

GROUP SYMBOLS	TYPICAL NAMES	GROUP SYMBOLS	TYPICAL NAMES	Undisturbed Sample 1.5-2.0 = Recovered (ft) / Pushed (ft)
	TOPSOIL		CONCRETE	Split Spoon Sample
				Auger Cuttings
	ASPHALT		DOLOMITE	Rock Core 60-100 = RQD / Recovery
				Dilatometer
				No Sample
				Crandall Sampler
	GRAVEL		LIMESTONE	Rotary Drill
				Pressure Meter
				Water Table at time of drilling
				No Recovery
				Water Table after 24 hours
	FILL		SHALE	
	SUBSOIL		LIMESTONE/SHALE - Limestone with shale interbeds	
	ALLUVIUM		SANDSTONE	
	COLLUVIUM		SILTSTONE	
	RESIDUUM - Soft to firm		AUGER BORING	
	RESIDUUM - Stiff to very hard		UNDISTURBED SAMPLE ATTEMPT	

Correlation of Penetration Resistance  
with Relative Density and Consistency

SAND & GRAVEL		SILT & CLAY	
No. of Blows	Relative Density	No. of Blows	Consistency
0 - 4	Very Loose	0 - 2	Very Soft
5 - 10	Loose	3 - 4	Soft
11 - 20	Firm	5 - 8	Firm
21 - 30	Very Firm	9 - 15	Stiff
31 - 50	Dense	16 - 30	Very Stiff
Over 50	Very Dense	31 - 50	Hard
		Over 50	Very Hard

**BOUNDARY CLASSIFICATIONS:** Soils possessing characteristics of two groups are designated by combinations of group symbols.

SILT OR CLAY	SAND			GRAVEL		Cobbles	Boulders
	Fine	Medium	Coarse	Fine	Coarse		
	No.200	No.40	No.10	No.4	3/4"	3"	12"

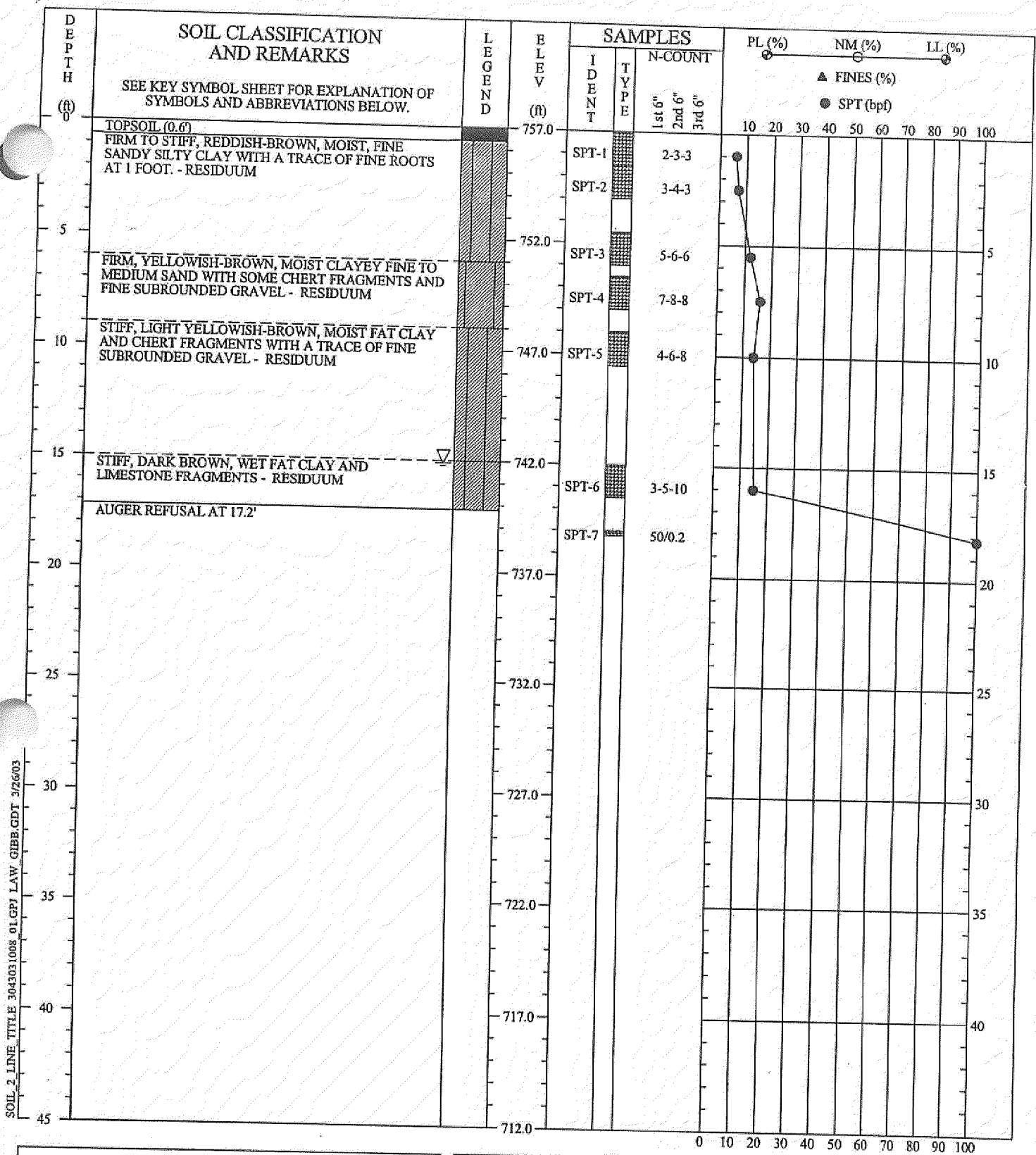
U.S. STANDARD SIEVE SIZE

Reference: The Unified Soil Classification System, Corps of Engineers, U.S. Army Technical Memorandum No. 3-357, Vol. 1, March, 1953 (Revised April, 1960)

## KEY TO SYMBOLS AND DESCRIPTIONS




MACTEC Engineering and Consulting of Georgia, Inc.  
1725 Louisville Drive  
Knoxville, Tennessee 37921-5904  
865-588-8544 • Fax: 865-588-8026

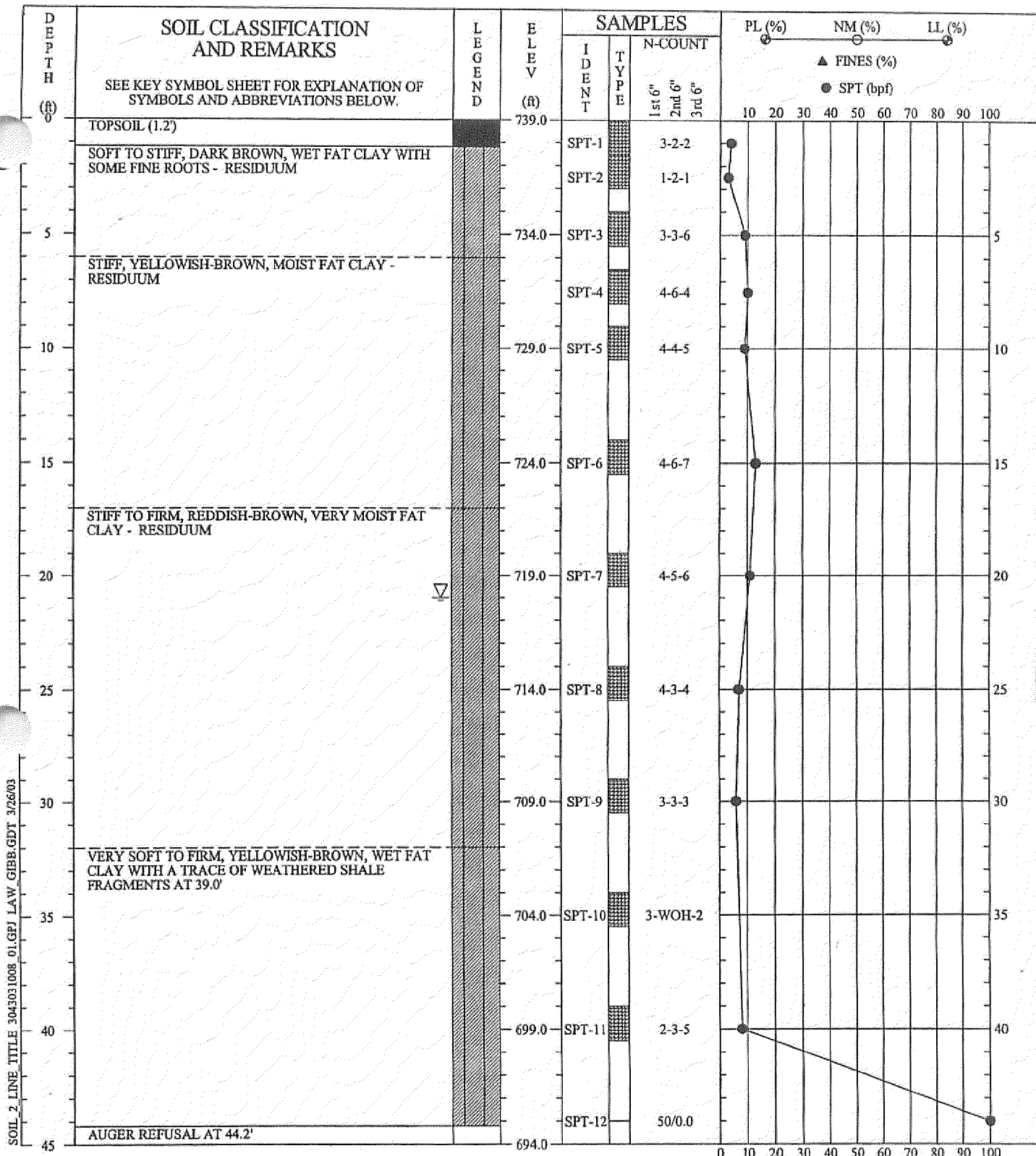


SOIL 2 LINE TITLE 3043031008 01.GPJ LAW GIBB.GDT 3/26/03

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER.

SOIL TEST BORING RECORD	
PROJECT:	Proposed Scrubber Waste Disposal Area TVA - Kingston Fossil Plant
DRILLED:	March 10, 2003
BORING NO.:	B-11
PROJ. NO.:	3043031008/0001
PAGE 1 OF 1	
 <b>MACTEC</b>	

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.



SOIL\_2\_LINE\_TITLE 3043031008 01.GPJ LAW GIBB.GDT 3/26/03

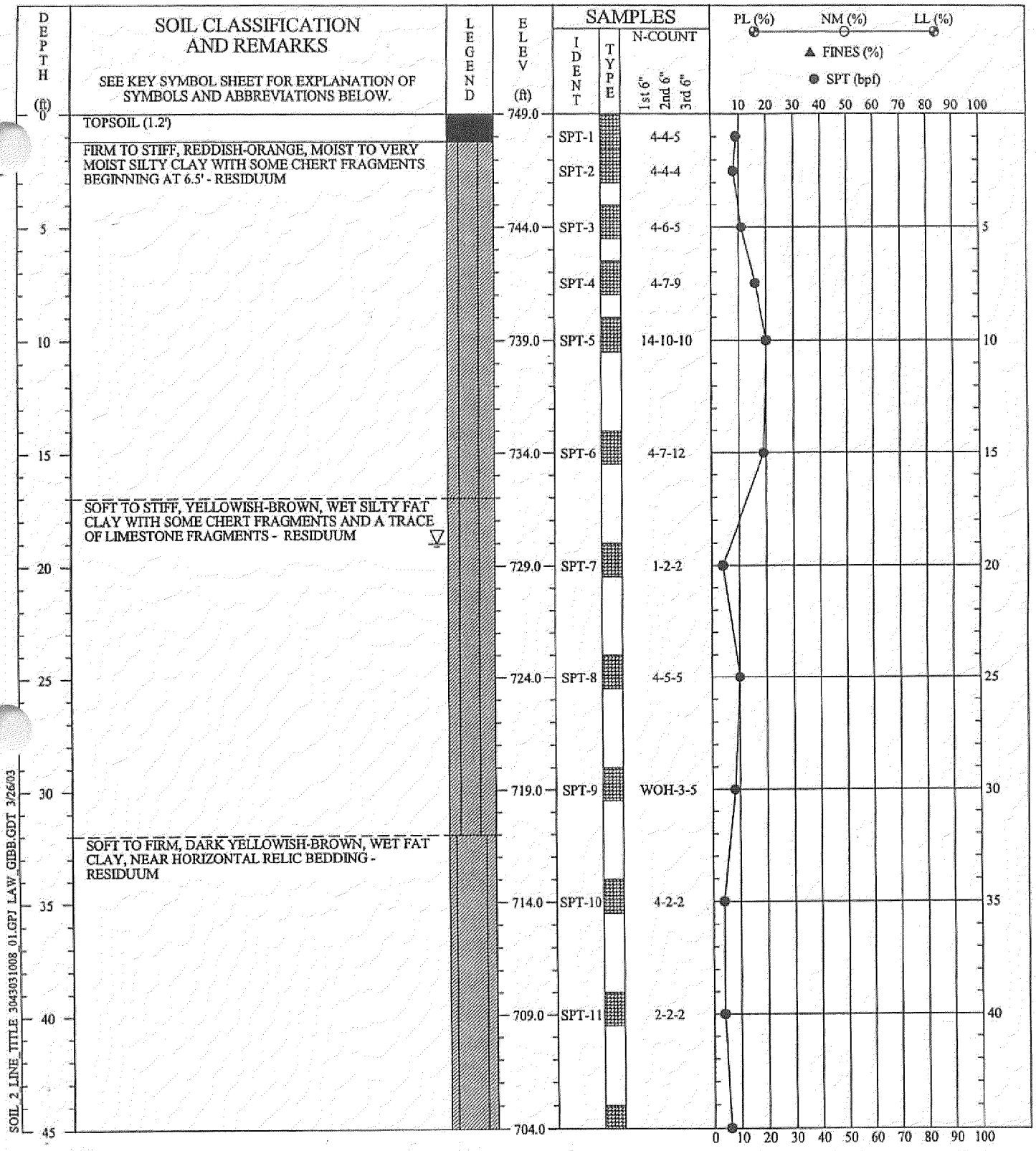
REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER.

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**SOIL TEST BORING RECORD**

**PROJECT:** Proposed Scrubber Waste Disposal Area  
 TVA - Kingston Fossil Plant  
**DRILLED:** March 6, 2003 **BORING NO.:** B-12  
**PROJ. NO.:** 3043031008/0001 **PAGE 1 OF 1**





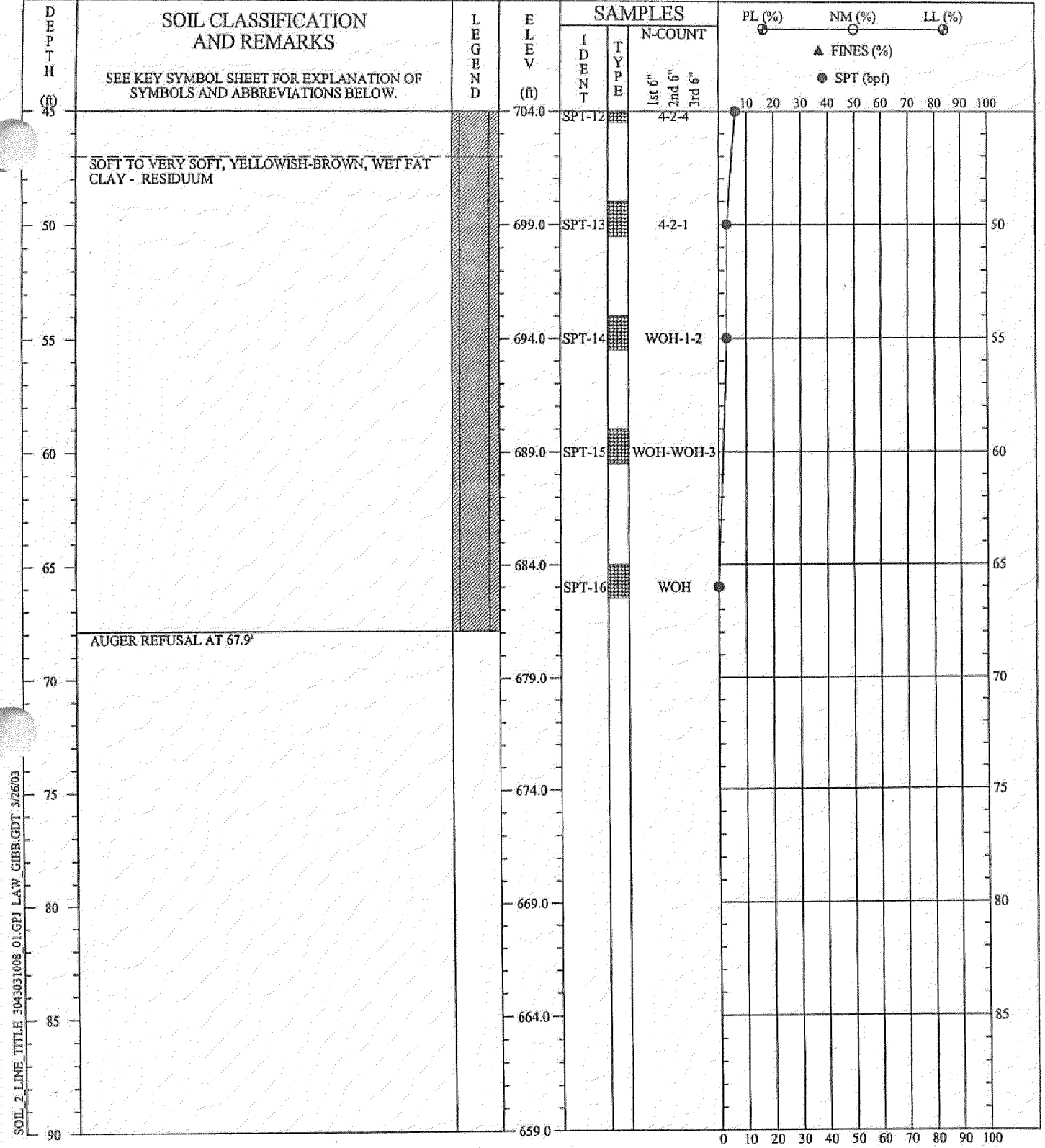
SOIL 2 LINE TITLE 3043031008\_01.GPJ LAW\_GIBB.GDT 3/26/03

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SOIL TEST BORING RECORD	
<b>PROJECT:</b>	Proposed Scrubber Waste Disposal Area TVA - Kingston Fossil Plant
<b>DRILLED:</b>	February 5, 2003
<b>BORING NO.:</b>	B-13
<b>PROJ. NO.:</b>	3043031008/0001
<b>PAGE</b>	1 OF 2




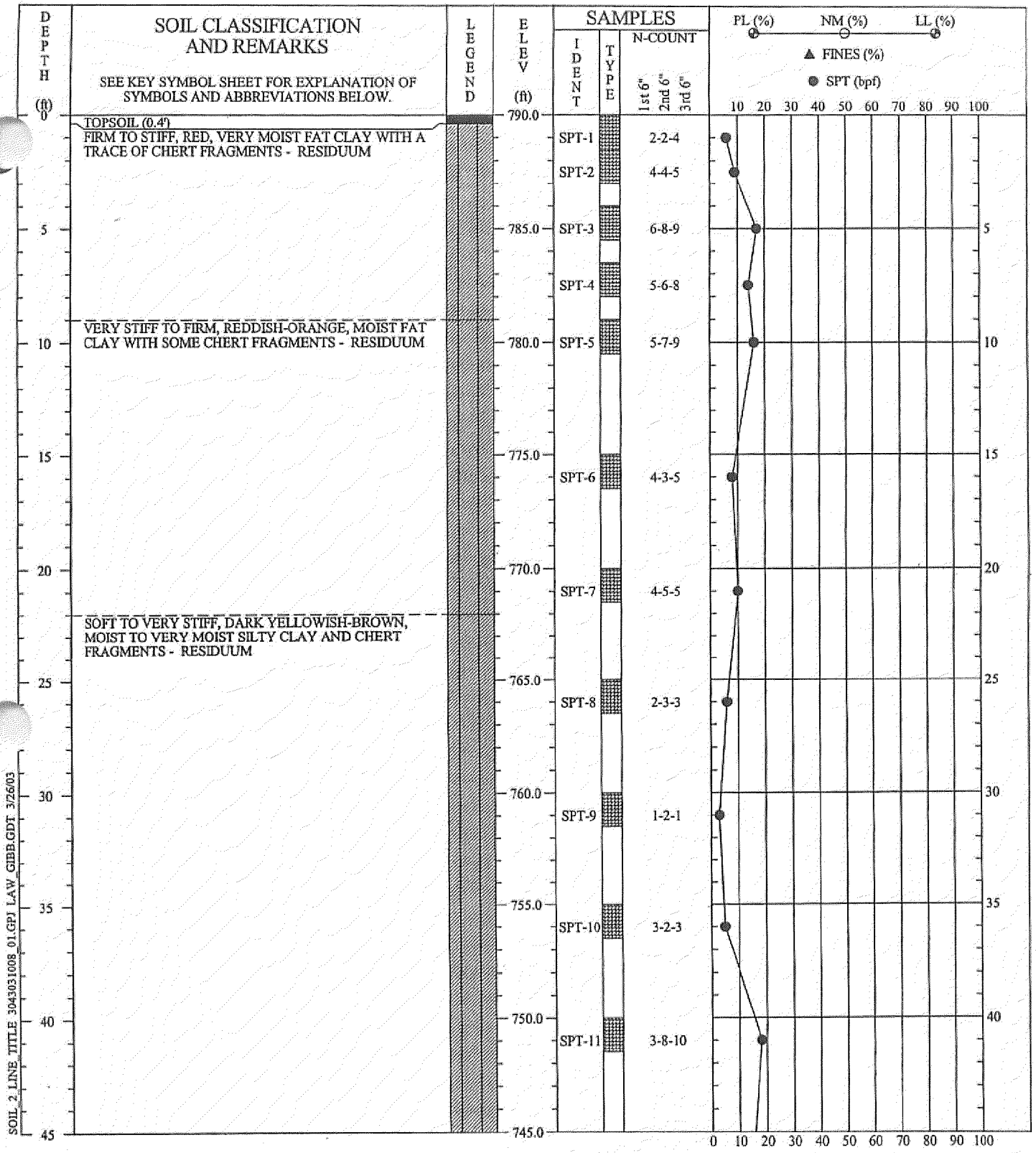


SOIL 2 LINE TITLE 3043031008 01.GPJ LAW\_GIBB.GDT 3/26/03

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SOIL TEST BORING RECORD	
<b>PROJECT:</b>	Proposed Scrubber Waste Disposal Area TVA - Kingston Fossil Plant
<b>DRILLED:</b>	February 5, 2003
<b>BORING NO.:</b>	B-13
<b>PROJ. NO.:</b>	3043031008/0001
<b>PAGE 2 OF 2</b>	
 <b>MACTEC</b>	

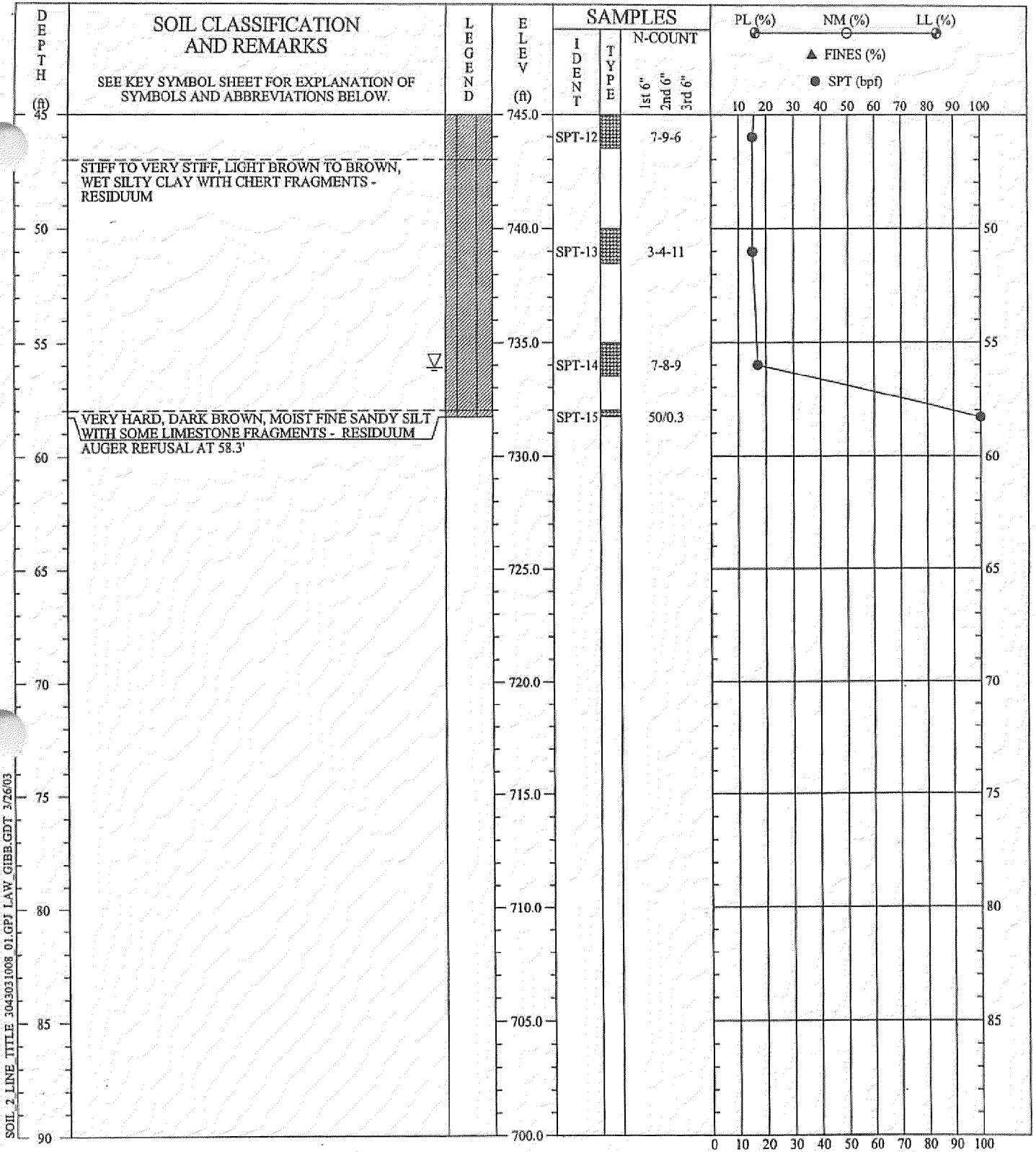


SOIL 2 LINE TITLE 3043031008\_01.GPJ LAW\_GIBB.GDT 3/26/03

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SOIL TEST BORING RECORD	
<b>PROJECT:</b>	Proposed Scrubber Waste Disposal Area TVA - Kingston Fossil Plant
<b>DRILLED:</b>	March 10, 2003
<b>BORING NO.:</b>	B-18
<b>PROJ. NO.:</b>	3043031008/0001
<b>PAGE</b>	1 OF 2

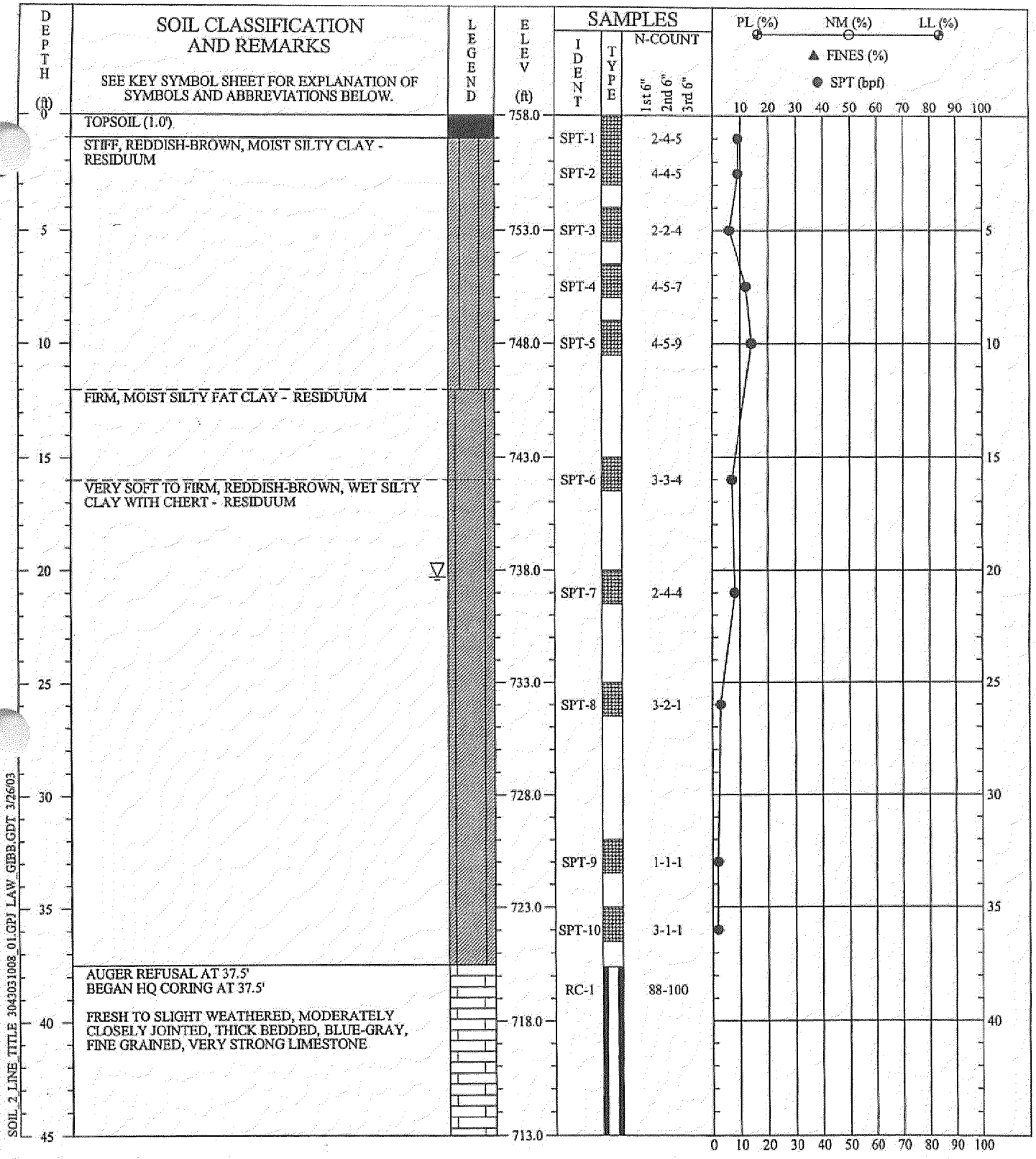


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SOIL TEST BORING RECORD	
<b>PROJECT:</b>	Proposed Scrubber Waste Disposal Area TVA - Kingston Fossil Plant
<b>DRILLED:</b>	March 10, 2003 <b>BORING NO.:</b> B-18
<b>PROJ. NO.:</b>	3043031008/0001 <b>PAGE 2 OF 2</b>
 <b>MACTEC</b>	



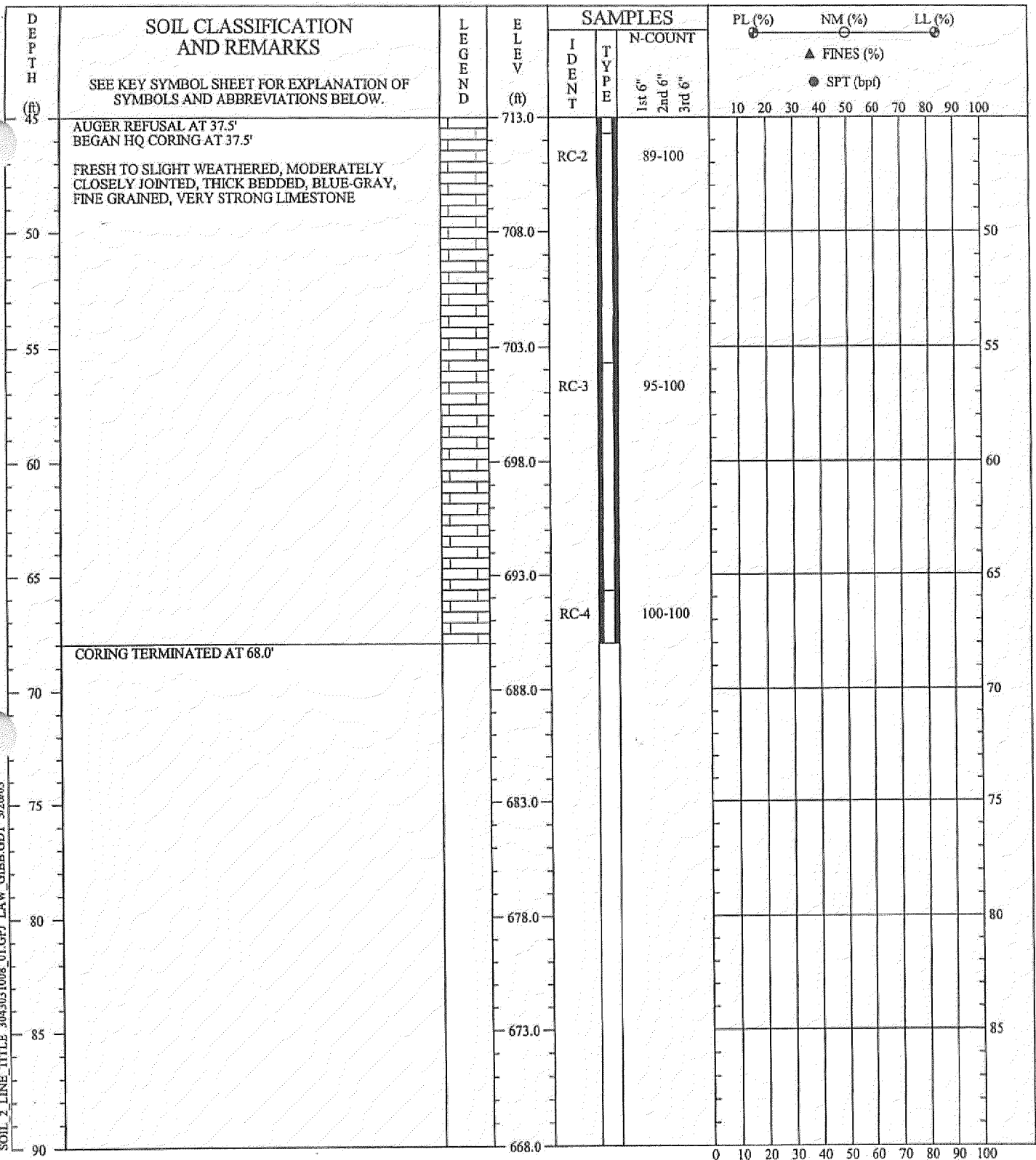
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REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER.

SOIL TEST BORING RECORD	
PROJECT:	Proposed Scrubber Waste Disposal Area TVA - Kingston Fossil Plant
DRILLED:	BORING NO.: B-22
PROJ. NO.:	3043031008/0001
	PAGE 1 OF 2

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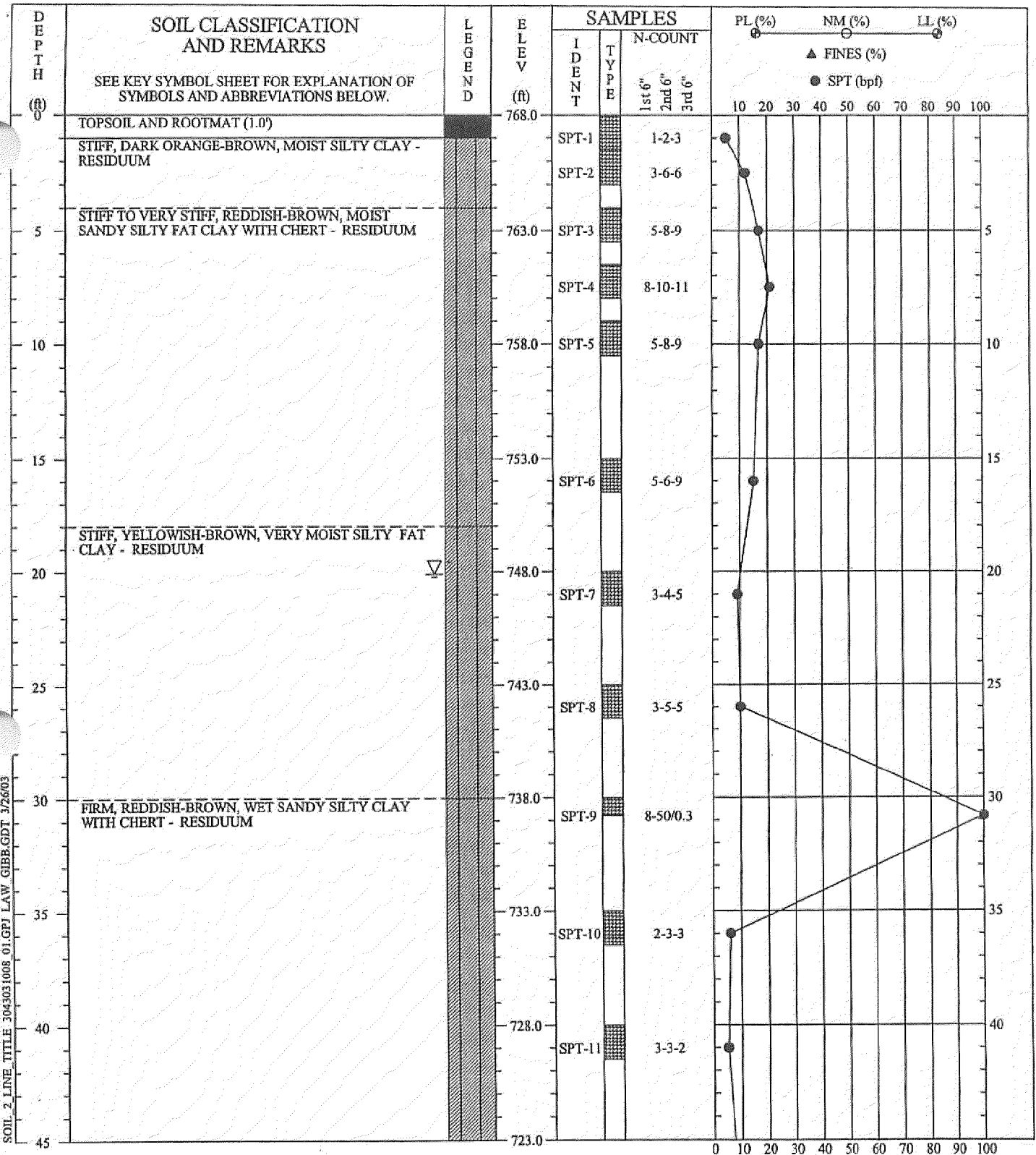


SOIL 2 LINE TITLE 3043031008 01.GPJ LAW GIBB.GDT 3/26/03

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SOIL TEST BORING RECORD	
PROJECT:	Proposed Scrubber Waste Disposal Area TVA - Kingston Fossil Plant
DRILLED:	BORING NO.: B-22
PROJ. NO.:	3043031008/0001
	PAGE 2 OF 2
 <b>MACTEC</b>	



SOIL 2 LINE TITLE 3043031008 01.GPJ LAW GIBB.GDT 3/26/03

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER.

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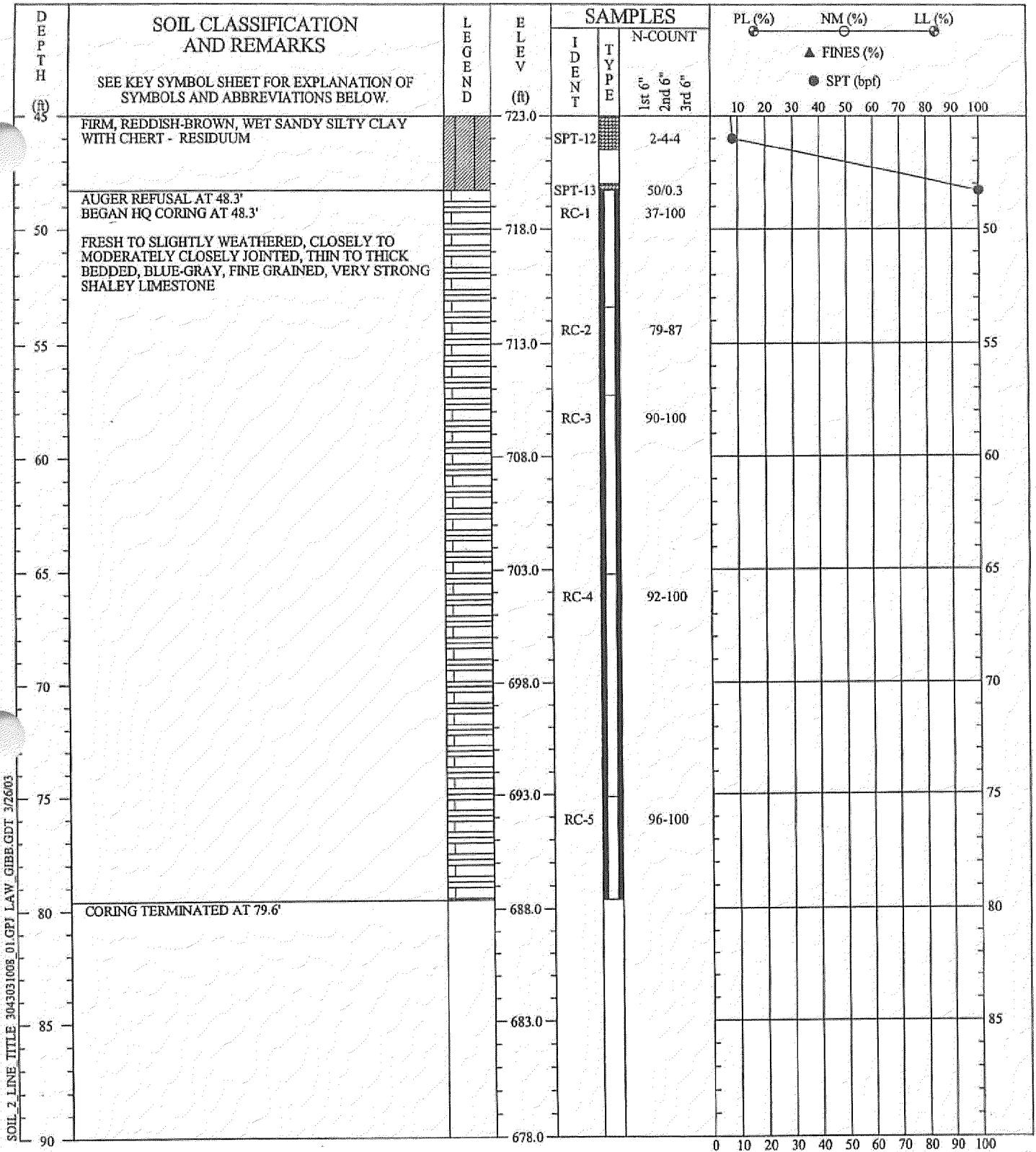
**SOIL TEST BORING RECORD**

**PROJECT:** Proposed Scrubber Waste Disposal Area  
TVA - Kingston Fossil Plant

**DRILLED:** **BORING NO.:** B-23

**PROJ. NO.:** 3043031008/0001 **PAGE 1 OF 2**

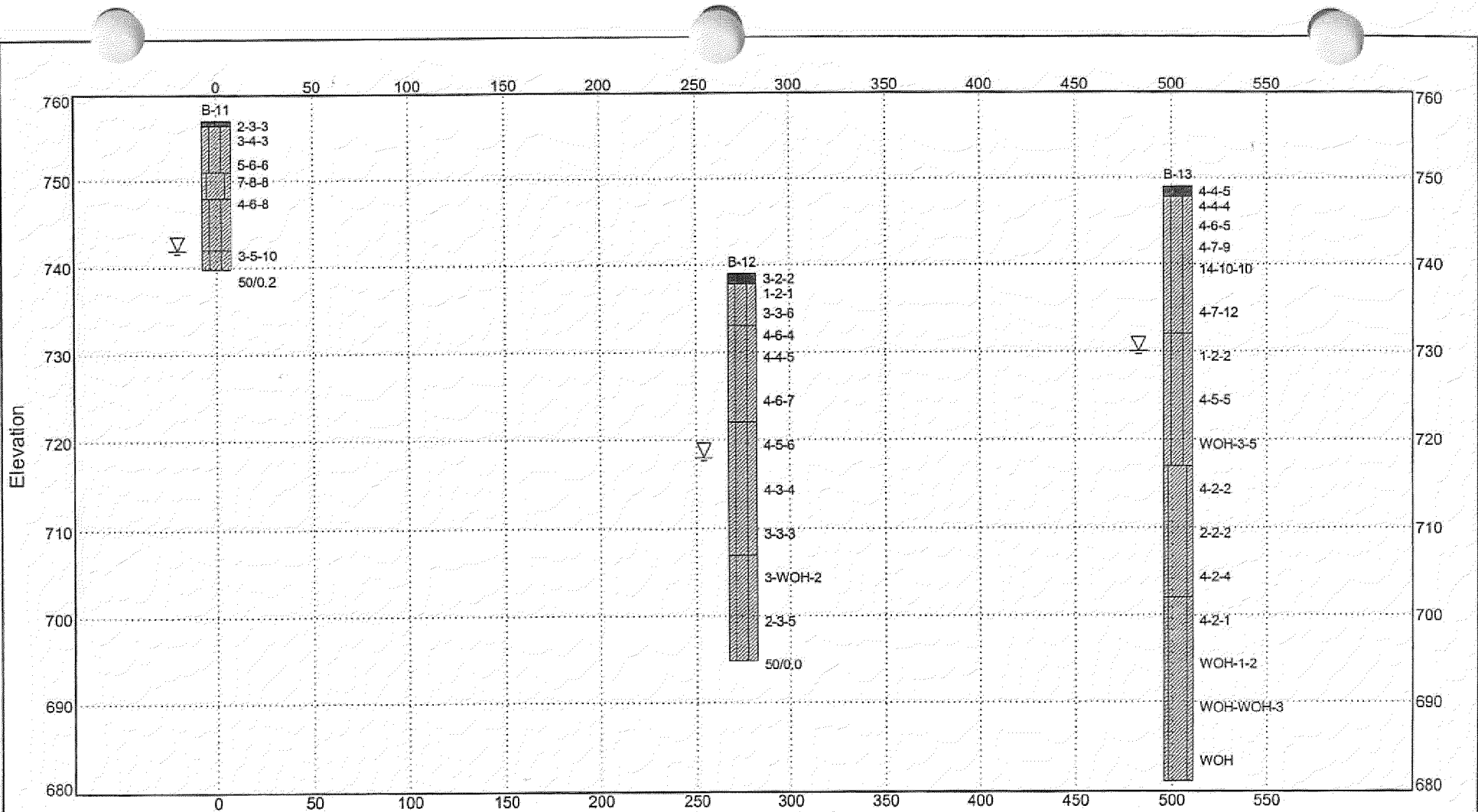




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SOIL TEST BORING RECORD	
<b>PROJECT:</b>	Proposed Scrubber Waste Disposal Area TVA - Kingston Fossil Plant
<b>DRILLED:</b>	<b>BORING NO.:</b> B-23
<b>PROJ. NO.:</b> 3043031008/0001	<b>PAGE 2 OF 2</b>



Distance Along Baseline

SEE KEY SYMBOL SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS

Borehole	North	East	Elev.	Depth
B-11	1684	1697	757.0	17.2
B-12	1959	1812	739.0	44.2
B-13	2052	2041	749.0	67.9

DISTANCES:

Beginning 0

Ending 550

VIEWING ANGLES (degrees):

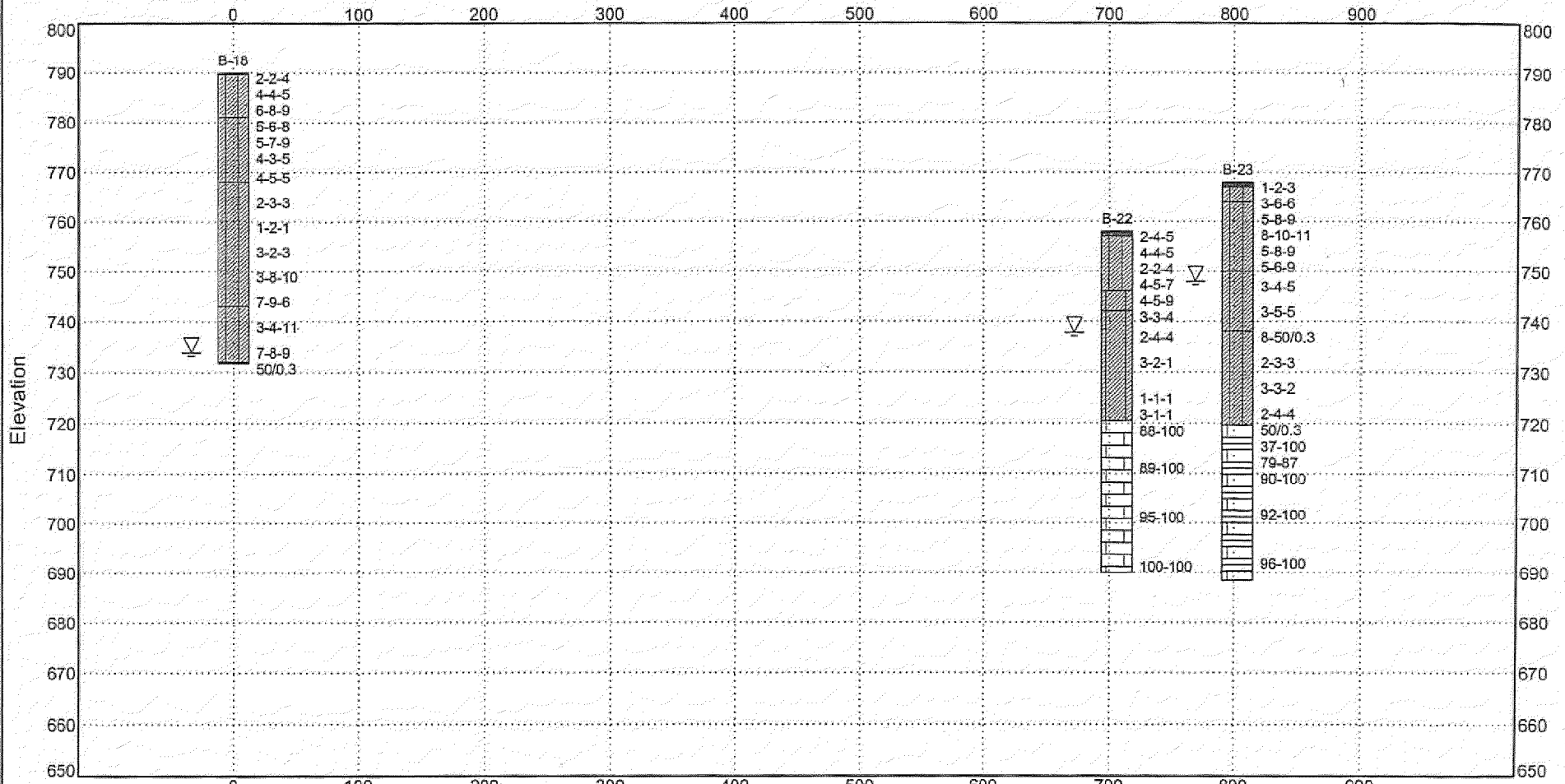
Horizontal 0.0

Vertical 0.0

Position	North	East
Left, Front	1717	1664
Right, Front	2101	2058
Left, Back	1717	1664
Right, Back	2101	2058

SUBSURFACE FENCE DIAGRAM A - A'		
Proposed Scrubber Waste Disposal Area		
TVA - Kingston Fossil Plant		
PROJECT #	DATE	PLATE
3043031008/0001	Mar 03	1

SECTION# 3043031008 01.GPJ FAGWGN01.GDT 3/26/03



Distance Along Baseline

SEE KEY SYMBOL SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS

Borehole	North	East	Elev.	Depth
B-18	1020	2194	790.0	58.3
B-22	1491	2722	758.0	100.0
B-23	1635	2712	768.0	100.0

DISTANCES:

Beginning 0

Ending 900

VIEWING ANGLES (degrees):

Horizontal 0.0

Vertical 0.0

Position	North	East
Left, Front	1021	2193
Right, Front	1668	2819
Left, Back	1021	2193
Right, Back	1668	2819

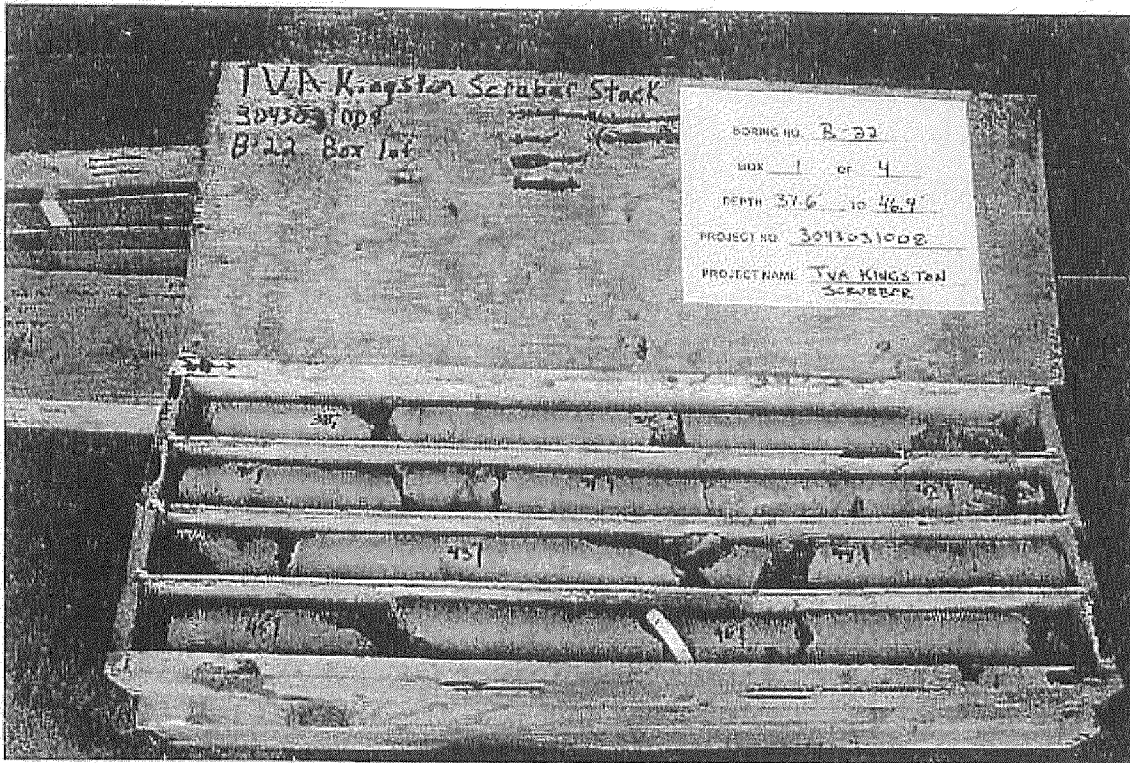
SUBSURFACE FENCE DIAGRAM B - B'

Proposed Scrubber Waste Disposal Area

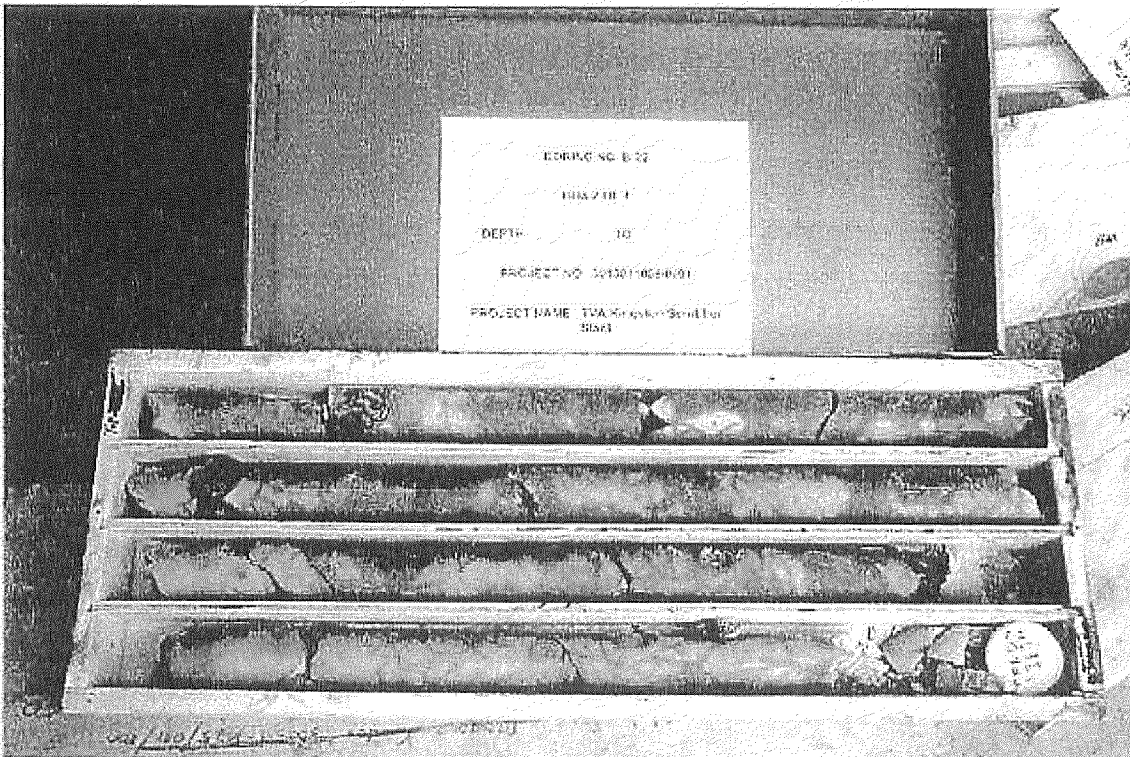
TVA - Kingston Fossil Plant

PROJECT #	DATE	PLATE
3043031008/0001	Mar 03	1

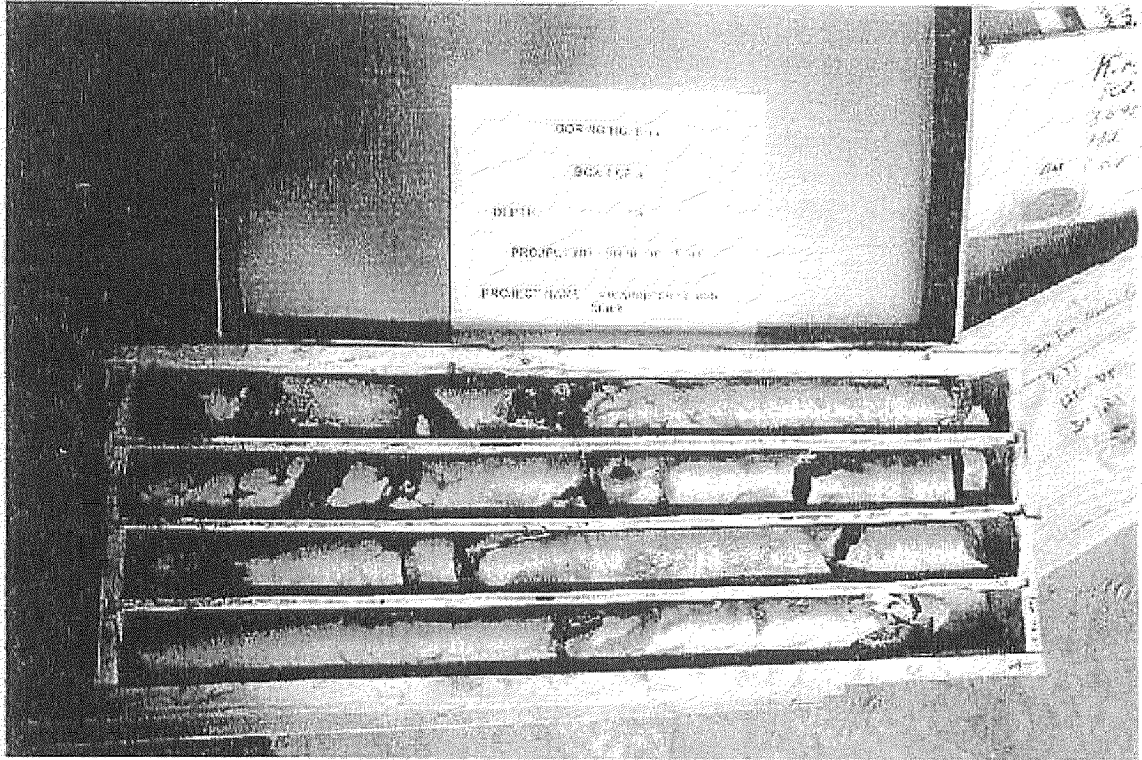
SECTION 3043031008 01.GPJ FAGWGN01.GDT 3/26/03



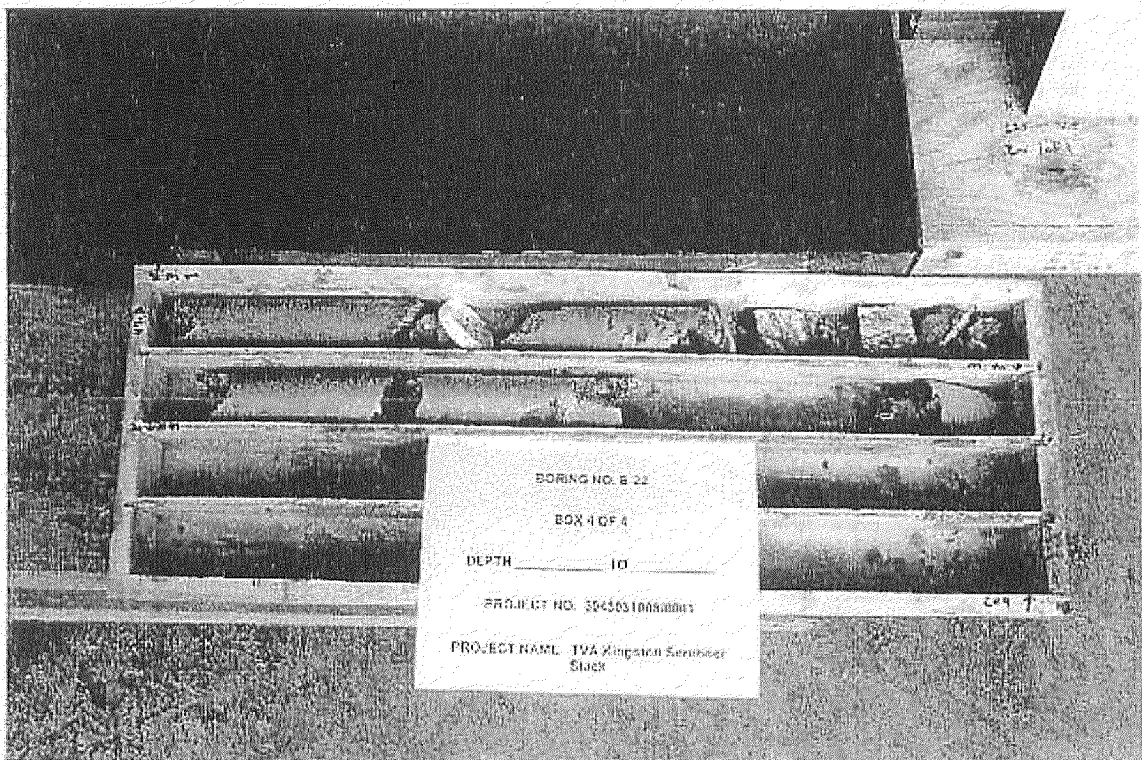
Photograph 1 - Boring B-22, Box 1 of 4, 37.6 to 46.9 Feet.



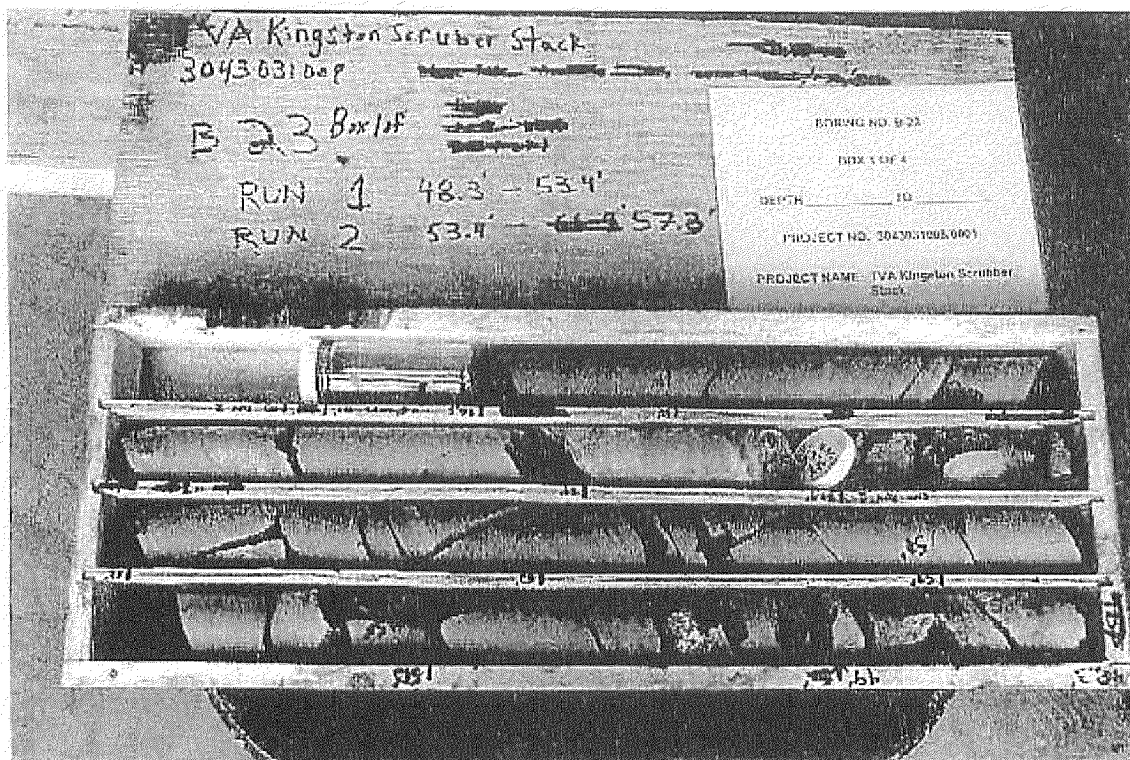
Photograph 2 - Boring B-22, Box 2 of 4, 46.9 to 55.7 Feet.



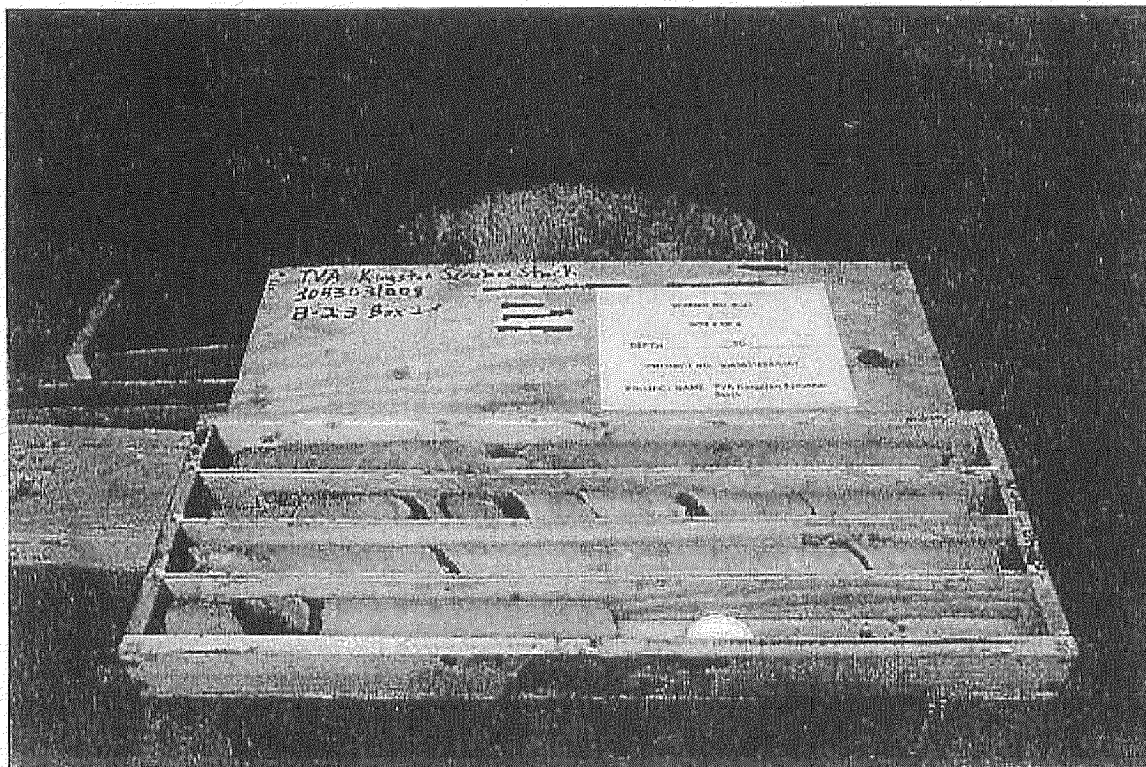
Photograph 3 - Boring B-22, Box 3 of 4, 55.7 to 64.7 Feet.



Photograph 4 - Boring B-22, Box 4 of 4, 64.7 to 68.0 Feet.



Photograph 5 - Boring B-23, Box 1 of 4, 48.3 to 57.3 Feet.

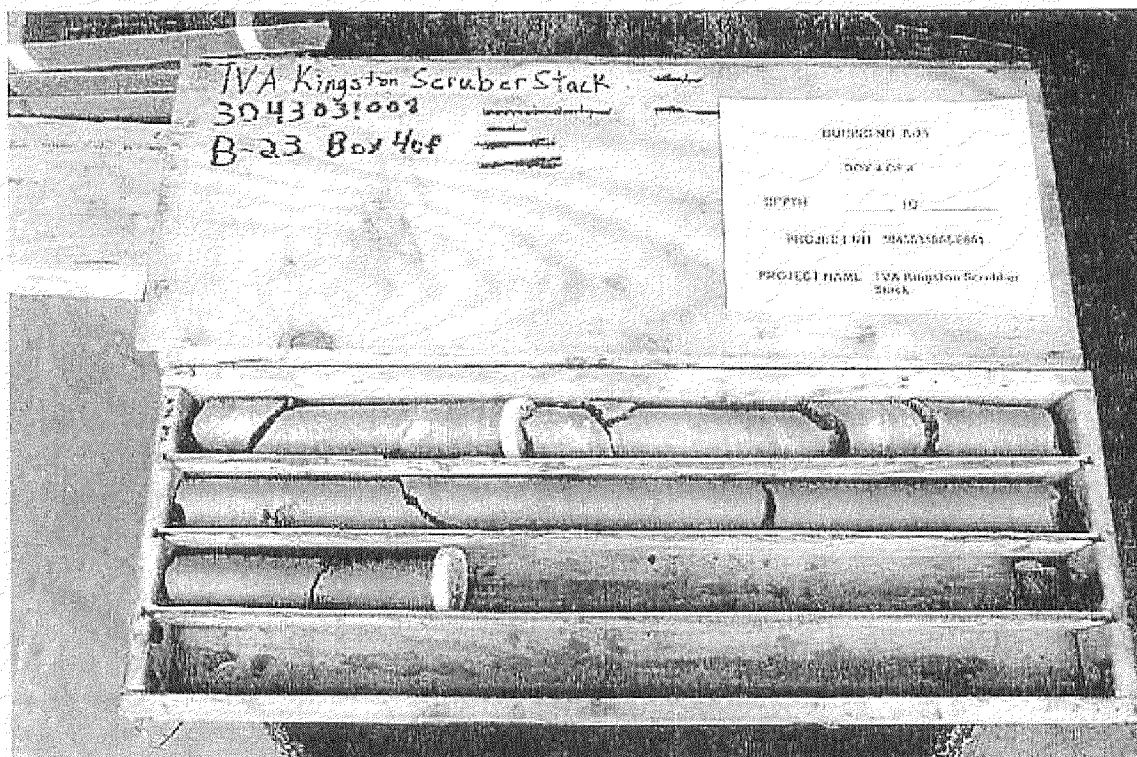


Photograph 6 - Boring B-23, Box 2 of 4, 57.3 to 65.2 Feet.





Photograph 7 - Boring B-23, Box 3 of 4, 65.2 to 75.1 Feet.



Photograph 8 - Boring B-23, Box 4 of 4, 75.1 to 79.6 Feet.

Table C-1

Natural Moisture Content and Atterberg Limits Laboratory Test Results

TVA Kingston Scrubber Stack

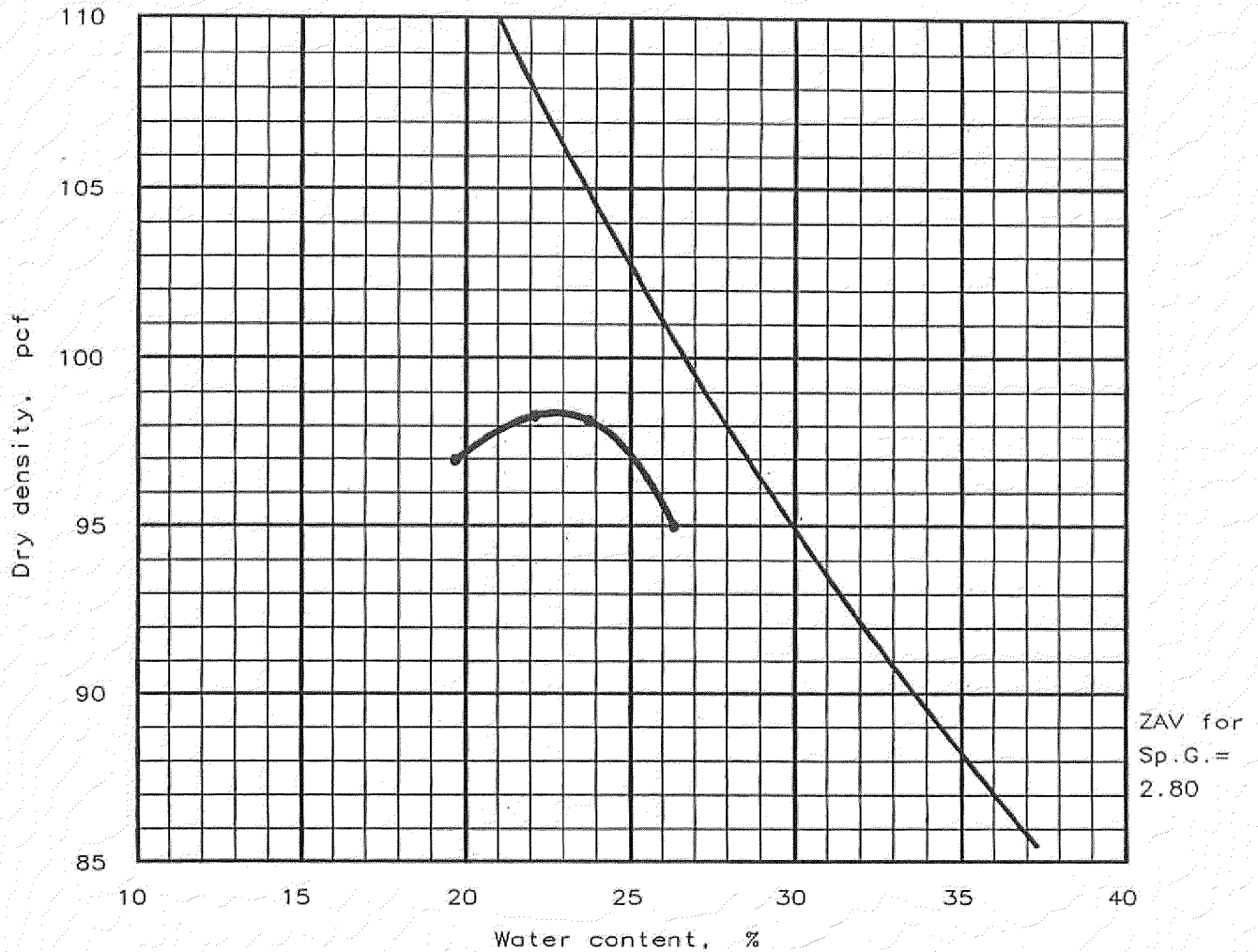
MACTEC Project 3043031008/0001

Boring Number	Sample Number	Sample Type	Sample Depth (Feet)	Moisture Content (%)	Atterberg Limits		
					Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)
B-13	3	SPT	4 - 5.5	42	88	36	52
B-13	4	SPT	6.5 - 8	37			
B-13	8	SPT	24 - 25.5	39	64	28	36
B-13	9	SPT	29 - 30.5	40			
B-13	10	SPT	34 - 35.5	69	85	44	41
B-13	11	SPT	39 - 40.5	102			
B-13	14	SPT	54 - 55.5	65	77	31	46
B-13	15	SPT	59 - 60.5	60			
B-18	3	SPT	4 - 5.5	29	NT	NT	NT
B-18	8	SPT	25 - 26.5	33	NT	NT	NT
B-18	11	SPT	40 - 41.5	25	NT	NT	NT
B-18	14	SPT	55 - 56.5	29	NT	NT	NT
B-18	NA	Bulk	DNS	25	66	26	40
B-23	2	SPT	DNS	27	NT	NT	NT
B-23	4	SPT	DNS	30	NT	NT	NT
B-23	6	SPT	DNS	38	NT	NT	NT
B-23	7	SPT	DNS	35	71	26	45
B-23	8	SPT	DNS	NT			
B-23	9	SPT	DNS	25	NT	NT	NT
B-23	10	SPT	DNS	48	71	30	41
B-23	11	SPT	DNS	NT			
B-23	12	SPT	DNS	50	NT	NT	NT

DNS - Data Not Submitted  
 NT - Not Tested  
 SPT - Standard Penetration Test  
 Bulk - Bulk Sample

Prepared By Mmn Date 3/26/03 Checked By ADT Date 3/26/03

# MOISTURE-DENSITY RELATIONSHIP TEST



Test specification: ASTM D 698-00a Procedure B, Standard

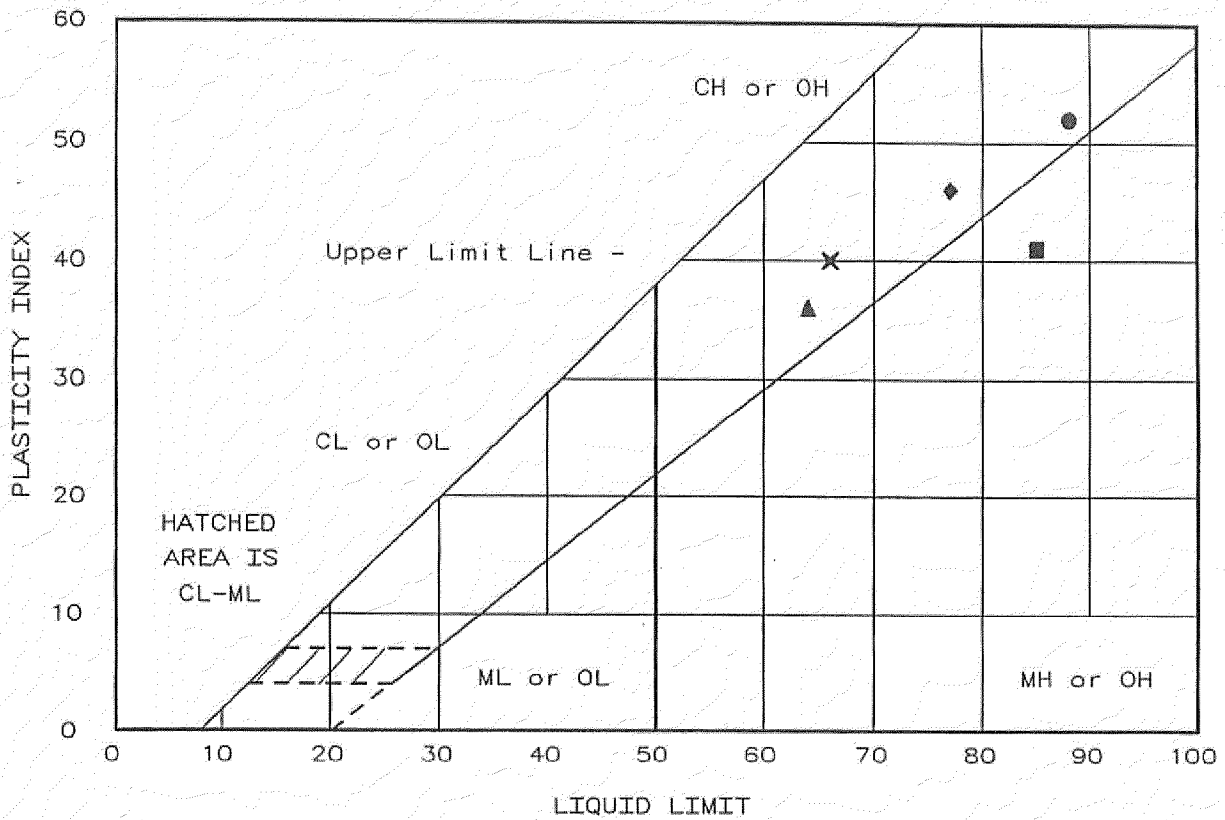
Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in	% < No.200
	USCS	AASHTO						
DNS	CH	A-7-6(44)	24.5 %	NT	66	40	0 %	95.7 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 98.4 pcf Optimum moisture = 22.8 %	Orange brown silty clay

Project No.: 3043031008.0001 Project: TVA Kingston Fossil Scrubber Stack Location: Boring B-18 auger cuttings Date: 3-20-2003	Remarks: Sample Number 2754 NT- No Test DNS- Data Not Submitted
--	--

MOISTURE-DENSITY RELATIONSHIP TEST LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.	Fig. No. 2754
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# LIQUID AND PLASTIC LIMITS TEST REPORT



Location + Description	LL	PL	PI	-200	USCS	AASHTO
● Boring B-13, 4-5.5' & 6.5'-8'+ Orange brown silty clay	88	36	52	92.2	CH	A-7-5(57)
▲ Boring B-13, 24-25.5' & 29-30.5'+ Orange brown clayey sand	64	28	36	48.4	SC	A-7-6(13)
■ Boring B-13, 34-35.5' & 39-40.5'+ Dark brown clayey silt	85	44	41	97.2	MH	A-7-5(52)
◆ Boring B-13, 54-55.5' & 59-60.5'+ Light brown silty clay	77	31	46	95.2	CH	A-7-5(52)
X Boring B-18 Bulk auger cuttings+ Orange brown silty clay	66	26	40	95.7	CH	A-7-6(44)

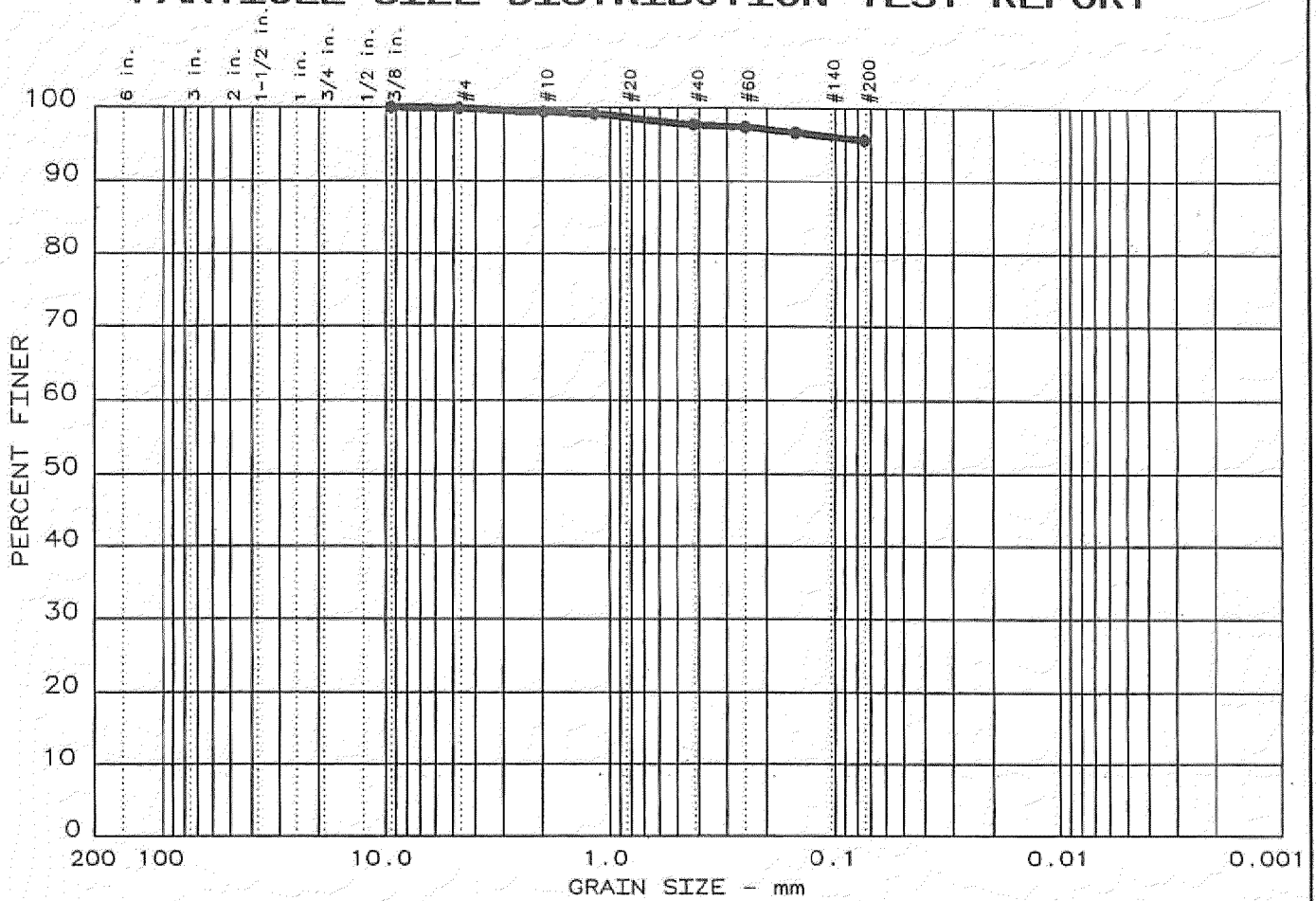
Project No.: 3043031008  
 Project: TVA Kingston Fossil Scrubber Stack  
 Client: TVA  
 Location: Kingston, Tennessee  
 Date: 3-20-2003

Remarks:  
 Phase 0001  
 NT- No Test  
 DNS- Data Not Submitted

LIQUID AND PLASTIC LIMITS TEST REPORT  
**LAW ENGINEERING AND  
 ENVIRONMENTAL SERVICES, INC.**

Fig. No. B-13/18

# PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
● 11	0.0	0.1	4.2	95.7		CH	66	40

SIEVE inches size	PERCENT FINER		
	●		
0.375	100.0		
GRAIN SIZE			
D <sub>60</sub> D <sub>30</sub> D <sub>10</sub>			
COEFFICIENTS			
C <sub>c</sub> C <sub>u</sub>			

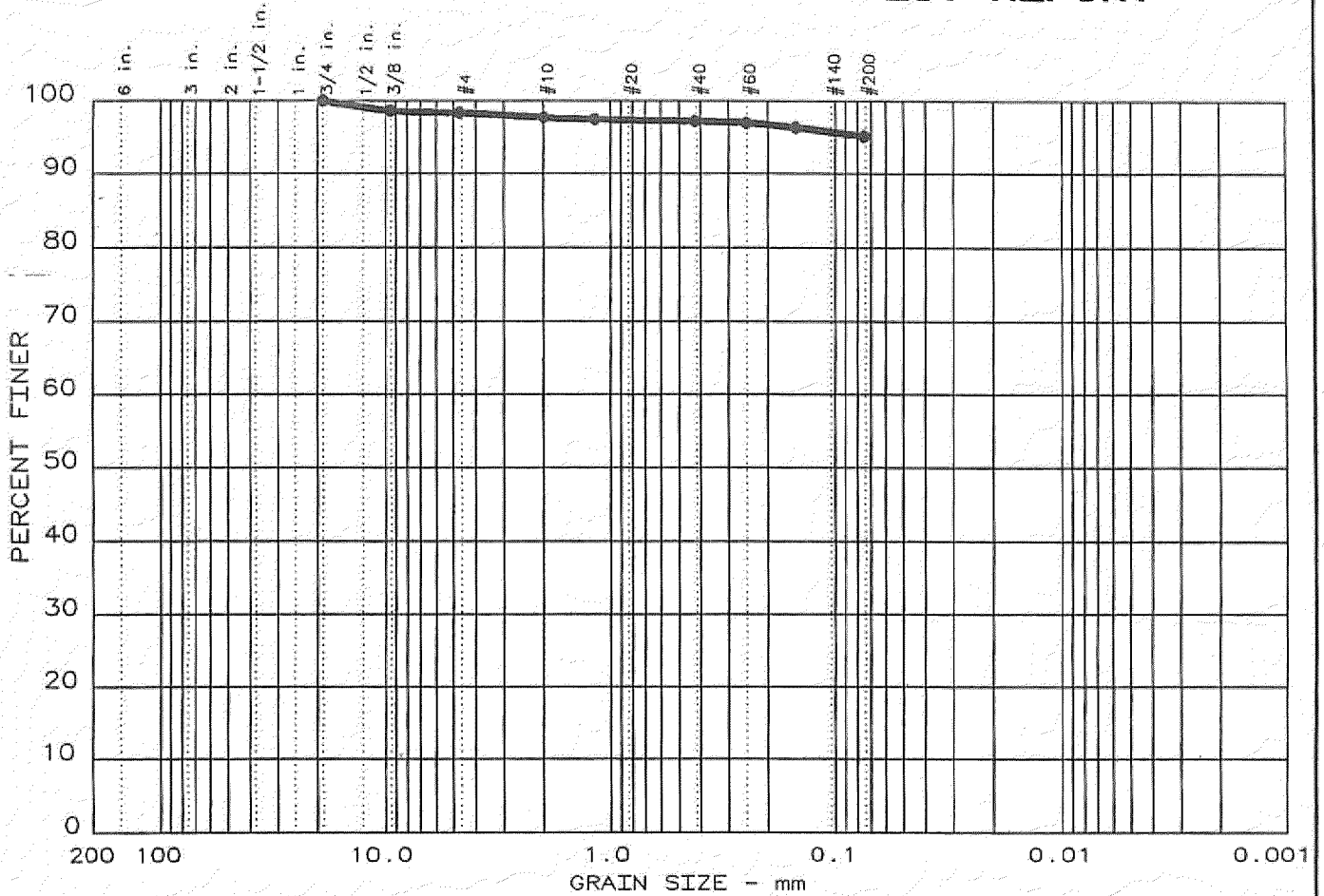
SIEVE number size	PERCENT FINER		
	●		
4	99.9		
10	99.4		
16	99.1		
40	97.7		
60	97.4		
100	96.7		
200	95.7		

Sample information:  
 ● B-18, Bulk auger sample  
 Orange brown silty clay

Remarks:  
 Methods: Particle Size:  
 ASTM D 422-63(1998);  
 % < No.200:ASTM D1140-00  
 LL/PI: ASTM D 4318-00

<b>LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.</b>	Project No.: 3043031008.0001 Project: TVA Kingston Fossil Scrubber Stack Date: 3-20-2003 <span style="float: right;">Fig. No.: B18</span>
---	---

# PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
● 10	0.0	1.7	3.1	95.2		CH	77	46

SIEVE inches size	PERCENT FINER		
	●		
0.75	100.0		
0.375	98.6		
<del> </del> GRAIN SIZE			
D <sub>60</sub>			
D <sub>30</sub>			
D <sub>10</sub>			
<del> </del> COEFFICIENTS			
C <sub>c</sub>			
C <sub>u</sub>			

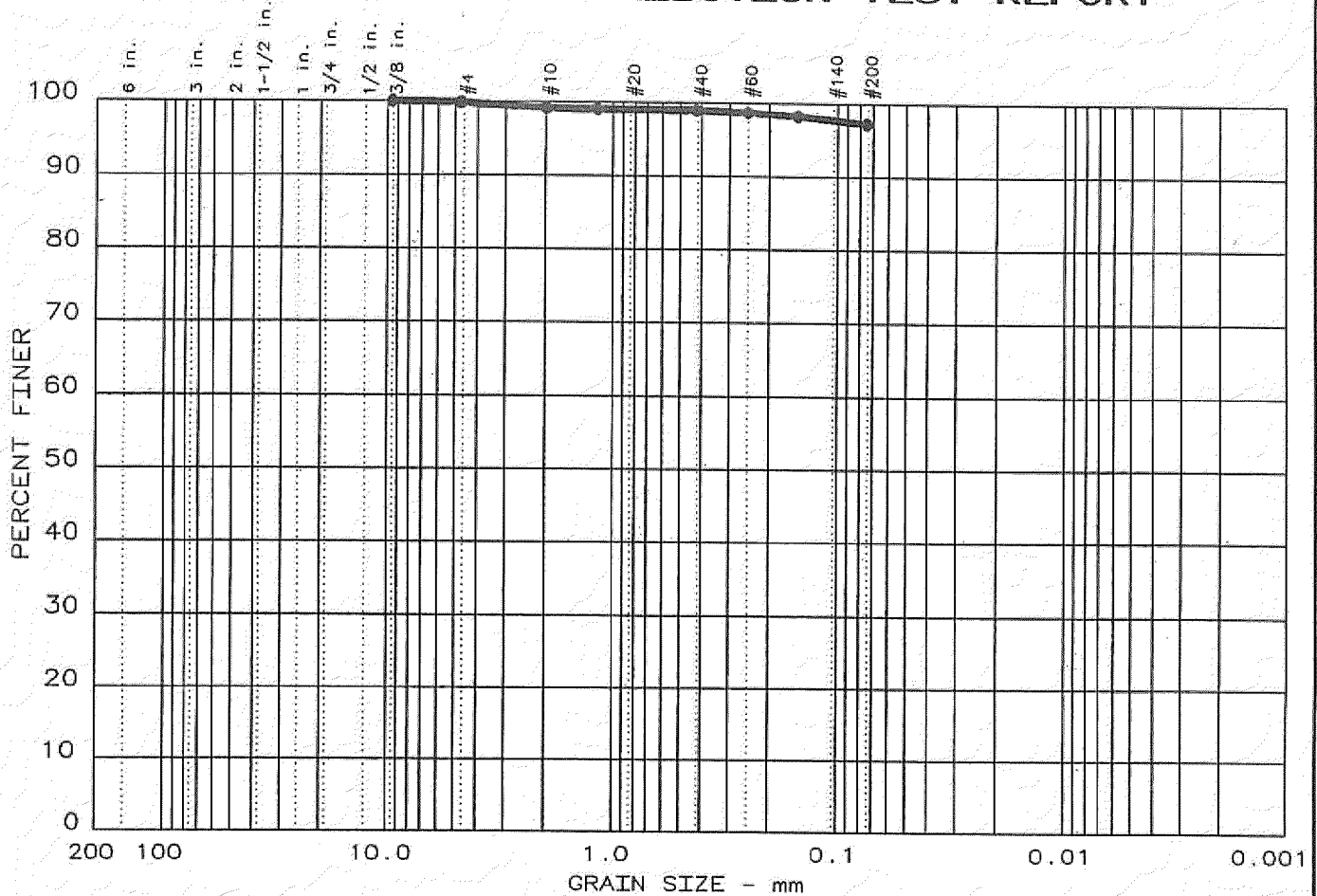
SIEVE number size	PERCENT FINER		
	●		
4	98.3		
10	97.7		
16	97.4		
40	97.2		
60	96.9		
100	96.3		
200	95.2		

Sample information:  
 ● B-13,54-55.5 & 59-60.5'  
 Light brown silty clay

Remarks:  
 Methods: Particle Size:  
 ASTM D 422-63(1998);  
 % < No.200:ASTM D1140-00  
 LL/PI: ASTM D 4318-00

<b>LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.</b>	Project No.: 3043031008.0001 Project: TVA Kingston Fossil Scrubber Stack Date: 3-20-2003 <span style="float: right;">Fig. No.: B13</span>
---	---

# PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
9	0.0	0.2	2.6	97.2		MH	85	41

SIEVE inches size	PERCENT FINER		
	●		
0.375	100.0		
<del> </del> GRAIN SIZE <del> </del>			
D <sub>60</sub>			
D <sub>30</sub>			
D <sub>10</sub>			
<del> </del> COEFFICIENTS <del> </del>			
C <sub>c</sub>			
C <sub>u</sub>			

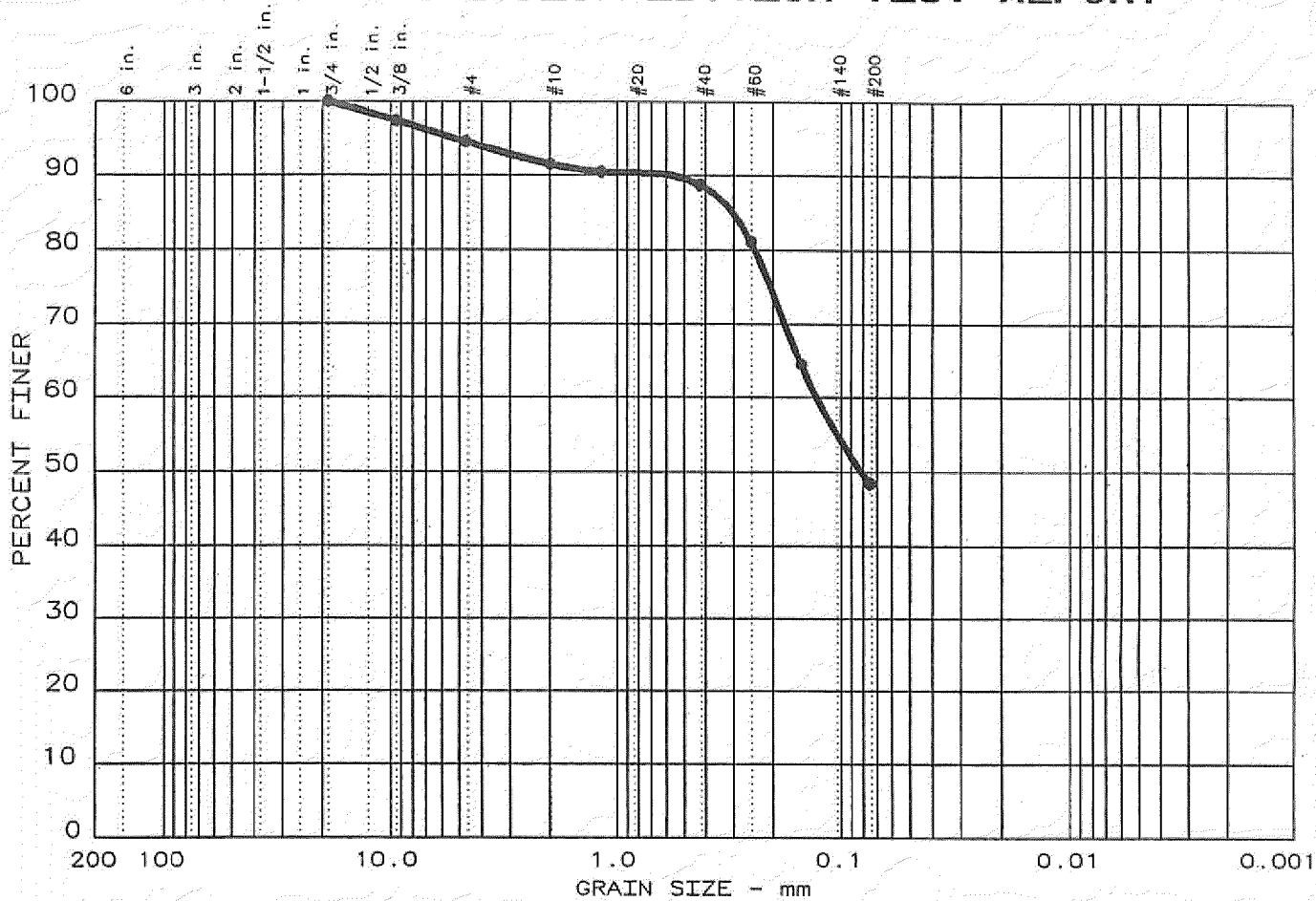
SIEVE number size	PERCENT FINER		
	●		
4	99.8		
10	99.2		
16	99.1		
40	98.9		
60	98.7		
100	98.3		
200	97.2		

Sample information:  
 ● B-13, 34-35.5 & 39-40.5'  
 Dark brown clayey silt

Remarks:  
 Methods: Particle Size:  
 ASTM D 422-63(1998);  
 % < No. 200: ASTM D1140-00  
 LL/PI: ASTM D 4318-00

<b>LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.</b>	Project No.: 3043031008.0001 Project: TVA Kingston Fossil Scrubber Stack Date: 3-20-2003 <span style="float: right;">Fig. No.: B13</span>
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# PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
● 8	0.0	5.4	46.2	48.4		SC	64	36

SIEVE inches size	PERCENT FINER	
	●	
0.75	100.0	
0.375	97.4	
<del> </del> GRAIN SIZE <del> </del>		
D <sub>60</sub>	0.127	
D <sub>30</sub>		
D <sub>10</sub>		
<del> </del> COEFFICIENTS <del> </del>		
C <sub>c</sub>		
C <sub>u</sub>		

SIEVE number size	PERCENT FINER	
	●	
4	94.6	
10	91.6	
16	90.5	
40	88.7	
60	81.1	
100	64.5	
200	48.4	

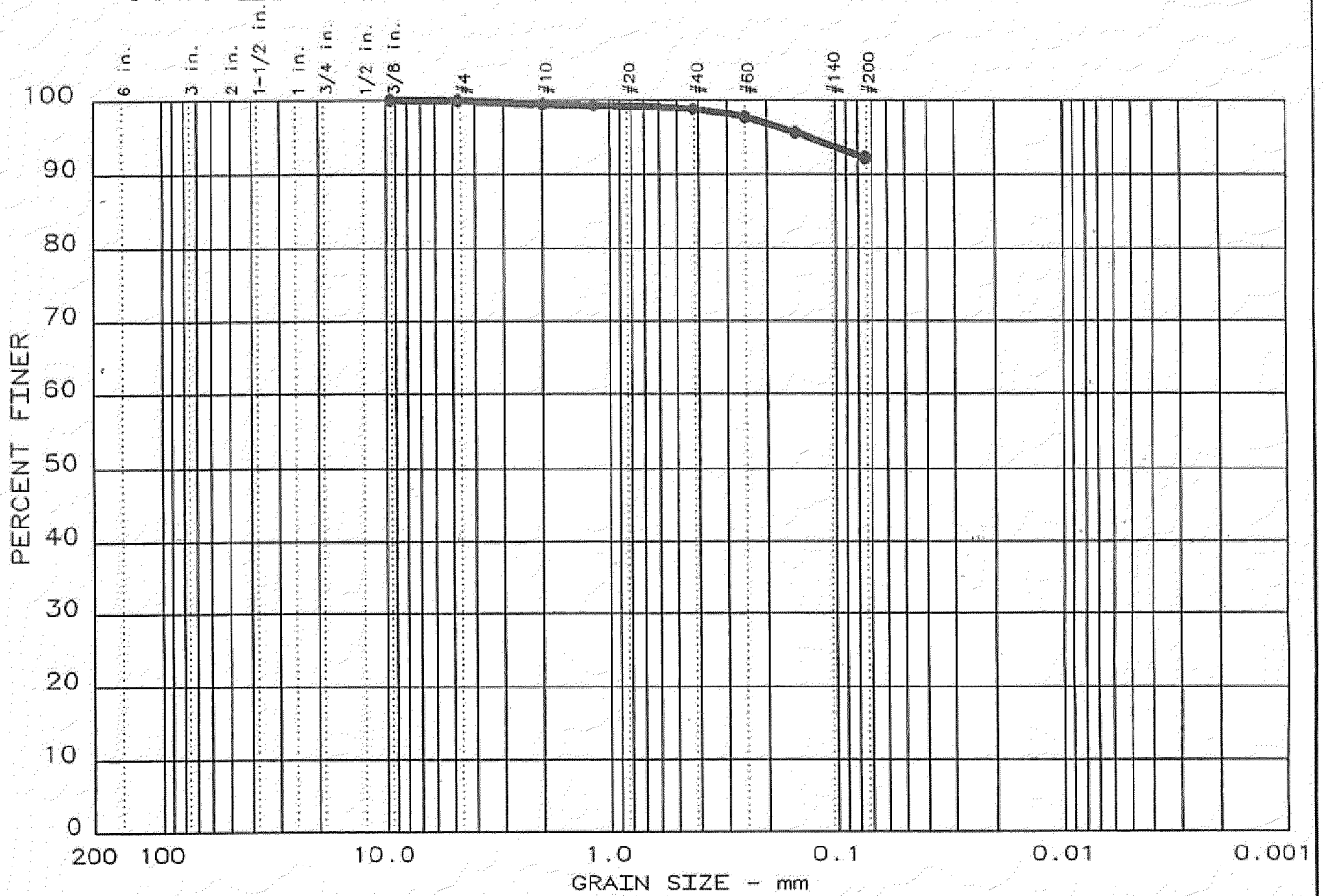
Sample information:  
 ● B-13, 24-25.5 & 29-30.5'  
 Orange brown clayey sand

Remarks:  
 Methods: Particle Size:  
 ASTM D 422-63(1998);  
 % < No. 200: ASTM D1140-00  
 LL/PI: ASTM D 4318-00

<b>LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.</b>	Project No.: 3043031008.0001 Project: TVA Kingston Fossil Scrubber Stack Date: 3-20-2003 <span style="float: right;">Fig. No.: B13</span>
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# PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
7	0.0	0.1	7.7	92.2		CH	88	52

SIEVE inches size	PERCENT FINER	
	●	
0.375	100.0	
<del>GRAIN SIZE</del>		
D <sub>60</sub>		
D <sub>30</sub>		
D <sub>10</sub>		
<del>COEFFICIENTS</del>		
C <sub>c</sub>		
C <sub>u</sub>		

SIEVE number size	PERCENT FINER	
	●	
4	99.9	
10	99.4	
16	99.3	
40	98.7	
60	97.6	
100	95.6	
200	92.2	

Sample information:  
 ● B-13, 4-5.5' & 6.5-8'  
 Orange brown silty clay

Remarks:  
 Methods: Particle Size:  
 ASTM D 422-63(1998);  
 % < No. 200: ASTM D1140-00  
 LL/PI: ASTM D 4318-00

<b>LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.</b>	Project No.: 3043031008.0001 Project: TVA Kingston Fossil Scrubber Stack Date: 3-20-2003 <span style="float: right;">Fig. No.: B13</span>
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