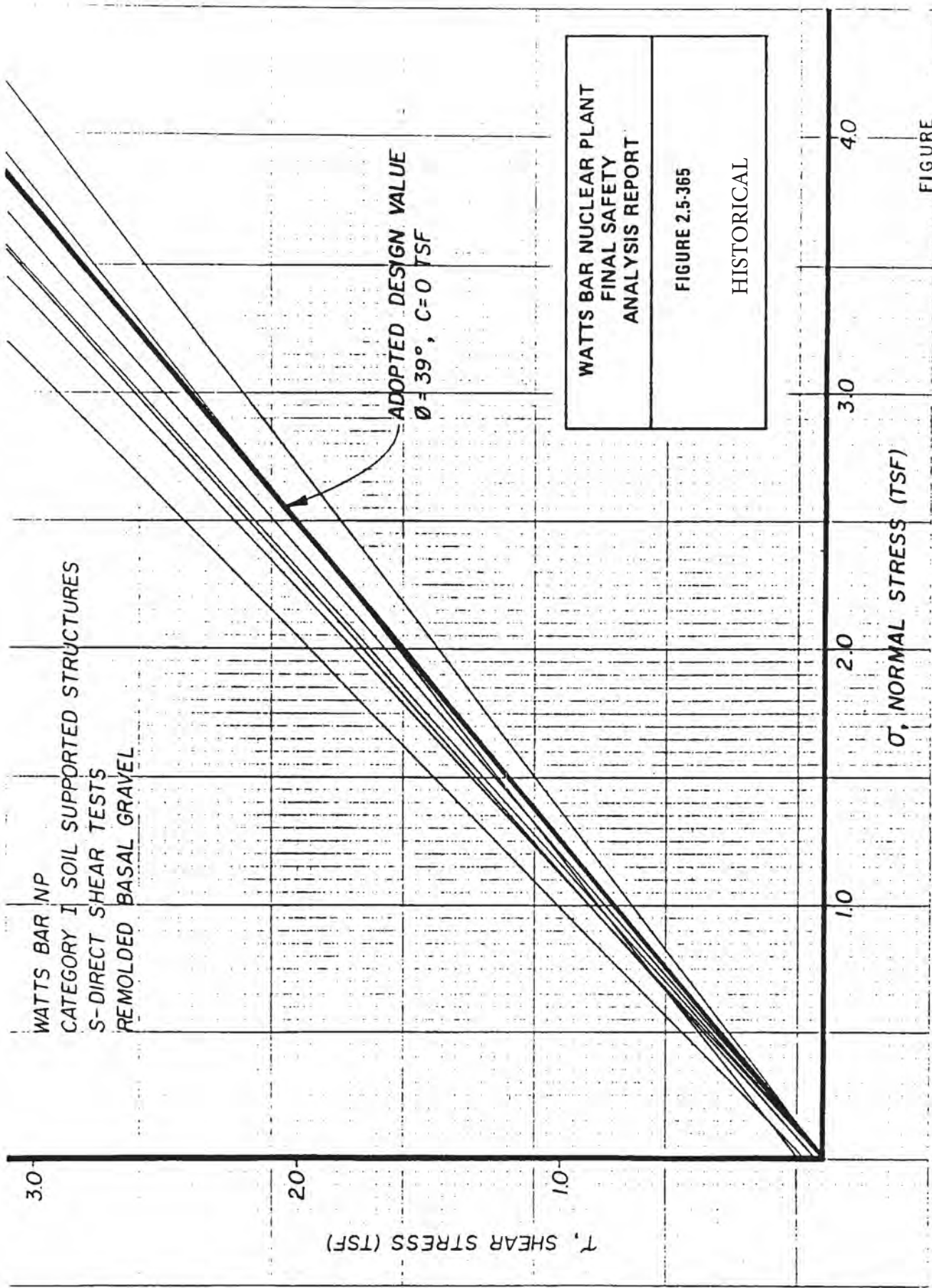
NOTE: \* BLOWS PER FOOT WITH A 140 LB. HAMMER AND A 30 INCH DROP ON A 2 INCH OD SPLITSPOON



WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT
CATEGORY I SOIL SUPPORTED STRUCTURES SOIL INVESTIGATION TVA DWG NO. 50481003 R0 FIGURE 2.5-354

NOTE: BLOWS PER FOOT WITH A 140 LB HAMMER AND A 30 INCH DROP ON A 2 INCH OD SPLITSPOON





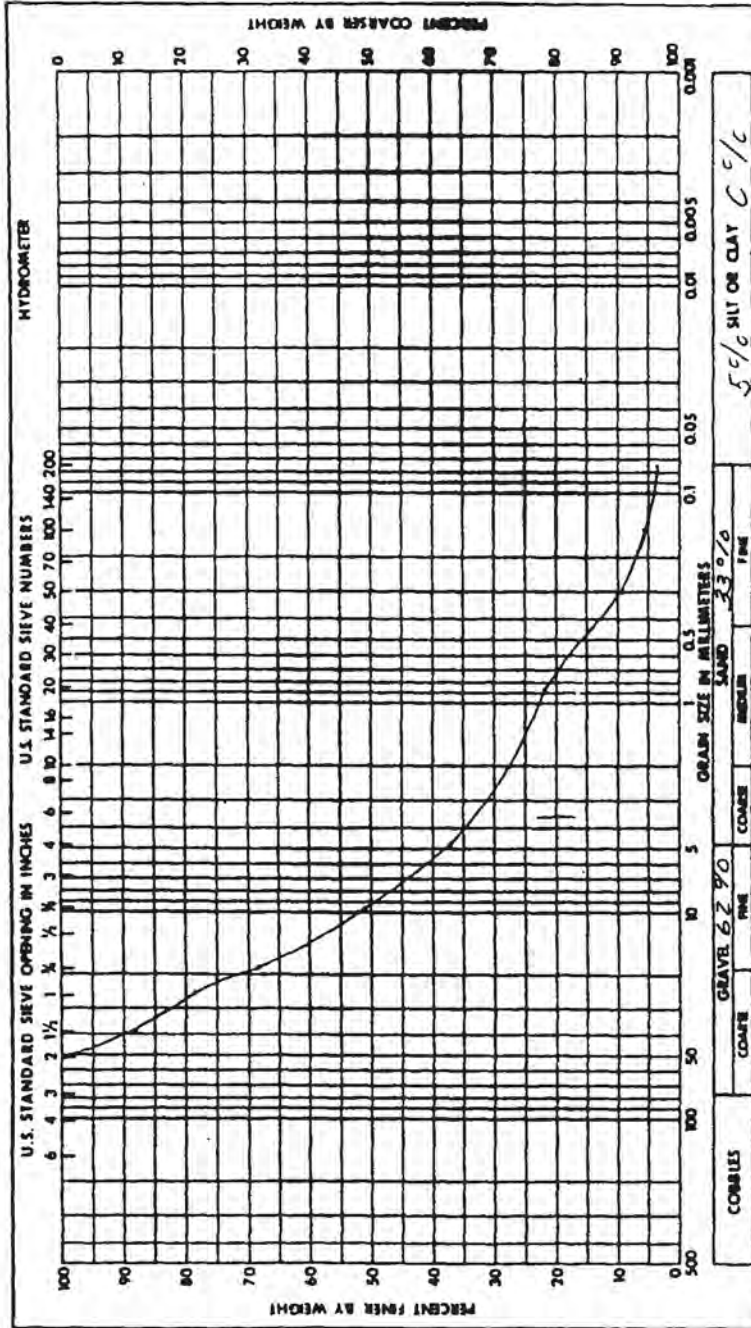
WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT
FIGURE 2.5-365 HISTORICAL

FIGURE

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

### SOIL SUPPORTED STRUCTURES FIGURE 2.5-386



Project	WATTS BAR NP
Feature	Soil Supported Structures
Boring No.	US-125
Station	104.25
Date	8-3-72
Range	382.5 E
Elevation	706.8-705.8
GRAIN SIZE ANALYSIS	

Remarks:

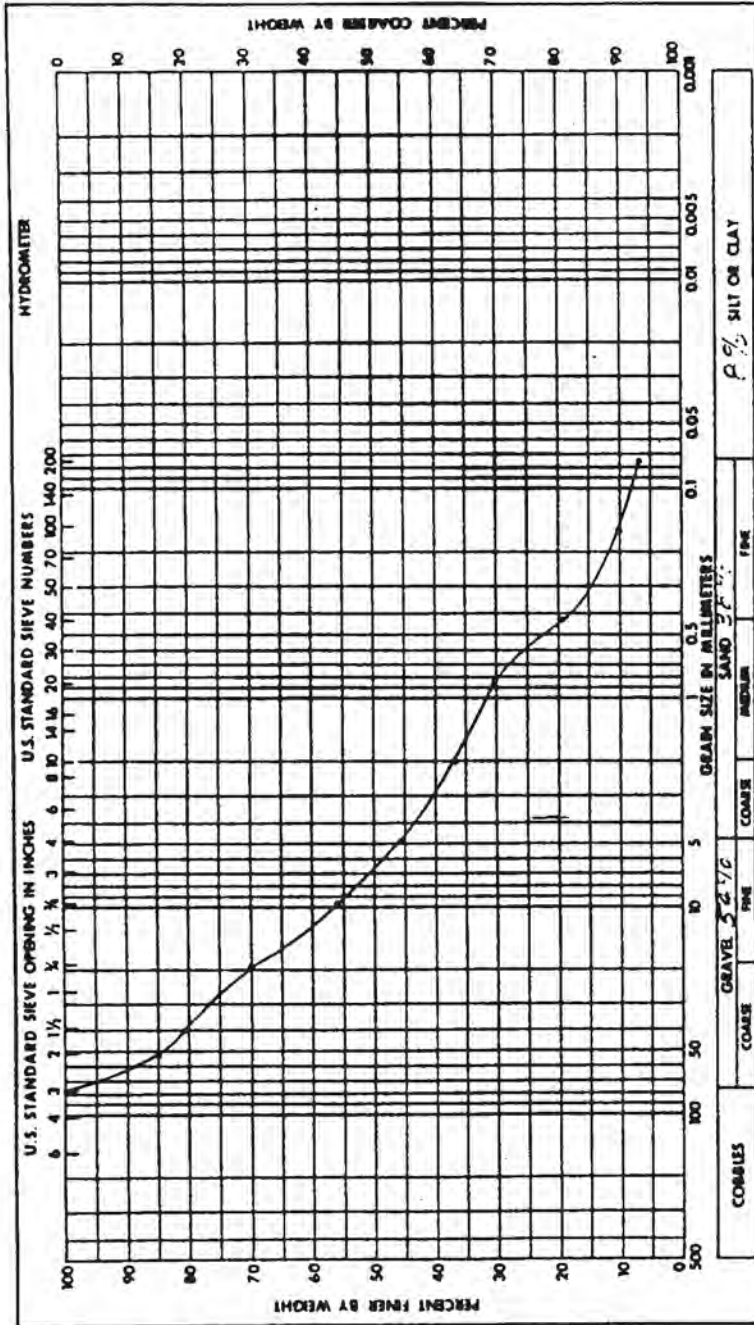
Soil Symbol	GW	Liquid Limit, %	NP
Moisture Content, %	11.1	Plastic Limit, %	NP
Specific Gravity	2.58	Plasticity Index, %	NP
		Shrinkage Limit, %	



HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL SUPPORTED STRUCTURES  
FIGURE 2.5-367



Project	WATTS BAR
Feature	Soils Supported Structure
Boring No.	US-124
Sample No.	4
Station	184.5N
Date	8-31-79
Range	379.9E
Elevation	709.6-709.7
GRAIN SIZE ANALYSIS	

Remarks:

Soil Symbol	GP-OM	Liquid Limit, %	NP
Moisture Content, %	9.1	Plastic Limit, %	NP
Specific Gravity	2.61	Plasticity Index, %	NP
		Shrinkage Limit, %	



WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

GRAVE 63-80  
COARSE FINE  
MEDIUM  
SAND 73-90  
4 1/2 Silt or Clay

Project WATTS BAF A 2

## Feature Soil Specialty Structures

Boring No. 115-127	Sample No. /
--------------------	--------------

Station 235.8 N	Range 117.5E
-----------------	--------------

Date 8-6-73	Elevation 7112.709.6
-------------	----------------------

## GRAIN SIZE ANALYSIS

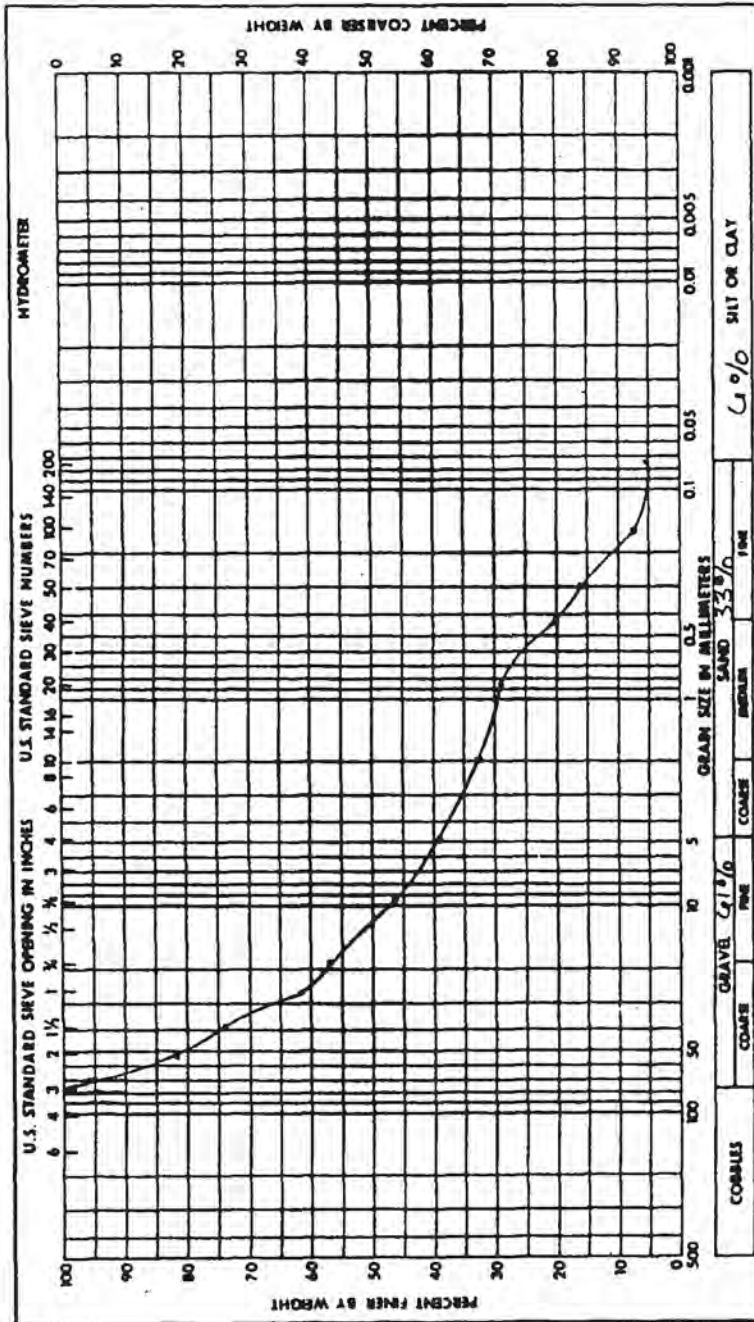
Remarks:

Soil Symbol	GP	Liquid Limit, %	NP
Moisture Content, %	7.8	Plastic Limit, %	NP
Specific Gravity	2.58	Plasticity Index, %	NP
		Shrinkage Limit, %	

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

### SOIL SUPPORTED STRUCTURES FIGURE 2.5-369



Project	WATTS BACKUP
Feature	Soil Supported Structures
Boring No.	US-138
Sample No.	2
Station	191.3 N
Range	7.5 W
Date	8-31-79
Elevation	7104-7084
GRAIN SIZE ANALYSIS	

Remarks:

Soil Symbol	GP-GM	Liquid Limit, %	NP
Moisture Content, %	8.6	Plastic Limit, %	NP
Specific Gravity	2.62	Plasticity Index, %	NP
		Shrinkage Limit, %	



WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

**GRAIN SIZE DISTRIBUTION CURVE**

U.S. STANDARD SIEVE OPENING IN INCHES: 6, 4, 3, 2, 1 1/2, 1, 3/4, 3/8, 1/2, 3/16, 1/8, 1/16, 1/32, 1/64, 1/128, 1/256, 1/512, 1/1024, 1/2048, 1/4096, 1/8192, 1/16384, 1/32768, 1/65536, 1/131072, 1/262144, 1/524288, 1/1048576, 1/2097152, 1/4194304, 1/8388608, 1/16777216, 1/33554432, 1/67108864, 1/134217728, 1/268435456, 1/536870912, 1/1073741824, 1/2147483648, 1/4294967296, 1/8589934592, 1/17179869184, 1/34359738368, 1/68719476736, 1/137438953472, 1/274877906944, 1/549755813888, 1/1099511627776, 1/2199023255552, 1/4398046511104, 1/8796093022208, 1/17592186044416, 1/35184372088832, 1/70368744177664, 1/140737488355328, 1/281474976710656, 1/562949953421312, 1/1125899906842624, 1/2251799813685248, 1/4503599627370496, 1/9007199254740992, 1/18014398509481984, 1/36028797018963968, 1/72057594037927936, 1/144115188075855872, 1/288230376151711744, 1/576460752303423488, 1/1152921504606846976, 1/2305843009213693952, 1/4611686018427387904, 1/9223372036854775808, 1/18446744073709551616, 1/36893488147419103232, 1/73786976294838206464, 1/147573952589676412928, 1/295147905179352825856, 1/590295810358705651712, 1/1180591620717411303424, 1/2361183241434822606848, 1/4722366482869645213696, 1/9444732965739290427392, 1/18889465931478580854784, 1/37778931862957161709568, 1/75557863725914323419136, 1/151115727451828646838272, 1/302231454903657293676544, 1/604462909807314587353088, 1/1208925819614629174706176, 1/2417851639229258349412352, 1/4835703278458516698824704, 1/9671406556917033397649408, 1/19342813113834066795298816, 1/38685626227668133590597632, 1/77371252455336267181195264, 1/154742504910672534362390528, 1/309485009821345068724781056, 1/618970019642690137449562112, 1/1237940039285380274899124224, 1/2475880078570760549798248448, 1/4951760157141521099596496896, 1/9903520314283042199192993792, 1/19807040628566084398385987584, 1/39614081257132168796771975168, 1/79228162514264337593543950336, 1/158456325028528675187087900672, 1/316912650057057350374175801344, 1/633825300114114700748351602688, 1/1267650600228229401496703205376, 1/2535301200456458802993406410752, 1/5070602400912917605986812821504, 1/10141204801825835211973625643008, 1/20282409603651670423947251286016, 1/40564819207303340847894502572032, 1/81129638414606681695789005144064, 1/162259276829213363391578010288128, 1/324518553658426726783156020576256, 1/649037107316853453566312041152512, 1/1298074214633706907132624082305024, 1/2596148429267413814265248164610048, 1/5192296858534827628530496329220096, 1/10384593717069655257060992658440192, 1/20769187434139310514121985316880384, 1/41538374868278621028243970633760768, 1/83076749736557242056487941267521536, 1/166153499473114484112975882535043072, 1/332306998946228968225951765070086144, 1/664613997892457936451903530140172288, 1/1329227995784915872903807060280344576, 1/2658455991569831745807614120560689152, 1/5316911983139663491615228241121378304, 1/10633823966279326983230456482242756608, 1/21267647932558653966460912964485513216, 1/42535295865117307932921825928971026432, 1/85070591730234615865843651857942052864, 1/170141183460469231731687303715884105728, 1/340282366920938463463374607431768211456, 1/680564733841876926926749214863536422912, 1/1361129467683753853853498429727072845824, 1/2722258935367507707706996859454145691648, 1/5444517870735015415413993718908291383296, 1/10889035741470030830827987437816582766592, 1/21778071482940061661655974875633165533184, 1/43556142965880123323311949751266331066368, 1/87112285931760246646623899502532662132736, 1/174224571863520493293247799005065324265472, 1/348449143727040986586495598010130648530944, 1/696898287454081973172991196020261297061888, 1/1393796574908163946345982392040522594123776, 1/2787593149816327892691964784081045188247552, 1/5575186299632655785383929568162090376495104, 1/11150372599265311570767859136324180752990208, 1/22300745198530623141535718272648361505980416, 1/44601490397061246283071436545296723011960832, 1/89202980794122492566142873090593446023921664, 1/17840596158824498513228574618118689204784

Project Watts Bar N.P.	
Feature Soil Support Structure	
Boring No. 45-129	Sample No. 3 P-2
Station 144-3 N	Range 227.5 W
Date 9-4-79	Elevation 708.3-707.6
GRAIN SIZE ANALYSIS	

Remarks:

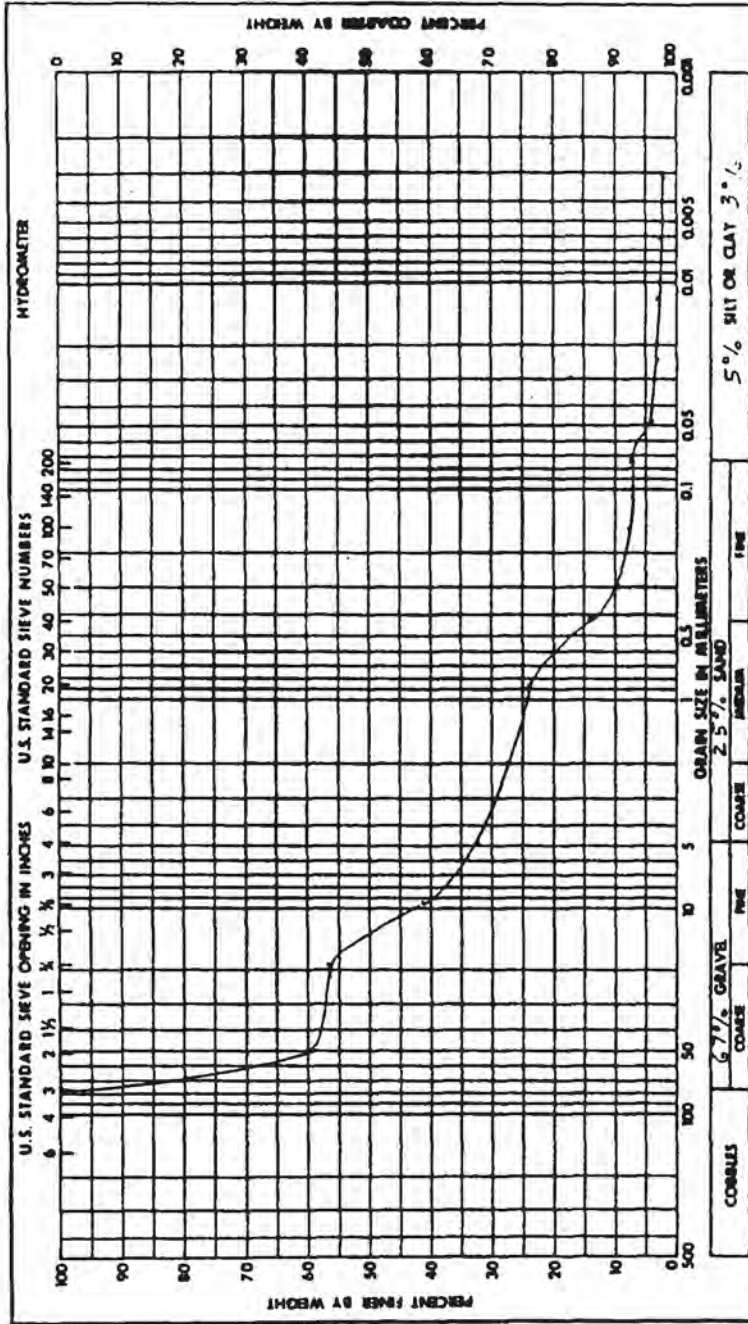
Soil Symbol	6P-611	Liquid Limit, %	NP
Moisture Content, %	15.3	Plastic Limit, %	NP
Specific Gravity	2.62	Plasticity Index, %	NP
		Shrinkage Limit, %	



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

### SOIL SUPPORTED STRUCTURES FIGURE 2.5-371



Project	WATTS BAR NPP
Feature	Soil Supported Structure
Boring No.	US-130
Sample No.	2 P2
Station	95.75
Range	142.5' W
Date	9-4-79
Elevation	709.7-709.4
GRAIN SIZE ANALYSIS	

Remarks:

Soil Symbol	6P6M	Liquid Limit, %	NP
Moisture Content, %	2.8	Plastic Limit, %	NP
Specific Gravity	2.59	Plasticity Index, %	NP
		Shrinkage Limit, %	--

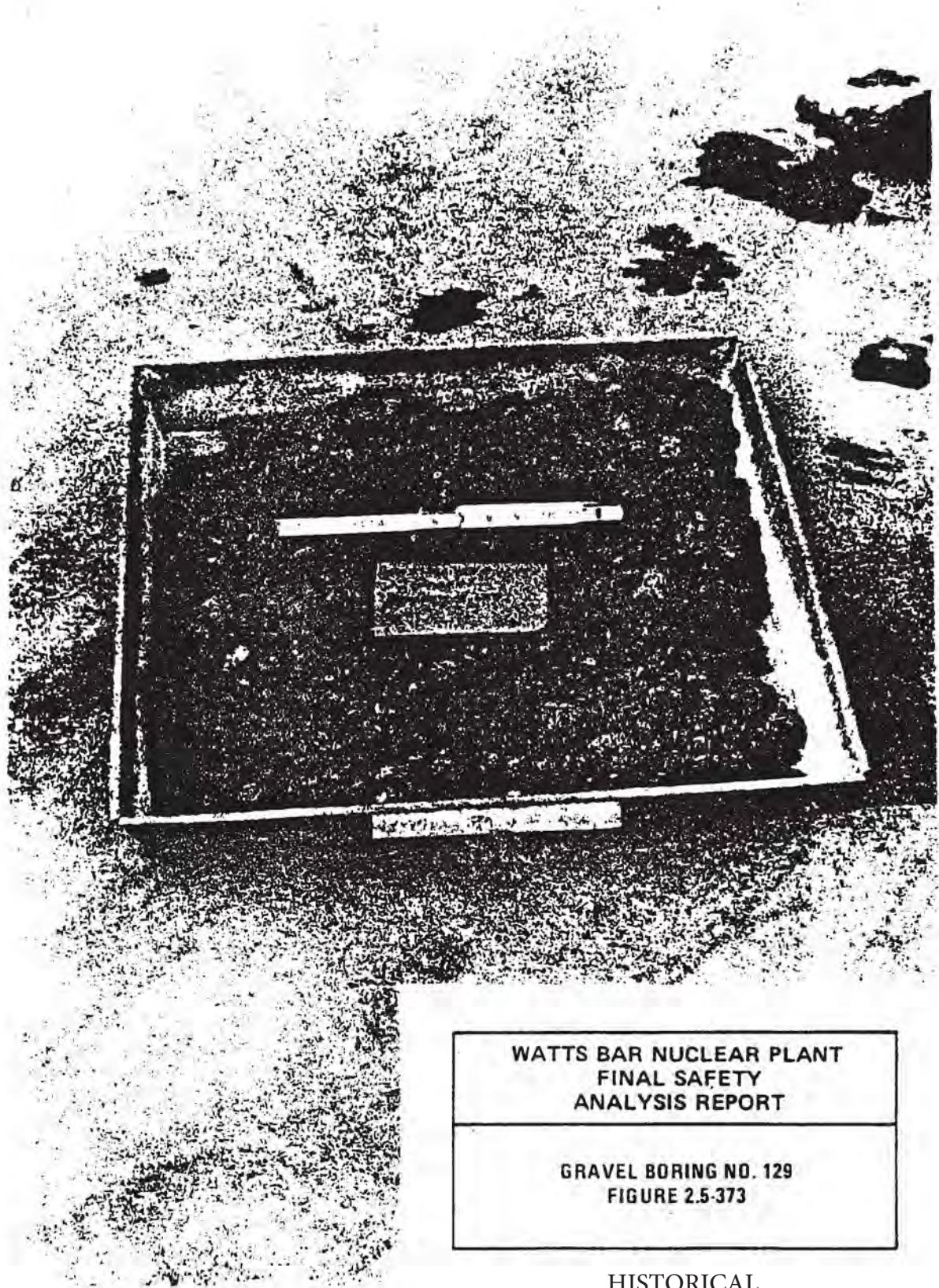


**WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT**

**GRAVEL BORING NO. 125  
FIGURE 2.5-372**

HISTORICAL





**WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT**

**GRAVEL BORING NO. 129  
FIGURE 2.5-373**

HISTORICAL



WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

FIGURE 2.5-374  
HISTORICAL

WATTS BAR NP  
CATEGORY I SOIL SUPPORTED STRUCTURES  
Q - UNCONSOLIDATED - UNDRAINED TESTS  
FINE GRAINED SOILS  
UNDISTURBED SAMPLES

3.0

2.0

1.0

$\tau$ , SHEAR STRESS (TSF)

ADOPTED DESIGN VALUE  
 $\phi=0, c=0.8$  TSF

1.0

2.0

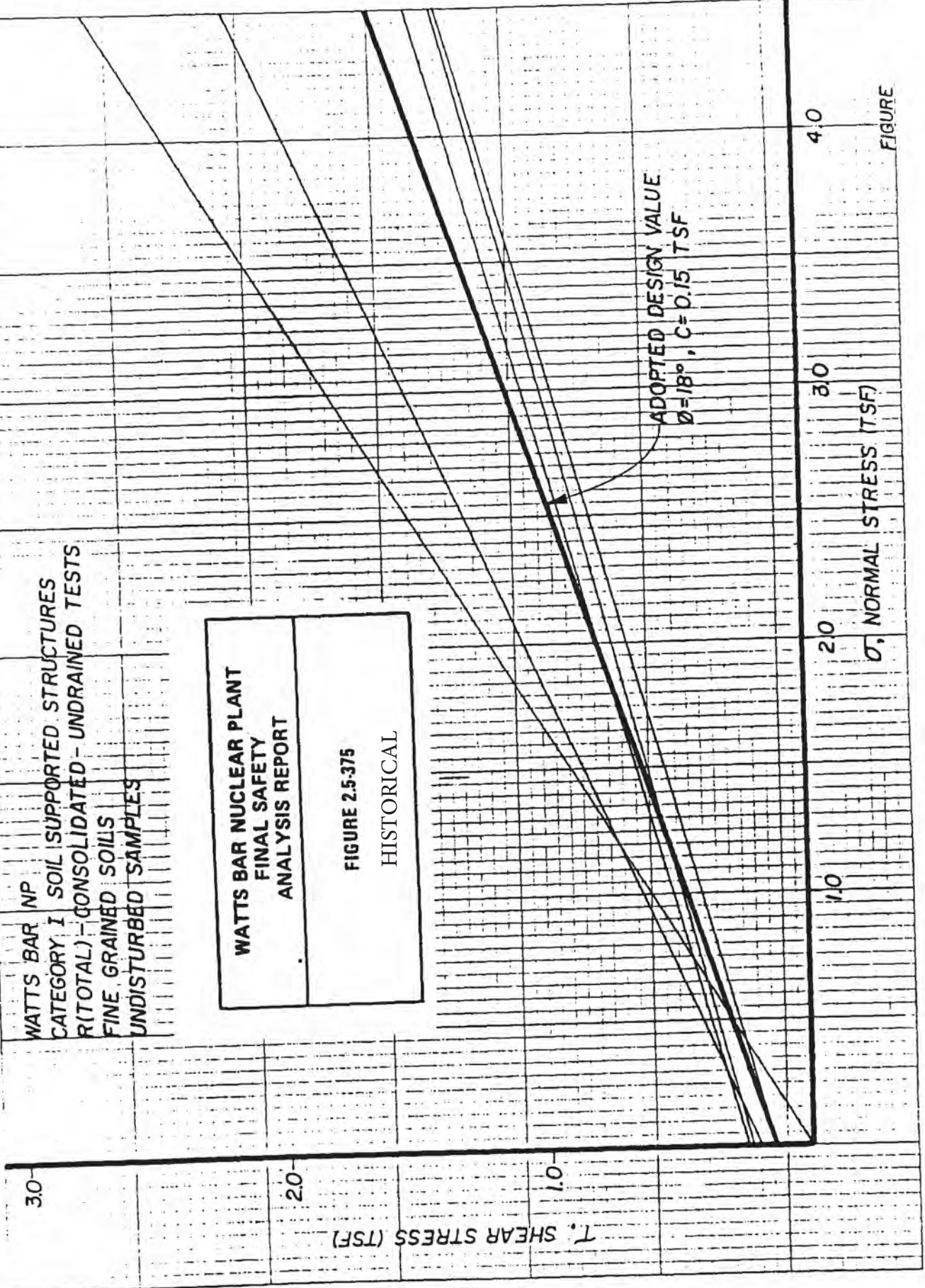
3.0

4.0

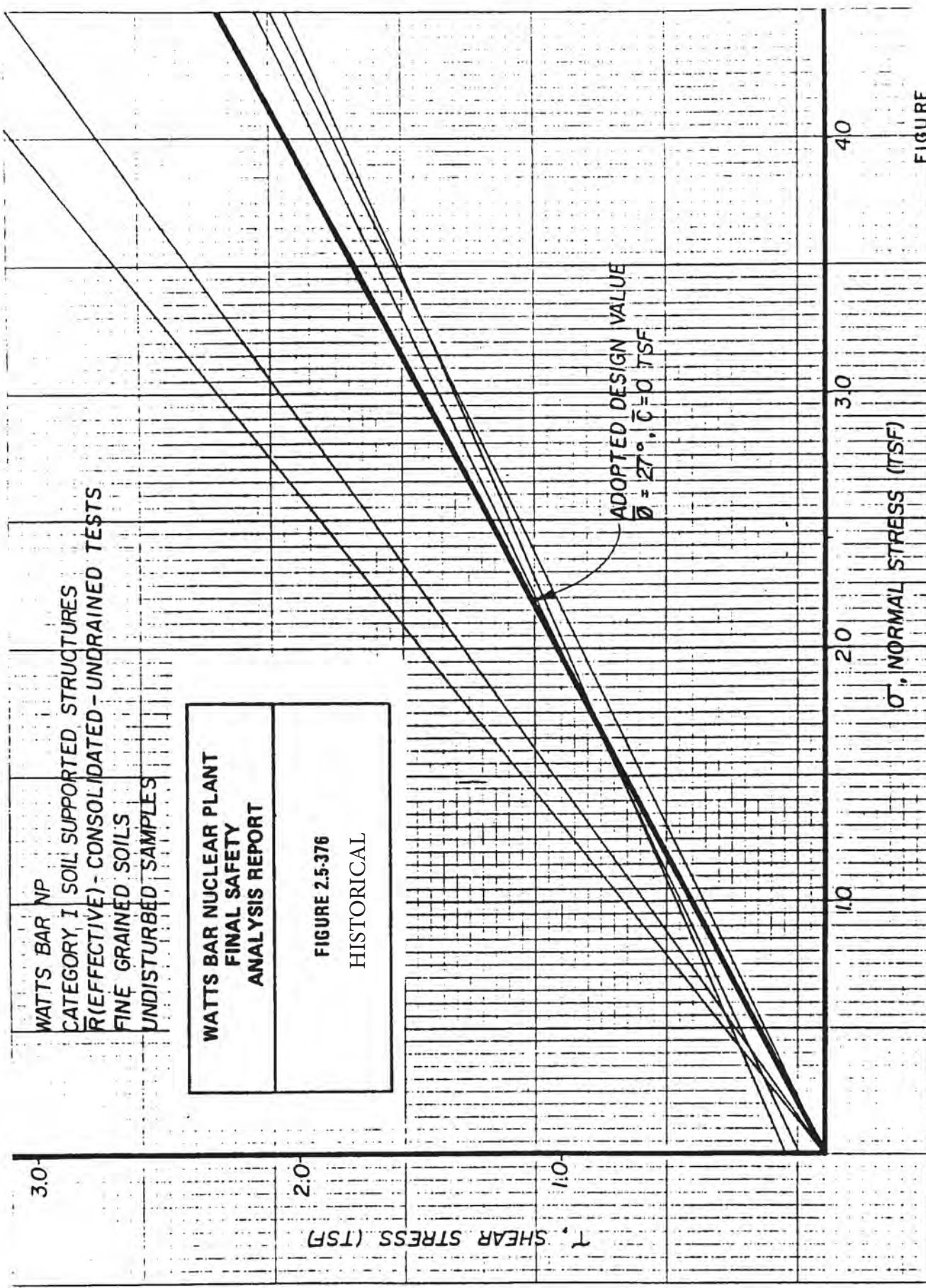
$\sigma$ , NORMAL STRESS (TSF)

FIGURE









FIGURE



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-377  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: ERCW TRENCH A  
BORING: PAH-1 STATION: 8+85.2 RANGE: SURFACE EL: 730.2  
DATE DRILLED: 5/30/83 TO PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	730						TOPSOIL
			US	12.2	29	12	GV CL, BRN, MST, SP FL
5	725		US	13.0	29	12	GV CL, BRN, V MST, SP FL
10	720			8.8			(SHALE SHOTROCK) CL GV, GY, MST, SP FL
15	715			7.3			(SHALE SHOTROCK) CL GV, GY, MST, SP FL
20	710		Σ US	25.8	29	7	SD SI, R-BRN, MST, MIC, ALL ORIG SOIL
25	705		Σ	16.5	NP	NP	SI SD, R-BRN, V MST, ALL
			CL	10.6	33	14	SI SD, ±20% GV, R-BRN, W, ALL
				26.3			ROU AUGG - GV WEATHERED SHALE
30	700						DISCONTINUED. EL 700.7
35							
1' = 5'			* Lcb. Classif.				

## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-378  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-2 STATION: 7+00  
DATE DRILLED: 5/27/83 TO

FEATURE: ERCW TRENCH A  
RANGE: SURFACE EL: 733.4  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	730		U S	11.8	30	13	SD GV, BRN-GY, WOOD, MST, SP FL
10	725		U S	10.3	30	13	SD GV, BRN; WOOD, WIRE & PLASTIC DBR, MST, SP FL
15	720		U S	12.1	30	13	GV SI CL, BRN, MST, SP FL
20	715		U S	20.3	30	13	SI CL, TR GV, BRN, V MST, SP FL
			SC	16.2	30	13	GV CL, BRN, MST, SP FL
25	710		U S	22.0	30	13	SI CL, BRN, MST, ALL, ORIG SOIL
30	705		Σ U S	32.5	27	5	SD SI, R-BRN, V MST, ALL, MIC
35	700		Σ U S	32.3	27	5	SD SI, R BRN, V MST, ALL, MIC
1' = 5'							WEATHERED SHALE
				18 ft.			DISCONTINUED EL 697.2

\* Lab. CTOS 1 f.



## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.6-379  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.

FEATURE: ERCW TRENCH A

BORING: PAH-3 STATION: 5+50

RANGE: SURFACE EL: 728.9

DATE DRILLED: 5/27/83 TO

PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	725		US	12.0	30	13	SPOIL FILL GV CL, BRN-GY, MST, WOOD, SP FL
10	720		US	15.5	33	14	SI CL, BRN, MST, SP FL
15	715		US	22.6	30	13	SI CL - FT CL MIX, BRN-GY, V MST, SP FL
20	710		US	18.9	30	13	SI CL, BRN, MST, ALL, ORIG SOIL
25	705		US	20.0	30	13	SI CL, BRN, MST, ALL
30	700		US	18.8	30	13	SI CL, BRN, V MST, ALL
			Σ US	24.5	29	7	CL SI SD, BRN, W, ALL
			CH	34.9	54	35	FT CL, GY, V MST, MIC, ALL <del>WEATHERED SHALE</del>
35	695			17.6			DISCONTINUED. EL 696.5
1"=5'			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-380  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-4 STATION: 4+00  
DATE DRILLED: 5/27/83 TO

FEATURE: ERCW TRENCH A  
RANGE: SURFACE EL: 720.5  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	720			10.4	25	8	SOD - TOPSOIL
			US				GV CL SD, GY-R, MST, SP FL
	715		US	11.2	25	8	GV CL SD, GY-R, MST, SP FL
10	710		CL	17.7	27	11	SI SD, GY, V MST, ALL
15	705		CL	20.1	27	11	SI SD CL, BRN, W, ALL
			CL	20.5	27	11	SD CL, TR GY, BRN, V MST, ALL
20	700		SP-SM	28.3	NP	NP	SI SD, BRN, W, ALL
25	695						REFUSAL - SHALE. EL 698.5
30	690						
35							
1' = 5'			* Lab. Classif.				



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-381  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-5 STATION: 2+50  
DATE DRILLED: 5/31/83 TO

FEATURE: ERCW TRENCH A  
RANGE: SURFACE EL: 712.3  
PREPARED BY: MHD CHECKED BY: SA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	710			21.1	36	16	TOPSOIL
			CL				SI CL, BRN, MST, ALL
10	705		CL	23.0	36	16	SI CL, BRN, MST, ALL
			CL				SI CL, BRN, MST, ALL
15	700		CL	22.9	36	16	SI CL, TR RD GV, BRN, MST, ALL
			CL				SI CL, TR RD GV, BRN, V MST, ALL
20	695		CL	20.8	36	16	SI CL, DK BRN, V MST, ALL
			CL				CL SI, DK BRN, W, ALL
25	690		CL	26.2	27	11	CL SI, DK BRN, W, ALL
			CL				CL SI, DK BRN, W, ALL
30	685			17.9			WEATHERED SHALE
							DISCONTINUED. EL 685.8
35	680						
1''=5'			* Lab. Classif.				

## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5.382  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-6 STATION: 1+00  
DATE DRILLED: 5/31/83 TO

FEATURE: ERCW TRENCH A  
RANGE: SURFACE EL: 707.1  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	705		J U	17.7	33	14	GV CL, BRN, MST, SP FL
10	700		$\Sigma$ U S S	22.4	29	7	SD CL, TN, MST, ALL (ORIG SOIL)
	695		$\Sigma$ U S S	23.7	29	7	SD CL, TN V MST, ALL
15			$\Sigma$ U S S	35.8	27	5	CL SD, TR RD FN GV, TN, W, ALL
	690			17.8			WEATHERED SHALE
20							DISCONTINUED. EL 688.1
	685						
25							
	680						
30							
	675						
35							
1''=5'			* Lab. Classif.				



## HISTORICAL

**WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT**

SOIL PROFILE  
FIGURE 2.5-383  
SHEET 1 OF 2

PROJECT: WATTS BAR N.P.      FEATURE: ERCW TRENCH B  
BORING: PAH-1      STATION: 1+00  $\pm$       RANGE:      SURFACE EL: 712.0  
DATE DRILLED: 5/31/83 TO      PREPARED BY: MHD      CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	710		CL	18.4	26	8	SD SI CL, BRN, MST, FL
			CL	14.7	35	13	SI CL, BRN, MST, TR GV, FL
10	705		CL	17.2	35	13	SD CL, BRN, MST, ALL (ORIG SOIL)
			CL	20.6	26	8	SD CL, BRN, MST, ALL
15	695		CL	25.0	26	8	SI CL, BRN, MST, ALL
			$\Sigma$ S	25.1	27	3	ALT STRATA - SI SD & CL SI, TN-BRN, V MST, ALL
25	685		$\Sigma$ S	30.2	NP	NP	ALT STRATA - SI SD & CL SI, TN-BRN, W, ALL
			$\Sigma$ S	26.7	NP	NP	SI SD, GY-TN, V MST, ALL
35	680		$\Sigma$ S	21.0	NP	NP	SI SD, TN, V MST, ALL
1' = 5'			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-383  
SHEET 2 OF 2

PROJECT: WATTS BAR N.P.

FEATURE: ERCW TRENCH B

BORING: PAH-1 STATION: 1+00

RANGE: SURFACE EL: 712.0

DATE DRILLED: 5/31/83 TO

PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (CN)	* LOG	W	LL	PI	FIELD DESCRIPTION
40	675		$\frac{D}{S} \frac{\Sigma}{N}$	10.6	NP	NP	SD GV, BRN, V MST, ALL
	670			10.3			BASEL GRAVEL WEATHERED SHALE
45							DISCONTINUED. EL 669.5
	665						
50							
	660						
55							
	655						
60							
	650						
65							
	645						
70							
1' = 5'							

\* Lab. Classif.



## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-384  
SHEET 1 OF 2

PROJECT: WATTS BAR N.P. FEATURE: ERCW TRENCH B  
BORING: PAH-2 STATION: 2+25 = RANGE: SURFACE EL: 713  
DATE DRILLED: 6/1/83 TO PREPARED BY: MHD CHECKED BY: PA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	710		U	19.2	35	13	SI CL, TR GV, BRN, MST, FL
10	705		U	21.3	35	13	SI CL, BRN, MST, ALL
15	700		U	24	35	13	SI CL, BRN, MST, ALL
20	695		$\sum_{0 \leq 10} U$	27.4	31	8	CL SD, BRN, W, ALL
25	690		$\sum_{0 \leq 10}$	27.5	NP	NP	ALT STRATA - SI SD & CL SI, TN-BRN, V MST, ALL
30	685		$\sum_{0 \leq 10}$	26.7	NP	NP	ALT STRATA - SI SD & CL SI, TN-BRN, V MST, ALL
35	680		$\sum_{0 \leq 10} U$	17.3	NP	NP	GV SD, BRN-TN, W, ALL
1' = 5'			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-384  
SHEET 2 OF 2

PROJECT: WATTS BAR N.P.

FEATURE: ERCW TRENCH B

BORING: PAH-2 STATION: 2+25

RANGE: SURFACE EL: 713

DATE DRILLED: 6/1/83 TO

PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
40	675			12.8			WEATHERED SHALE
							DISCONTINUED. EL 674.0
45	670						
50	665						
55	660						
60	655						
65	650						
70	645						
1''=5'			* Lab. Classif.				



## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-385  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-3 STATION: 3+50  
DATE DRILLED: 6/1/83 TO

FEATURE: ERCW TRENCH B  
RANGE: SURFACE EL: 701.3  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	700		$\Sigma \frac{U}{O}$	24.2	31	8	SD SI CL, BRN, MST, ALL
10	695		$\Sigma \frac{U}{O}$	37.0	28	4	SD SI, BRN, V MST, ALL
15	690		$\Sigma \frac{U}{O}$	26.4	31	8	SD SI, TN, V MST, ALL
			SM	29.2	28	4	SI SD, R-TN, V MST, ALL
	685			20.3			WEATHERED SHALE
20							DISCONTINUED. EL 684.8
25	680						
30	675						
35	670						
1''=5'			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-386  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.

FEATURE: ERCW TRENCH B

BORING: PAH-4 STATION: 4+75

RANGE: SURFACE EL: 700.4

DATE DRILLED: 6/2/83 TO

PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	700						
5	695		CU	28.2	26	8	SD SI CL, GY, W, ALL
10	690		Σ S	18.0	NP	NP	SD SI, GY, W, ALL
			CI-M	26.7	23	5	SD SI, GY, W, ALL
				24.9			WEATHERED SHALE
							DISCONTINUED. EL 688.9
15	685						
20	680						
25	675						
30	670						
35							
1''=5'			* Lab. Classif.				



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-387  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.      FEATURE: ERCW TRENCH B  
BORING: PAH-5      STATION: 6+00      RANGE: SURFACE EL: 702.7  
DATE DRILLED: 6/2/83      TO      PREPARED BY: MHD      CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	700		CU	20.6	26	8	SD SI CL, TN-GY, MST, ALL
10	695		CU	30	26	8	SL SD SI, TN-GY, V MST, ALL
			CL	22.9	30	13	LAM RESD CL, MST
				15.3			WEATHERED SHALE
	690						DISCONTINUED. EL 691.2
15							
	685						
20							
	680						
25							
	675						
30							
	670						
35							
1' '=5'			* Lab. Classif.				

**WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT**

SOIL PROFILE  
FIGURE 2.5-388  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: ERCW BORROW AREA 9  
BORING: PAH-1 STATION: 1592.0E RANGE: 190.6S SURFACE EL: 738.8  
DATE DRILLED: 06/02/83 TO PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL - GV
5	735		J O	15.3	28	13	SI CL, TR GV, TN, MST, FL
			L Σ	22.0	43	14	SI CL, R, MST, ALL
10	730						
			L Σ	24.0	41	14	SI CL, R-BRN, MST, ALL
15	725						DISCONTINUED. EL 723.8
20	720						
25	715						
30	710						
35	705						
1' = 5'							

\* Lab. Classif.



WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-389  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: ERCW BORROW AREA 9  
BORING: PAH-2 STATION: 1618.7E RANGE: 323.55 SURFACE EL: 740.4  
DATE DRILLED: 6/2/83 TO PREPARED BY: MHD CHECKED BY: *JA*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740						TOPSOIL
5			$\frac{1}{\Sigma}$	18.8	43	14	SI CL, GY-TN, MOTT, MST, ALL
	735		$\frac{1}{\Sigma}$	24.6	41	14	SI CL, R, MST, ALL
10			$\frac{1}{\Sigma}$	23.2	41	14	SD CL, R, MST, ALL
15	725						DISCONTINUED. EL 725.4
20	720						
25	715						
30	710						
35							

1"=5'

\* Lab. Classif.

# HISTORICAL

WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT
SOIL PROFILE FIGURE 2.5-390 SHEET 1 OF 1

PROJECT: WATTS BAR N.P.      FEATURE: ERCW BORROW AREA 9  
BORING: PAH-3      STATION: 1605.2E      RANGE: 465.2S      SURFACE EL: 742.1  
DATE DRILLED: 6/2/83      TO      PREPARED BY: MHD      CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740						TOPSOIL
5			$\sum$	21.4	43	14	SD SI CL, R, MST, ALL
	735						
10			$\sum$	24.4	41	14	SD SI CL, R, MST, ALL
	730						
15			$\sum$	18.4	41	14	SD CL, R-BRN, MST, ALL
	725						DISCONTINUED. EL 727.1
20							
	720						
25							
	715						
30							
	710						
35							
1' = 5'							

\* Lab. Classif.

## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-391A  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: ERCW BORROW AREA 9  
BORING: PAH-4 STATION: 1606.0E RANGE: 616.6S SURFACE EL: 743.3  
DATE DRILLED: 6/2/83 TO PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL - MIXED W/GRAVEL
5	740		$\frac{1}{\Sigma}$	20.3	43	14	SD SI, R, MST, ALL
10	735		$\frac{1}{\Sigma}$	23.2	41	14	SD SI CL, R, MST, ALL
15	730		$\frac{1}{\Sigma}$	21.0	41	14	SD SI CL, R, MST, ALL
							DISCONTINUED. EL 728.3
20	725						
25	720						
30	715						
35	710						
1' = 5'							
		* Lab. Classif.					



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-392  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: ERCW BORROW AREA 9  
BORING: PAH-5 STATION: 1604.9E RANGE: 767.3S SURFACE EL: 737.8  
DATE DRILLED: 6/2/83 TO PREPARED BY: MHD CHECKED BY: *PA*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	735		CL	18.5	33	17	TOPSOIL SI CL, BRN, MST, ALL
10	730		CL	20.8	33	17	SI CL, BRN, MST, ALL
15	725		ML	22.9	43	14	SD CL SI, R, MST, ALL
20	720						DISCONTINUED. EL 723.8
25	715						
30	710						
35	705						
1"=5'			* Lab. Classif.				

## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-393  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: ERCW BORROW AREA 9  
BORING: PAH-6 STATION: 1576.3E RANGE: 902.2S SURFACE EL: 735.6  
DATE DRILLED: 6/2/83 TO PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	735						TOPSOIL
5			U	15.4	29	14	SI CL, TN-BRN, MST, FL
	730		U	20.4	33	17	(BURIED TOPSOIL) SI TO SI CL, TN-BRN, MST-V MST, ALL
10			Σ	24.0	43	14	SI CL, BRN, MST, ALL
15	720						DISCONTINUED. EL 720.6
20	715						
25	710						
30	705						
35							
1' = 5'			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-394  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: ERCW BORROW AREA 9  
BORING: PAH-7 STATION: 1730.2E RANGE: 160.1S SURFACE EL: 735.7  
DATE DRILLED: 6/3/83 TO PREPARED BY: MHD CHECKED BY: EA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5  10  15	735			16.3	29	14	TOPSOIL
			CL				SI CL, BRN, MST, ALL
	730		CL				SI CL, GY, MST, ALL
	725		CL				SI CL, GY, MST, ALL
			ML	14.6	41	14	SD SI, GY, MST, ALL
	720						DISCONTINUED. EL 720.7
20	715						
25	710						
30	705						
35							
1' = 5'			* Lab. Classif.				



WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

PROJECT: WATTS BAR N.P.      FEATURE: ERCW BORROW AREA 9  
BORING: PAH-8      STATION: 1785.7E      RANGE: 290.0S      SURFACE EL: 737.3  
DATE DRILLED: 6/3/83      TO      PREPARED BY: MHD      CHECKED BY: BA

[illegible]

<p>WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT</p>
<p>SOIL PROFILE FIGURE 2.5-396 SHEET 1 OF 1</p>

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740						
			CL	13.6	28	13	SI CL, BRN, MST, ALL
5	735		CL	23.0	43	14	SI CL, R, MST, ALL
10	730		ΣL	20.9	41	14	SD SI CL, R, MST, ALL
15	725						DISCONTINUED. EL 726.0
20	720						
25	715						
30	710						
35	705						
1' = 5'							
			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-397  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.

FEATURE: ERCW BORROW AREA 9

BORING: PAH-10

STATION: 1787.1E

RANGE: 584.7S

SURFACE EL: 744.2

DATE DRILLED: 6/3/83 TO

PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	740		CU	13.2	28	13	TOPSOIL SI CL, TR GV, BRN, MST, FL
10	735		CU	17.7	29	14	SI CL, BRN, MST, ALL (ORIG SOIL)
15	730		Σ	22.8	43	14	SI CL, R, MST, ALL
20	725						DISCONTINUED. EL 730.2
25	720						
30	715						
35	710						

1"=5'

\* Lab. Classif.



## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-398  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: ERCW BORROW AREA 9  
BORING: PAH-11 STATION: 1750.5E RANGE: 726.7S SURFACE EL: 740.9  
DATE DRILLED: 6/3/83 TO PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5  10  15	740		10	16.8	29	14	TOPSOIL SI CL, BRN, MST, ALL
	735		10	18.1	33	17	SI CL, BRN, MST, ALL
	730		10	19.8	35	17	SI CL, BRN, V MST, ALL
			Σ	22.3	43	14	SD SI, BRN, V MST, ALL
20	725						DISCONTINUED. EL 725.9
25	720						
30	715						
35	710						
1''=5'							
		* Lab. Classif.					

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-399  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: ERCW BORROW AREA 9  
BORING: PAH-12 STATION: 1708.3E RANGE: 866.6S SURFACE EL: 739.1  
DATE DRILLED: 6/3/83 TO PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	735		U C	13.7	28	13	TOPSOIL SI CL, BRN, MST, ALL
10	730		U C	25.1	35	17	SI CL, BRN, V MST, ALL
15	725		U C	22.4	35	17	SI CL, BRN, V MST, ALL
20	720						DISCONTINUED. EL 725.1
25	715						
30	710						
35	705						
1' = 5'			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-400  
SHEET 1 OF 1

PROJECT: WATTS BAR N. P. FEATURE: BORROW AREA 10  
BORING: PAH-1 STATION: 11+23.2E RANGE: 3+68.2N SURFACE EL: 733.8  
DATE DRILLED: 6/6/83 TO PREPARED BY: MHD CHECKED BY: EA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	730		U I Σ	25.2	41	15	SI CL, R-BRN, MST, ALL
10	725		U I Σ	24.0	41	15	SI CL, R-BRN, MST, ALL
15	720		U I Σ	23.9	41	15	SI CL, R-BRN, MST, ALL
20	715						
25	710						
30	705						
35	700						
1''=5'							
		* Lab. Classif.					

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WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-401  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: BORROW AREA 10  
BORING: CM-2 STATION: 9+72.1E RANGE: 4+08.5N SURFACE EL: 737.2  
DATE DRILLED: 6/7/83 TO PREPARED BY: MHD CHECKED BY: JA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	735		U I Σ	26.1	41	15	SI CL, R, MST, ALL
10	730		U I Σ	21.5	41	15	SI CL, R, MST, ALL
15	725						
20	720						
25	715						
30	710						
35	705						
1''=5'							APR 13 1988
			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-402  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: BORROW AREA 10  
BORING: CH-3 STATION: 9+84.6E RANGE: 4+91.1N SURFACE EL: 734.5  
DATE DRILLED: 6/7/83 TO PREPARED BY: MHD CHECKED BY: Bkl

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	730		U1Σ	22.7	41	15	SI CL, BRN, MST, ALL
			U1Σ	27.6	45	19	FT CL, BRN, MST, ALL
10	725						
15	720						
20	715						
25	710						
30	705						
35	700						AST, 1 2 1900
1''=5'			* Lab. Classif.				

# HISTORICAL

WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT
SOIL PROFILE FIGURE 2.5-403 SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: BORROW AREA 11  
BORING: PAH-1 STATION: 6+06.9W RANGE: 1+48.4S SURFACE EL: 736.1  
DATE DRILLED: 6/6/83 TO PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (ND)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	735		$\sum$	28.1	44	16	CL SI, R, MST, ALL
10	730		$\sum$	30.4	45	16	CI SI, R, MST, ALL
15	725		$\sum$	28.7	45	16	CL SI, BRN, V MST, ALL
20	720						
25	715						
30	710						
35	705						
1' = 5'			* Lab. Classif.				



## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-404  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: BORROW AREA 11  
BORING: PAH-2 STATION: 7+60.1W RANGE: 1+89.0S SURFACE EL: 742.0  
DATE DRILLED: 6/6/83 TO PREPARED BY: MHD CHECKED BY: EA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740						GRAVEL
5			Σ	27.1	44	16	SI CL, R, MST, ALL
10	735		Σ	33.7	45	16	CL SI, R-BRN, MST, ALL
15	730		Σ	27.9	45	16	CL SI, R-BRN, MST, ALL
	725						-----
20							
	720						
25							
	715						
30							
	710						
35							
1"=5'			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-405  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P. FEATURE: BORROW AREA 11  
BORING: PAH-3 STATION: 6+93.1W RANGE: 1+15.2S SURFACE EL: 741.9  
DATE DRILLED: 6/6/83 TO PREPARED BY: MHD CHECKED BY: *BA*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740						GRAVEL
5			$\sum$	23.4	44	16	SI CL, R-BRN, MST, ALL
10			$\sum$	26.7	44	16	SI CL, R-BRN, MST, ALL
15			$\sum$	23.2	44	16	SI CL, BRN, MST, ALL
	725						-----
20							
	720						
25							
	715						
30							
	710						
35							
1' = 5'							
		* Lab. Classif.					

## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-406  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.      FEATURE: BORROW AREA 11  
BORING: PAH-4      STATION: 7+16.8W      RANGE: 0+83.0S      SURFACE EL: 741.1  
DATE DRILLED: 6/6/83      TO      PREPARED BY: MHD      CHECKED BY: EA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740						GRAVEL
5	735		ΣL	26.8	44	16	CL SI, R-BRN, MST, ALL
10	730		ΣL	27.8	44	16	CL SI, R-BRN, MST, ALL
15	725		ΣL	27.0	44	16	CL SI, R-BRN, MST, ALL
20	720						
25	715						
30	710						
35							
1''=5'			* Lab. Classif.				



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-407  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.

FEATURE: BORROW AREA 11

BORING: PAH-5 STATION: 8+39.7W RANGE: 1+40.2S SURFACE EL: 738.7

DATE DRILLED: 6/6/83 TO

PREPARED BY: MHD CHECKED BY: *GA*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							GRAVEL
5	735		Σ	22.6	45	16	SI CL, R-BRN, MST, ALL
10	730		Σ	26.8	49	15	SI CL, R-BRN, MST, ALL
15	725		Σ	22.8	45	16	SD SI CL, BRN, MST, ALL
20	720						
25	715						
30	710						
35	705						
1''=5'			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-408  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-1 STATION:  
DATE DRILLED: 6/3/83 TO

FEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 709.6  
PREPARED BY: MHD CHECKED BY: EA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	705		LO	25.7	40	17	SI CL, BRN, MST, ALL
10	700		LO	27.1	40	17	SI CL, BRN, MST, ALL
15	695		LO	26.6	40	17	SI CL, BRN, V MST, ALL
							DISCONTINUED.
20	690						
25	685						
30	680						
35	675						
1' = 5'		* Lab. Classif.					

## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-409  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-2 STATION:  
DATE DRILLED: 6/3/83 TO

FEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 708.3  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	705		$\Sigma L$	24.7	40	13	SI CL, R-BRN, MST, ALL
10	700		$\Sigma L$	27.4	40	13	SI CL, R-BRN, MST, ALL
15	695		$\Sigma L$	25.6	40	13	SI CL, R-BRN, V MST, ALL
20	690						DISCONTINUED.
25	685						
30	680						
35	675						
1' = 5'			* Lab. Classif.				



## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-410  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAM-3 STATION:  
DATE DRILLED: 6/6/83 TO

FEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 711.5  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	710		U	25.1	40	17	FT CL, R, MST, ALL
10	705		Σ	23.7	40	13	FT CL, R, MST, ALL
15	700		U	25.7	40	17	SI CL, R-BRN, MST, ALL
20	695						DISCONTINUED.
25	690						
30	685						
35	680						
1' = 5'			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-411  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-4 STATION:  
DATE DRILLED: 6/6/83 TO

FEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 707.7  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	705		$\frac{1}{\Sigma}$	23.2	40	13	SI CL, R-BRN, MST, ALL
10	700		$\frac{1}{\Sigma}$	24.1	40	13	SI CL, R-BRN, MST, ALL
15	695		$\frac{1}{\Sigma}$	25.9	40	13	SI CL, BRN, V MST, ALL
							DISCONTINUED.
20	690						
25	685						
30	680						
35	675						
1''=5'							
		* Lab. Classif.					

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-412  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-5 STATION:  
DATE DRILLED: 6/6/83 TO

FEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 709.7  
PREPARED BY: MHD CHECKED BY: EA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	705		Σ	26.7	40	13	FT CL, R, MST, ALL
10	700		Σ	23.8	40	13	SI CL, R-BRN, MST, ALL
15	695		Σ	25.2	40	13	SI CL, R-BRN, MST, ALL
							DISCONTINUED.
20	690						
25	685						
30	680						
35	675						
1' = 5'			* Lab. Classif.				



# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-413  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-6 STATION:  
DATE DRILLED: 6/6/83 TO

FEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 705.7  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	705						TOPSOIL
5			CL	26.2	40	17	FT CL, BRN, MST, ALL
	700		CL	26.1	40	17	FT CL, BRN, MST, ALL
10			CL	23.7	40	17	SI CL, BRN, MST, ALL
	695						
15							DISCONTINUED.
	690						
20							
	685						
25							
	680						
30							
	675						
35							
1' = 5'			* Lab. Classif.				

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-414  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-7 STATION:  
DATE DRILLED: 6/6/83 TO

FEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 706.0  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	705		U	25.7	40	17	FT CL, R-BRN, MST, ALL
10	700		Σ	25.8	40	13	SI CL, R-BRN, MST, ALL
15	695		Σ	23.6	40	13	SI CL, BRN, MST, ALL
20	690						DISCONTINUED.
25	685						
30	680						
35	675						
1' = 5'			* Lab. Classif.				

## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-415  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-7 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 744.0 est  
PREPARED BY: MHD CHECKED BY: EA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	740		U	22.5	42	18	FT CL, R, MST, ALL
			U	24.9	42	18	SI CL, R, MST, ALL
10	735		U	20.1	35	14	CL SI, TN, MST, RESD
15	730		U	22.0	35	14	CL SI, TN, MST, RESD
20	725						DISCONTINUED.
25	720						
30	715						
35	710						
1' = 5'			* Lab. Classif.				



**WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT**

PROJECT: WAITS BAR N.P.  
BORING: PAH-8 STATION:  
DATE DRILLED: 6/6/83 TO

FEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 706.3  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	705						TOPSOIL
5			J Σ	23.7	40	13	FT CL, R, MST, ALL
	700		J Σ	23.3	40	13	SI CL, BRN, MST, ALL
10							
	695		J O	23.5	40	17	SI CL, BRN, MST, ALL
15							
	690						DISCONTINUED.
20							
	685						
25							
	680						
30							
	675						
35							
1''=5'							

\* Lab. Classif.

# HISTORICAL

## WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-417  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: FAH-9 STATION:  
DATE DRILLED: 6/6/83 TO

FEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 703.7  
PREPARED BY: MHD CHECKED BY: PA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	700		U	22.3	40	17	SI CL, R-BRN, MST, ALL
10	695		Σ	25.6	40	13	MD CL, R-BRN, MST, ALL
15	690		Σ	24.6	40	13	SI CL, BRN, V MST, ALL
20	685						DISCONTINUED.
25	680						
30	675						
35	670						
1''=5'			* Lab. Classif.				

## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORTSOIL PROFILE  
FIGURE 2.5-418  
SHEET 1 OF 1PROJECT: WATTS BAR N.P.  
BORING: PAH-10 STATION:  
DATE DRILLED: 6/6/83 TOFEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 706.0  
PREPARED BY: MHD CHECKED BY: EA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	705		$\sum$	25.7	40	13	FT CL, R-BRN, MST, ALL
10	700		$\sum$	25.1	30	8	SI CL, R-BRN, MST, ALL
15	695		$\sum$	20.2	29	6	SI CL, BRN, MST, ALL
20	690						DISCONTINUED.
25	685						
30	680						
35	675						
1' = 5'			* Lab. Classif.				



## HISTORICAL

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-418  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-11 STATION:  
DATE DRILLED: 6/6/83 TO

FEATURE: BORROW AREA 12  
RANGE: SURFACE EL: 710.4  
PREPARED BY: MHD CHECKED BY: *BA*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	710						
5	705		$\sum$	24.9	40	13	SI CL, R-BRN, MST, ALL
10	700		$\sum$	21.6	29	6	SD SI CL, R-BRN, MST, ALL
15	695		$\sum$	19.5	29	6	SI SD, R-BRN, MST, ALL
20	690						DISCONTINUED.
25	685						
30	680						
35							
1''=5'			* Lab. Classif.				

"HISTORICAL INFORMATION"

<p>WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT</p>
<p>SOIL PROFILE FIGURE 2.5-420 SHEET 1 OF 1</p>

PROJECT: WATTS BAR N.P.  
BORING: PAH-1 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 723.1  
PREPARED BY: MHD CHECKED BY: JEL

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	720		$\frac{1}{0} \frac{1}{0}$	21.3	35	11	TOPSOIL SI CL, BRN, MST, RESD
10	715		$\frac{1}{0}$	23.0	43	20	SI CL, BRN, MST, RESD
15	710		$\frac{1}{0}$	22.3	43	20	SI CL, BRN, MST, RESD
20	705		$\frac{1}{0}$	20.4	43	20	SI CL, BRN, MST, RESD
25	700						DISCONTINUED.
30	695						
35	690						
1' = 5'			* Lab. Classif.				

"HISTORICAL INFORMATION"

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-421  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-2 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 728.6  
PREPARED BY: MHD CHECKED BY: *CEG*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL, SPOIL GRAVEL
5	725		1 0	27.6	36	13	SI CL, PURP, MST, RESD
10	720		1 0	23.9	36	13	SI CL, PURP, MST, RESD
15	715		1 0	20.2	36	13	SI CL, PURP, MST, RESD
20	710						DISCONTINUED.
25	705						
30	700						
35	695						
1' = 5'							

\* Lab. Classif.



"HISTORICAL INFORMATION"

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-422  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-3 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 723.4  
PREPARED BY: MHD CHECKED BY: *CEC*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	720		$\frac{1}{0} \frac{1}{\Sigma}$	14.9	35	11	SI CL, BRN, MST, RESD
10	715		$\frac{1}{0}$	31.9	43	20	SI CL, BRN, SAT, RESD
15	710						DISCONTINUED (WET).
20	705						
25	700						
30	695						
35	690						
1"=5'			* Lab. Classif.				

"HISTORICAL INFORMATION"

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-423  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-4 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 742.1  
PREPARED BY: MHD CHECKED BY: *JBK*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740		$\frac{1}{0} \frac{1}{\Sigma}$	14.9	35	11	TOPSOIL CL SI, BRN, MST, RESD
5							
	735		$\frac{1}{0} \frac{1}{\Sigma}$	22.5	35	11	CL SI, BRN, MST, RESD
10							
	730		$\frac{1}{0} \frac{1}{\Sigma}$	25.7	45	17	CL SI, BRN, MST, RESD
15							
	725		$\frac{1}{0} \frac{1}{\Sigma}$	28.3	45	17	CL SI, BRN, MST, RESD
20							
	720						DISCONTINUED.
25							
	715						
30							
	710						
35							
1' = 5'							
		* Lab. Classif.					

"HISTORICAL INFORMATION"

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-424  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-5 STATION:  
DATE DRILLED: TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 723.5  
PREPARED BY: MHD CHECKED BY: *CLG*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	720		$\frac{1}{\Sigma}$	22.2	42	14	CL SI, BRN, MST, RESD
10	715		$\frac{1}{\Sigma}$	23.1	42	14	CL SI, BRN, MST, RESD
15	710		$\frac{1}{\Sigma}$	20.9	42	14	CL SI, BRN, MST, RESD
20	705		$\frac{1}{\Sigma}$	22.1	42	14	CL SI, BRN, MST, RESD
							DISCONTINUED.
25	700						
30	695						
35	690						
1' = 5'			* Lab. Classif.				



"HISTORICAL INFORMATION"

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-425  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-6 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 730.5  
PREPARED BY: MHD CHECKED BY: *CEG*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	730						TOPSOIL
5	725		$\frac{1}{\Sigma}$	22.3	42	14	CL SI, BRN, MST, RESD
10	720		$\frac{1}{\Sigma}$	15.3	42	14	CL SI, BRN, MST, RESD
15	715		$\frac{1}{0}$	17.2	36	13	CL SI, PUR-BRN, MST, RESD
			$\frac{1}{0}$	13.7	36	13	CL SI, PUR-BRN, MST, RESD
20	710						DISCONTINUED.
25	705						
30	700						
35							
1''=5'							
		* Lab. Classif.					

"HISTORICAL INFORMATION"

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

SOIL PROFILE  
FIGURE 2.5-426  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-7 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 728.8  
PREPARED BY: MHD CHECKED BY: CCE

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	725		$\begin{matrix} \downarrow \\ 0 \end{matrix} \begin{matrix} \downarrow \\ 1 \end{matrix} \begin{matrix} \downarrow \\ \Sigma \end{matrix}$	18.1	35	11	CL SI, BRN, MST, RESD
10	720		$\begin{matrix} \downarrow \\ \Sigma \end{matrix}$	19.9	42	14	CL SI, LT BRN, MST, RESD
15	715		$\begin{matrix} \downarrow \\ 0 \end{matrix}$	21.5	36	13	CL SI, PUR-BRN, MST, RESD
20	710		$\begin{matrix} \downarrow \\ 0 \end{matrix}$	18.0	36	13	CL SI, PUR-BRN, MST, RESD
							DISCONTINUED.
25	705						
30	700						
35	695						
1''=5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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SOIL PROFILE  
FIGURE 2.5-427  
SHEET 1 OF 1

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 740.1  
PREPARED BY: MHD CHECKED BY: *CEG*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740						TOPSOIL
5	735		┐ └	22.6	36	13	CL SI, BRN, MST, RESD
10	730		┐ └	24.8	36	13	CL SI, BRN, MST, RESD
15	725		┐ └	24.2	36	13	CL SI, BRN, MST, RESD
20	720		┐ └ ┐ └	21.5	45	17	CL SI, BRN, V MST, RESD
25	715						DISCONTINUED.
30	710						
35							

1"=5'

\* Lab. Classif.



"HISTORICAL INFORMATION"

WATTS BAR NUCLEAR PLANT  
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SOIL PROFILE  
FIGURE 2.5-428  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-9 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 714.2  
PREPARED BY: MHD CHECKED BY: *CBG*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	710		┐ 0	18.9	43	20	CL SI, LT BRN, MST, RESD
10	705		┐ 0	20.9	43	20	CL SI, LT BRN, MST, RESD
15	700		┐┐ 0 1	17.7	37	12	CL SI, LT BRN, MST, RESD
20	695		┐┐ 0 1	18.0	37	12	CL SI, LT BRN, MST, RESD
25	690						DISCONTINUED.
30	685						
35	680						
1''=5'			* Lab. Classif.				

"HISTORICAL INFORMATION"

WATTS BAR NUCLEAR PLANT  
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SOIL PROFILE  
FIGURE 2.5-429  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-10 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 713.0  
PREPARED BY: MHD CHECKED BY: *BB*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							SPOIL FILL
5	710		$\frac{1}{0} \frac{1}{\Sigma}$	21.0	37	12	CL SI, LT BRN, MST, RESD
10	705		$\frac{1}{0} \frac{1}{\Sigma}$	20.8	37	12	CL SI, LT BRN, MST, RESD
15	700		$\frac{1}{0} \frac{1}{\Sigma}$	16.3	37	12	CL SI, LT BRN, MST, RESD
20	695		$\frac{1}{0} \frac{1}{\Sigma}$	18.5	37	12	CL SI, LT BRN, MST, RESD
25	690						DISCONTINUED.
30	685						
35	680						
1' = 5'			* Lab. Classif.				

"HISTORICAL INFORMATION"

WATTS BAR NUCLEAR PLANT  
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SOIL PROFILE  
FIGURE 2.5-430  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-11 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 730.5  
PREPARED BY: MHD CHECKED BY: *CB*

DEPTH ft.	EL	SPT (N)	# LOG	W	LL	PI	FIELD DESCRIPTION
	730						TOPSOIL
5	725		1 0 1 Σ	21.0	35	11	CL SI, BRN, MST, RESD
10	720		1 0 1 Σ	18.4	35	11	CL SI, TR GV, BRN, MST, RESD
15	715		1 0 1 Σ	17.4	35	11	CL SI, BRN, MST, RESD
20	710						DISCONTINUED
25	705						
30	700						
35							
1"=5'							
		* Lab. Classif.					



"HISTORICAL INFORMATION"

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SOIL PROFILE  
FIGURE 2.5-431  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-12 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 745.8  
PREPARED BY: MHD CHECKED BY: *CDG*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	745						TOPSOIL
5			$\frac{1}{0} \frac{1}{\Sigma}$	18.2	35	11	CL SI, BRN, MST, RESD
	740		$\frac{I}{\Sigma}$	25.6	52	17	CL SI, BRN, MST, RESD
10			$\frac{I}{\Sigma}$	27.4	52	17	CL SI, TR BENT, BRN, MST, RESD
15			$\frac{I}{\Sigma}$	29.7	52	17	CL SI, BRN, MST, RESD
20	725						
25	720						
30	715						
35							
1' = 5'			* Lab. Classif.				

"HISTORICAL INFORMATION"

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SOIL PROFILE  
FIGURE 2.5-432  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-13 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 701.0  
PREPARED BY: MHD CHECKED BY: *CRG*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	700						TOPSOIL, SPOIL
5			$\frac{1}{\Sigma}$	23.1	44	16	CL SI, BRN, MST, RESD
	695		$\frac{1}{\Sigma}$	19.1	44	16	CL SI, BRN, MST, RESD
10			ML	16.4	44	16	SI CL IR BENT, BRN, MST, RESD
	690						DISCONTINUED.
15							
	685						
20							
	680						
25							
	675						
30							
	670						
35							
1''=5'			* Lab. Classif.				

### "HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-14 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 698.9  
PREPARED BY: MHD CHECKED BY: *MEG*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	695		CL	16.6	35	11	TOPSOIL CL SI, BRN, MST, RESD
10	690		CL	21.3	40	18	SI CL, TR BENT, BRN, MST, RESD
15	685		CL	22.1	40	18	SI CL, TR BENT, BRN, MST, RESD
20	680		CL	20.4	40	18	SI CL, TR BENT, BRN, MST, RESD
25	675						DISCONTINUED.
30	670						
35	665						



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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-434  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-15 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 733.1  
PREPARED BY: MHD CHECKED BY: *956*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	730		Σ	26.4	44	16	CUT SURFACE, TOPSOIL SI CL, TR BENT, BRN, MST, RESD
10	725		U	28.6	40	18	SI CL, TR BENT, BRN, MST, RESD
15	720		U Σ	18.6	35	11	CL SI, BRN, MST, RESD
20	715		U Σ	20.0	35	11	CL SI, BRN, MST, RESD
25	710						DISCONTINUED.
30	705						
35	700						
1"=5'			* Lab. Classif.				

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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-435  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-16 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 745.3  
PREPARED BY: MHD CHECKED BY: *DEG*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	745						TOPSOIL
5			$\frac{1}{0} \frac{1}{\Sigma}$	17.3	35	11	CL SI, BRN, MST, RESD
	740						
10			$\frac{1}{0} \frac{1}{\Sigma}$	24.1	35	11	CL SI, BRN, MST, RESD -
	735						
15			$\frac{1}{\Sigma}$	27.1	44	16	CL SI, BRN, MST, RESD
	730						
20			$\frac{1}{\Sigma}$	28.6	44	16	CL SI, BRN, MST, RESD
	725						DISCONTINUED.
25							
	720						
30							
	715						
35							
1' = 5'			* Lab. Classif.				

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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-436  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-17 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 693.0  
PREPARED BY: MHD CHECKED BY: *CEC*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	690		$\frac{1}{\Sigma}$	23.5	44	16	SI CL, BRN, MST, RESD
10	685		$\frac{1}{\Sigma}$	25.7	44	16	SI CL, BRN-GY, MST, RESD
			$\frac{1}{0}$	19.6	40	18	SI CL, BRN-GY, MST, RESD
15	680						DISCONTINUED (GV).
20	675						
25	670						
30	665						
35	660						
1' = 5'							
		* Lab. Classif.					



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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-437  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-18 STATION:  
DATE DRILLED: 8/26/83 TO

FEATURE: BORROW AREA 13  
RANGE: SURFACE EL: 697.9  
PREPARED BY: MHD CHECKED BY: *CEG*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	695		Σ	19.7	44	16	CL SI, BRN, MST, RESD
10	690		Σ	26.7	44	16	CL SI, TN, MST, RESD
15	685		Σ	22.3	44	16	CL SI, TN, MST, RESD
20	680		Σ	20.3	44	16	CL SI, TN, MST, RESD
25	675						DISCONTINUED.
30	670						
35	665						
1' = 5'			* Lab. Classif.				

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SOIL PROFILE  
FIGURE 2.5-438  
SHEET 1 OF 1

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: FAH-1 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 714.2  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	710		CU	18.2	29	12	SI CL, TN-BRN, MST, ALL
10	705		Σ US	20.5	26	7	CL SD, ±20% FN RD GV, TN, V MST, ALL SD GV, ±40% FN RD GV, ALL
15	700		CU	19.5	29	12	FT SI, GRN-GY, MST, RESD
20	695						WTH GY SHL DISCONTINUED.
25	690						
30	685						
35	680						
1' = 5'			* Lab. Classif.				

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SOIL PROFILE  
FIGURE 2.5-439  
SHEET 1 OF 1

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-2 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 722.1  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	720		U O I Σ	27.5	38	13	SI CL, R, MST, ALL
10	715		U O I Σ	29.6	38	13	SI CL, R-BRN, MST, ALL
15	710		O S	27.2	34	14	SI CL, R-TN, V MST, ALL
			O S	27.9	34	14	CL SI SD, BRN, V MST, ALL
	705						W ST SD
20							DISCONTINUED.
	700						
25							
	695						
30							
	690						
35							
1''=5'			* Lab. Classif.				



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SOIL PROFILE  
FIGURE 2.5-440  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-S STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 717.2  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	715		U O I Σ	20.6	38	13	SI CL, TN, MST, ALL
	710		SO S	24.3	34	14	SI CL, TN, MST, ALL
10			SO S	26.1	34	14	SD SI CL, TN, V MST, ALL
	705						W SD SI CL
15							DISCONTINUED.
	700						
20							
	695						
25							
	690						
30							
	685						
35							
1' = 5'			* Lab. Classif.				

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-4 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 718  
PREPARED BY: MHD CHECKED BY: *BA*

[illegible]

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SOIL PROFILE  
FIGURE 2.5-442  
SHEET 1 OF 1

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: FAH-5 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 723.1  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	720		1 0 1 Σ	19.6	42	16	CL SI, TN, MST, ALL
10	715		1 0	24.8	42	18	CL SI, TN, MST, ALL
15	710						W CL SI
							DISCONTINUED.
20	705						
25	700						
30	695						
35	690						
1' = 5'			* Lab. Classif.				



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SOIL PROFILE  
FIGURE 2.5-443  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-6 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 735.6  
PREPARED BY: MHD CHECKED BY: B-1

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	735						TOPSOIL
5			U 0	28.4	42	16	FT CL, R, MST, ALL
	730		U 0	23.3	35	14	SI CL, TN, MST, ALL
10			U 0	22.7	35	14	SI CL, TN, MST, ALL
	725						
15			U 0	22.9	31	11	CL SI, TN, V MST, ALL
	720						
20							DISCONTINUED.
	715						
25							
	710						
30							
	705						
35							
1' = 5'			* Lab. Classif.				

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SOIL PROFILE  
FIGURE 2.5-444  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-8 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 749.1  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	745		┐ └┐ 0	20.8	33	13	SI CL, BRN, MST, ALL
10	740		┐┐ └┐└┐ 0 1 Σ	23.7	42	16	SI CL, R, MST, ALL
15	735		┐┐ └┐└┐ 0 1 Σ	25.6	42	16	FT CL, R, MST, RESD
20	730		┐ └┐ 0	20.8	39	16	FT SI, DK R, MST, RESD (SL AUGG)
25	725						DISCONTINUED.
30	720						
35	715						
1''=5'			* Lab. Classif.				

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SOIL PROFILE  
FIGURE 2.5-445  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-10 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 713.4  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	710		U O	17.4	29	12	CL SI, TN, MST, RESD
10	705		U O	14.3	29	12	CL SI, GRN-TN, MST, RESD
15	700						DISCONTINUED.
20	695						
25	690						
30	685						
35	680						
1''=5'							

\* Lab. Classif.



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SOIL PROFILE  
FIGURE 2.5-446  
SHEET 1 OF 1

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-11 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 723.4  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	720		U1Σ	25.3	38	13	SI CL, R-BRN, MST, ALL
10	715		U1Σ	24.3	38	13	CL SI SD, BRN, MST, ALL
15	710						SI CL SD, W
20	705						DISCONTINUED.
25	700						
30	695						
35	690						
1' = 5'			* Lab. Classif.				

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SOIL PROFILE  
FIGURE 2.5-447  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-12 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 724.3  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	720		$\frac{1}{0} \frac{1}{\Sigma}$	26.2	38	13	SI CL, R-BRN, MST, ALL
10	715		$\frac{1}{0} \frac{1}{\Sigma}$	26.4	38	13	CL SI SD, R-BRN, V MST, ALL
15	710						W CL SI SD
							DISCONTINUED.
20	705						
25	700						
30	695						
35	690						
1''=5'			* Lab. Classif.				

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SOIL PROFILE  
FIGURE 2.5-448  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-13 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 718.7  
PREPARED BY: MHD CHECKED BY: *Bit*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	715		J O	19.3	34	14	SI CL, BRN, V MST, ALL
10	710						ST CL, W DISCONTINUED.
15	705						
20	700						
25	695						
30	690						
35	685						
1' = 5'			* Lab. Classif.				



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SOIL PROFILE  
FIGURE 2.5-449  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-14 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 730.0  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	730						SPOIL FILL & BURIED TOPSOIL
5	725						
			1 0	20.3	39	18	SI CL, TN-BRN, MST, ALL
10	720						
			1 0	26.5	39	18	FT CL, R-BRN, MST, ALL
15	715						
			1 0 1 Σ	25.9	42	16	SI CL, R-BRN, MST, ALL
20	710						DISCONTINUED.
25	705						
30	700						
35	695						
1''=5'			* Lab. Classif.				

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SOIL PROFILE  
FIGURE 2.5-450  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-15 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 739.7  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	735		$\frac{1}{0} \frac{1}{0}$	25.0	42	16	FT CL, R, MST, RESD
10	730		$\frac{1}{0}$	23.6	39	18	FT CL, R, MST, RESD
15	725		$\frac{1}{0}$	23.0	42	18	FT SI, TN, MST, RESD
20	720		$\frac{1}{0}$	22.8	39	18	FT SI, TN, MST, RESD
25	715						DISCONTINUED.
30	710						
35	705						
1' = 5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT
SOIL PROFILE FIGURE 2.5-451 SHEET 1 OF 1

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-16 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 749.8  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	745		UII UΣ	30.5	64	31	FT SI, DK R, MST, RESD
10	740		OL	27.1	39	16	FT SI, DK R, MST, RESD
15	735		OL	27.6	39	16	FT SI, DK R, MST, RESD
20	730		OL	25.0	39	16	FT SI, DK R, MST, RESD
25	725						DISCONTINUED.
30	720						
35	715						
1''=5'			* Lab. Classif.				



WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-452  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-17 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 713.7  
PREPARED BY: MHD CHECKED BY: ghl

DEPTH ft.	EL	SPT (CN)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL - V MST
5	710		$\frac{1}{\Sigma}$	17.1	NP	NP	SD SI, LT TN, V MST, ALL
							DISCONTINUED.
10	705						
15	700						
20	695						
25	690						
30	685						
35	680						
1''=5'							
			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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ANALYSIS REPORT

"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-453  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-18 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 722.9  
PREPARED BY: MHD CHECKED BY: *PA*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	720		$\frac{1}{0} \frac{1}{\Sigma}$	25.7	38	13	SD SI CL, R-BRN, MST, ALL
10	715		$\frac{1}{0} \frac{1}{\Sigma}$	26.8	38	13	CL SD SI, R-BRN, V MST, ALL
15	710						
20	705						DISCONTINUED.
25	700						
30	695						
35	690						
1' = 5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-454  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-19 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 721.8  
PREPARED BY: MHD CHECKED BY: *BA*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	720						
5			LO	21.8	34	14	SI CL, R-TN, MST, ALL
	715						
10			LO	25.6	34	14	SI CL, R-TN, V MST, ALL
	710						
15							W CL SD
	705						DISCONTINUED.
20							
	700						
25							
	695						
30							
	690						
35							
1''=5'			* Lab. Classif.				



WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-455  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-20 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 722.5  
PREPARED BY: MHD CHECKED BY: *gh*

DEPTH ft.	EL	SPT (CN)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	720		U	18.6	34	14	CL SI, BRN, MST, ALL
10	715		U	23.2	34	14	SI CL, BRN, V MST, ALL
15	710						DISCONTINUED.
20	705						
25	700						
30	695						
35	690						
1''=5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-456  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-21 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 733.2  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	730						TOPSOIL
5			1 0	23.3	39	18	SI CL, R-BRN, MST, ALL
	725						
10			1 0	28.5	33	13	CL SI, DK R, MST, RESD
	720						
15			1 1 0 1	26.2	42	16	SI CL, TN-BRN, MST, RESD
	715						
20							DISCONTINUED.
	710						
25							
	705						
30							
	700						
35							
1''=5'							
		* Lab. Classif.					

WATTS BAR NUCLEAR PLANT  
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ANALYSIS REPORT

"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-457  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-22 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 747.8  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	745		$\frac{I}{O} \frac{I}{Z}$	32.6	64	31	FT SI, DK R, MST, RESD
10	740		$\frac{I}{O}$	31.2	39	16	FT SI, DK R, MST, RESD
15	735		$\frac{I}{O}$	26.9	39	16	FT SI, DK R, MST, RESD
20	730		$\frac{I}{O}$	24.3	39	16	FT SI, DK R, MST, RESD
25	725						DISCONTINUED.
30	720						
35	715						
1''=5'			*Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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ANALYSIS REPORT

"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-458  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-23 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 759.9  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	755		$\frac{1}{0} \frac{1}{\Sigma}$	22.8	42	16	SI CL, R, MST, ALL
10	750		$\frac{1}{0} \frac{1}{\Sigma}$	27.5	42	16	FT CL, R, MST, ALL
15	745		$\frac{1}{0} \frac{1}{\Sigma}$	29.4	42	16	FT CL, R, MST, ALL
20	740		$\frac{1}{0}$	23.2	39	16	FT SI, DK R, MST, RESD
25	735						DISCONTINUED.
30	730						
35	725						
1''=5'			* Lab. Classif.				



WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-459  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-24 STATION:  
DATE DRILLED: 6/7/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 757.3  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (CN)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	755		LO	24.3	42	18	FT SI, R-BRN, MST, ALL
10	750		LO	28.4	42	18	FT SI, R-BRN, MST, ALL
15	745		LO	29.2	35	14	SI CL, R, V MST, ALL
20	740		LO	28.7	39	18	CL SI, GY-TN, MST, RESD
25	735						DISCONTINUED.
30	730						
35	725						
1''=5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-460  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-25 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 714.2  
PREPARED BY: MHD CHECKED BY: *EL*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	710		$\frac{1}{\Sigma}$	26.2	18	1	SD SI, GY, W, ALL
							DISCONTINUED.
10	705						
15	700						
20	695						
25	690						
30	685						
35	680						
1''=5'		* Lab. Classif.					

WATTS BAR NUCLEAR PLANT  
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SOIL PROFILE  
FIGURE 2.5-461  
SHEET 1 OF 1

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-26 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 716.0  
PREPARED BY: MHD CHECKED BY: *BA*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	715						TOPSOIL
5			10	18.8	20	12	SI SD CL, BRN, V MST, ALL
	710						<del>W GY-IN SI SD</del>
10							DISCONTINUED.
	705						
15							
	700						
20							
	695						
25							
	690						
30							
	685						
35							
1' = 5'							
			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-462  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-27 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 720.7  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (CN)	* LOG	W	LL	PI	FIELD DESCRIPTION
	720						TOPSOIL
5			U	19.9	29	12	SI CL, BRN, V MST, ALL
	715		U				
10			U	23.2	38	13	SI CL, BRN, V MST, ALL-
	710						
							V SD CL
15							DISCONTINUED.
	705						
20							
	700						
25							
	695						
30							
	690						
35							
1' = 5'			* Lab. Classif.				



WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-463  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-28 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 727.0  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	725						TOPSOIL
5			1 0	20.5	39	18	SI CL, TN-BRN, MST, ALL
	720						
10			1 0	20.9	35	14	SI CL, TN-BRN, MST, ALL
	715						
15			1 0	25.0	35	14	CL SI, TN, V MST, ALL
							W CL ST
	710						DISCONTINUED.
20							
	705						
25							
	700						
30							
	695						
35							
1' = 5'							
		* Lab. Classif.					

WATTS BAR NUCLEAR PLANT  
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ANALYSIS REPORT

"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-464  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-29 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 733.1  
PREPARED BY: MHD CHECKED BY: BA

SHEET 1 OF 1

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	730		CL	21.4	42	18	SI CL, TN, MST, ALL
			CL	28.3	39	18	FT CL, TN, MST, RESD
10	725		CL	30.0	42	18	FT SI, TN, MST, RESD
15	720		CL	25.9	42	18	FT SI, TN, MST, RESD
20	715						DISCONTINUED.
25	710						
30	705						
35	700						
1''=5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-465  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-30 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 740.5  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	740						TOPSOIL
5	735		1 0	20.9	39	18	SI CL, TN, MST, ALL
10	730		1 0	19.1	39	18	CL SI, TN, MST, RESD
15	725		1 0	22.6	35	14	SI CL, TN, MST, RESD
20	720		1 0	21.5	42	18	SI CL, TN, MST, RESD
25	715						DISCONTINUED.
30	710						
35							
1' = 5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-466  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-31 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 743.0 est.  
PREPARED BY: MHD CHECKED BY: *BP*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	740		U I Σ	22.2	42	16	SI CL, R, MST, ALL
10	735		U I Σ	21.7	42	16	SI CL, R, MST, ALL
15	730		U	21.2	39	18	SI CL, BRN, MST, RESD
20	725		U	20.1	43	20	SI CL, BRN, MST, RESD
25	720						DISCONTINUED.
30	715						
35	710						
1''=5'			* Lab. Classif.				



WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-467  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-32 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 713.7  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	710		1 0	20.6	29	12	CL SI, TN, V MST, ALL
10	705						W CL ST
							DISCONTINUED.
15	700						
20	695						
25	690						
30	685						
35	680						
1' = 5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-468  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-33 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 721.1  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	720						TOPSOIL
5			$\begin{array}{c} \text{J} \text{ I} \text{ J} \\ \text{O} \text{ I} \text{ } \end{array}$	23.5	38	13	SI CL, R-BRN, MST, ALL
	715		$\begin{array}{c} \text{J} \text{ I} \text{ J} \\ \text{O} \text{ I} \text{ } \end{array}$	26.1	38	13	SD SI CL, R, MST, ALL
10			$\begin{array}{c} \text{J} \\ \text{O} \end{array}$	27.6	34	14	SD CL SI, TN, V MST, ALL
15							W SD ST
	705						DISCONTINUED.
20							
	700						
25							
	695						
30							
	690						
35							
1' = 5'							
		* Lab. Classif.					

WATTS BAR NUCLEAR PLANT  
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ANALYSIS REPORT

"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-469  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-34 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 722.7  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (CN)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	720		$\frac{1}{0} \frac{1}{\Sigma}$	23.1	38	13	SI CL, R-BRN, MST, ALL
10	715		$\frac{1}{0} \frac{1}{\Sigma}$	26.0	38	13	SI CL, R-BRN, MST, ALL
15	710		$\frac{1}{0}$	27.3	34	14	SI CL, R-TN, V MST, ALL
							W ST CL
20	705						DISCONTINUED.
25	700						
30	695						
35	690						
1' = 5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-470  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-35 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 724.6  
PREPARED BY: MHD CHECKED BY: EA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	720		$\frac{1}{0} \frac{1}{\Sigma}$	19.9	38	13	SI CL, BRN, MST, ALL
10	715		$\frac{1}{0} \frac{1}{\Sigma}$	26.1	38	13	SI CL, BRN-TN, MST, ALL
			$\frac{1}{0}$	26.3	34	14	SI CL, TN, V MST, ALL
15	710						W CL SD
							DISCONTINUED.
20	705						
25	700						
30	695						
35	690						
1' = 5'			* Lab. Classif.				



WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-471  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-36 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 728.2  
PREPARED BY: MHD CHECKED BY: CA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	725		CL	20.2	35	14	SI CL, TN-BRN, MST, ALL
10	720		CL	22.0	42	18	CL SI, R-BRN, MST, RESD
15	715		CL	21.5	42	18	CL SI, R-BRN, MST, RESD
20	710		CL	21.7	35	14	CL SD SI, TN, MST, RESD
25	705						DISCONTINUED.
30	700						
35	695						
1''=5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-472  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-37 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 733.3  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	730		U	21.0	35	14	SI CL, TN, MST, ALL
10	725		U	23.0	42	18	SI CL, TN, MST, ALL
15	720		U	23.7	39	18	CL SI, TN, MST, RESD
20	715						DISCONTINUED.
25	710						
30	705						
35	700						
1"=5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-473  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-38 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 738.4  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							GV DBR & TOPSOIL
5	735		10 1 1	22.1	42	16	SI CL, TN, MST, ALL
10	730		10	21.9	42	18	CL SI, TN, MST, RESD
15	725		10	23.0	42	18	CL SI, TN, MST, RESD
20	720						DISCONTINUED.
25	715						
30	710						
35	705						
1' = 5'			* Lab. Classif.				

<p>WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT</p>
<p>SOIL PROFILE FIGURE 2.5-474 SHEET 1 OF 1</p>

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-39 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 716.5  
PREPARED BY: MHD CHECKED BY: *BA*

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	715						TOPSOIL
5			$\frac{1}{0} \frac{1}{\Sigma}$	20.7	38	13	SD SI CL, R-BRN, V MST, ALL
	710						
10			$\frac{1}{0} \frac{1}{\Sigma}$	19.2	38	13	SD SI CL, TR GV, R-BRN, V MST, ALL
	705						
15							W CL SD
	700						DISCONTINUED.
20							
	695						
25							
	690						
30							
	685						
35							
1''=5'							
		* Lab. Classif.					



<b>WATTS BAR NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT</b>
<b>SOIL PROFILE FIGURE 2.5-475 SHEET 1 OF 1</b>

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-40 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 721.1  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	720						TOPSOIL
5			$\frac{1}{0} \frac{1}{\Sigma}$	24.6	38	13	SI CL, R-BRN, MST, ALL
	715						
10			$\frac{1}{0} \frac{1}{\Sigma}$	24.8	38	13	SI CL, R-BRN, MST, ALL
	710						W ST CL
							DISCONTINUED.
15							
	705						
20							
	700						
25							
	695						
30							
	690						
35							
1' = 5'							
		* Lab. Classif.					

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-41 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 720.6  
PREPARED BY: MHD CHECKED BY: PA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	720						TOPSOIL
5			U <sub>1</sub> Σ	25.4	38	13	SI CL, R-BRN, MST, ALL
	715		U <sub>1</sub> Σ	27.4	38	13	SI CL, R-BRN, V MST, ALL
10							
	710						W ST CL
							DISCONTINUED.
15							
	705						
20							
	700						
25							
	695						
30							
	690						
35							
1''=5'							

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-42 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 723.0  
PREPARED BY: MHD CHECKED BY: EA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	720		U I Σ	22.3	42	16	SI CL, BRN, MST, ALL
10	715		O	19.7	42	18	CL SI, R-TN, MST, ALL -
15	710		O	24.7	42	18	CL SI, TN, V MST, ALL
							W CL ST _____
20	705						DISCONTINUED.
25	700						
30	695						
35	690						
1''=5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-478  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-43 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 730.6  
PREPARED BY: MHD CHECKED BY: PA

DEPTH ft.	EL	SPT (CN)	* LOG	W	LL	PI	FIELD DESCRIPTION
	730						
5	725		$\frac{1}{0} \frac{1}{\Sigma}$	21.8	42	16	SI CL, R-BRN, MST, ALL
10	720		$\frac{1}{0} \frac{1}{\Sigma}$	21.4	42	16	CL SI, TN-BRN, MST, RESD
15	715		$\frac{1}{0}$	20.0	33	13	CL SI, DK R, MST, RESD
20	710						DISCONTINUED.
25	705						
30	700						
35							
1''=5'			* Lab. Classif.				



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SOIL PROFILE  
FIGURE 2.5-479  
SHEET 1 OF 1

"HISTORICAL INFORMATION"

PROJECT: WATTS BAR N.P.  
BORING: PAH-44 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 736.1  
PREPARED BY: MHD CHECKED BY: PA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	735						ROADBED GRAVEL
5			U	18.3	39	18	SI CL, TN-BRN, MST, ALL
	730		U Σ	26.5	42	16	SI CL, R, MST, ALL
10			U	23.6	42	18	CL SI, TN, MST, ALL
	725						
15			U Σ	22.8	42	16	CL SI, TN, MST, ALL
	720						
20							SD & GV
	715						DISCONTINUED.
25							
	710						
30							
	705						
35							
1' = 5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-480  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-45 STATION:  
DATE DRILLED: 6/8/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 736.4  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	735						GRAVEL - SPOILED SOILS
5			U	23.4	42	18	SI CL, R, MST, ALL
	730		U				
10			U	21.4	42	18	CL SI, R, MST, ALL
	725		U	24.1	42	18	CL SI, TN, MST, RESD
15							
	720		U	22.7	42	18	CL SI, TN, MST, RESD
20							
	715						DISCONTINUED.
25							
	710						
30							
	705						
35							
1' = 5'							

\* Lab. Classif.

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-481  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-46 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 729.0 est.  
PREPARED BY: MHD CHECKED BY: 12A

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	725		U	22.5	33	13	SI CL, BRN, MST, ALL
10	720		U	23.2	42	18	CL SI, R-BRN, MST, ALL
15	715		U	25.0	42	18	CL SI, R-BRN, MST, ALL
20	710		U	24.0	42	18	CL SI, R-BRN, MST, ALL
25	705						DISCONTINUED.
30	700						
35	695						
1''=5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-482  
SHEET 1 OF 1

SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-47 STATION:  
DATE DRILLED: 6/10/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 721.0 est.  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
	720						TOPSOIL
5			U1Σ	21.2	38	13	SI CL, R-BRN, MST, ALL
	715		U	28.0	29	12	SI CL, R-BRN, MST, ALL
10							W SI CL (NO SAMPLE)
	710						DISCONTINUED.
15							
	705						
20							
	700						
25							
	695						
30							
	690						
35							
1''=5'							

\* Lab. Classif.



WATTS BAR NUCLEAR PLANT  
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"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-483  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-48 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 713.7  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
							TOPSOIL
5	710		1 0	19.4	29	12	SI CL, BRN-TN, MST, ALL SD SI CL, TN, W
10	705						DISCONTINUED.
15	700						
20	695						
25	690						
30	685						
35	680						
1''=5'			* Lab. Classif.				

WATTS BAR NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT

"HISTORICAL INFORMATION"

SOIL PROFILE  
FIGURE 2.5-484  
SHEET 1 OF 1

PROJECT: WATTS BAR N.P.  
BORING: PAH-49 STATION:  
DATE DRILLED: 6/9/83 TO

FEATURE: BORROW AREA 2C  
RANGE: SURFACE EL: 729.7  
PREPARED BY: MHD CHECKED BY: BA

DEPTH ft.	EL	SPT (N)	* LOG	W	LL	PI	FIELD DESCRIPTION
5	725		CL	19.6	43	20	SI CL, BRN, MST, ALL
10	720		CL	23.4	33	13	SI CL, DK BRN-TN, MST, ALL
15	715		CL	22.9	42	16	SI CL, R, MST, ALL
20	710		CL	22.7	42	18	CL SI, TN-BRN, MST, ALL
25	705						W CL ST
30	700						DISCONTINUED.
35	695						
1"=5'			* Lab. Classif.				