Prepared for

Town of Huntington
Department of Environmental Control
100 Main Street
Huntington, New York 11788

On Behalf of

Cashin Associates, P.C.
1200 Veterans Memorial Highway
Hauppauge, New York 11788

FINAL REPORT

CONSTRUCTION QUALITY ASSURANCE

HUNTINGTON/EAST NORTHPORT LANDFILL
FINAL CLOSURE SYSTEM
SUFFOLK COUNTY, NEW YORK

Prepared by

GeoSyntec Consultants
1100 Lake Hearn Drive N.E., Suite 200
Atlanta, Georgia 30342
Project Number GQ3700

JULY 1996

VOLUME V

RECEIVED
OCT 4 1996
HAZARDOUS WASTE REMEDIATION

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FINAL CLOSURE SYSTEM
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Prepared by

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VOLUME V

APPENDIX I

CONTINUED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 06 month 95 year
SOURCE: B. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-63 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1808.9	1539.7
WT. OF TARE	(grams)	19.4	15.8
WT. OF DRY SAMPLE	(grams)	1789.5	1523.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	36.2	2.0	98.0	
3/8"	9.5	93.6	5.2	94.8	
4	4.75	279.7	15.6	84.4	
10	2.0	466.5	26.1	73.9	
20	0.850	677.7	37.9	62.1	
40	0.425	1021.3	57.1	42.9	
60	0.250	1323.2	73.9	26.1	
100	0.150	1462.3	81.7	18.3	
200	0.075	1522.5	85.1	14.9	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

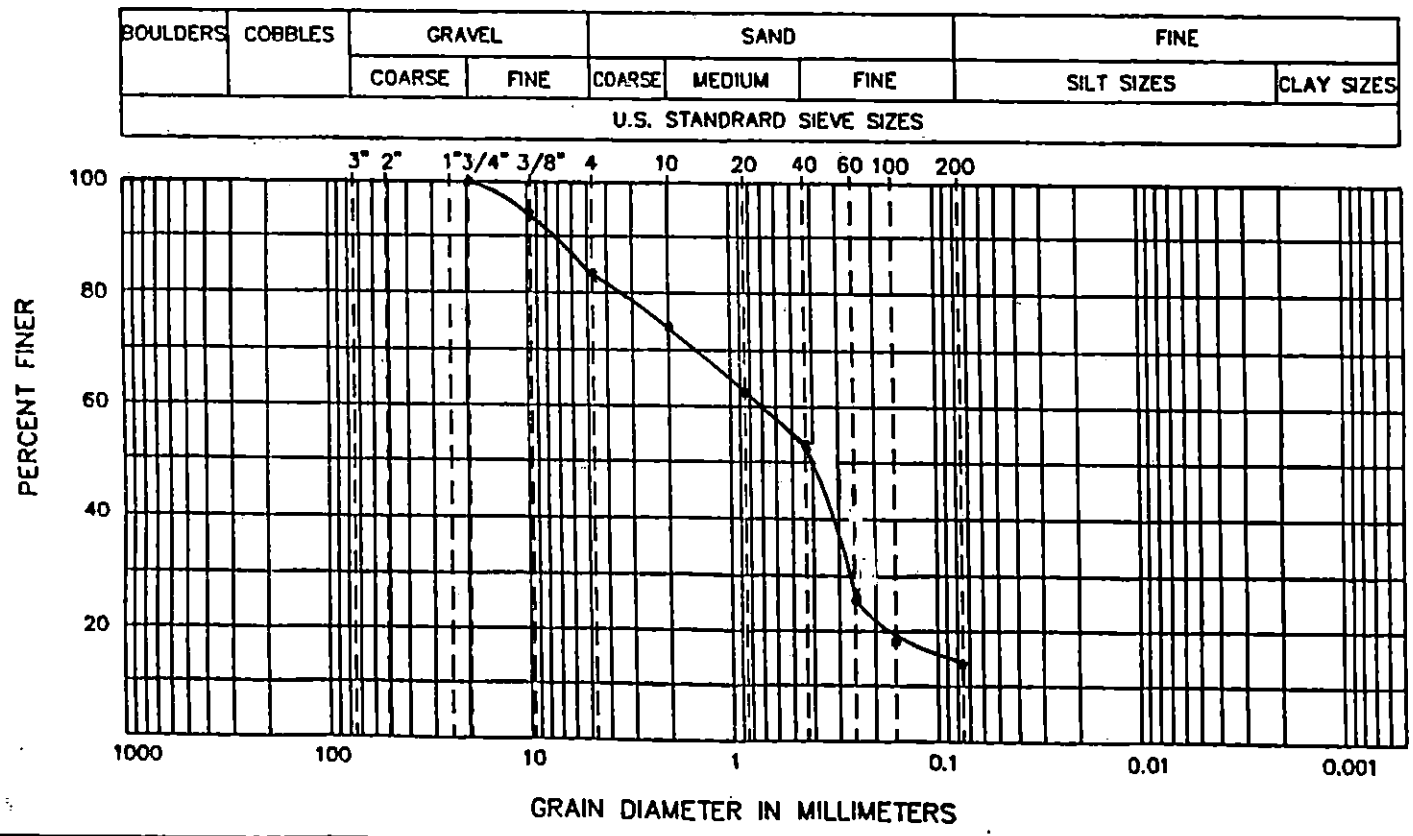
PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 29 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

SAMPLE NO.: S-63 QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	98.0
3/8-in.	94.8
NO. 4	89.4
NO. 10	73.9
NO. 20	62.1
NO. 40	42.9
NO. 60	26.1
NO. 100	18.3
NO. 200	14.9

SOIL CLASSIFICATION (ASTM D 2487): SM SILTY SAND WITH GRAVEL

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GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-63 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10570	10736	10602		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4725	4891	4757		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	137.0	141.8	138.0		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	130.4	131.9	125.9		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.1	8.2		
G	WT. OF WET SOIL & TARE	(grams)	578.9	506.2	527.0		
H	WT. OF DRY SOIL & TARE	(grams)	551.3	471.5	481.6		
I	WT. OF WATER = G - H	(grams)	27.6	34.7	45.4		
J	WT. DRY SOIL = H - F	(grams)	543.2	463.4	473.4		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.1%	7.5%	9.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

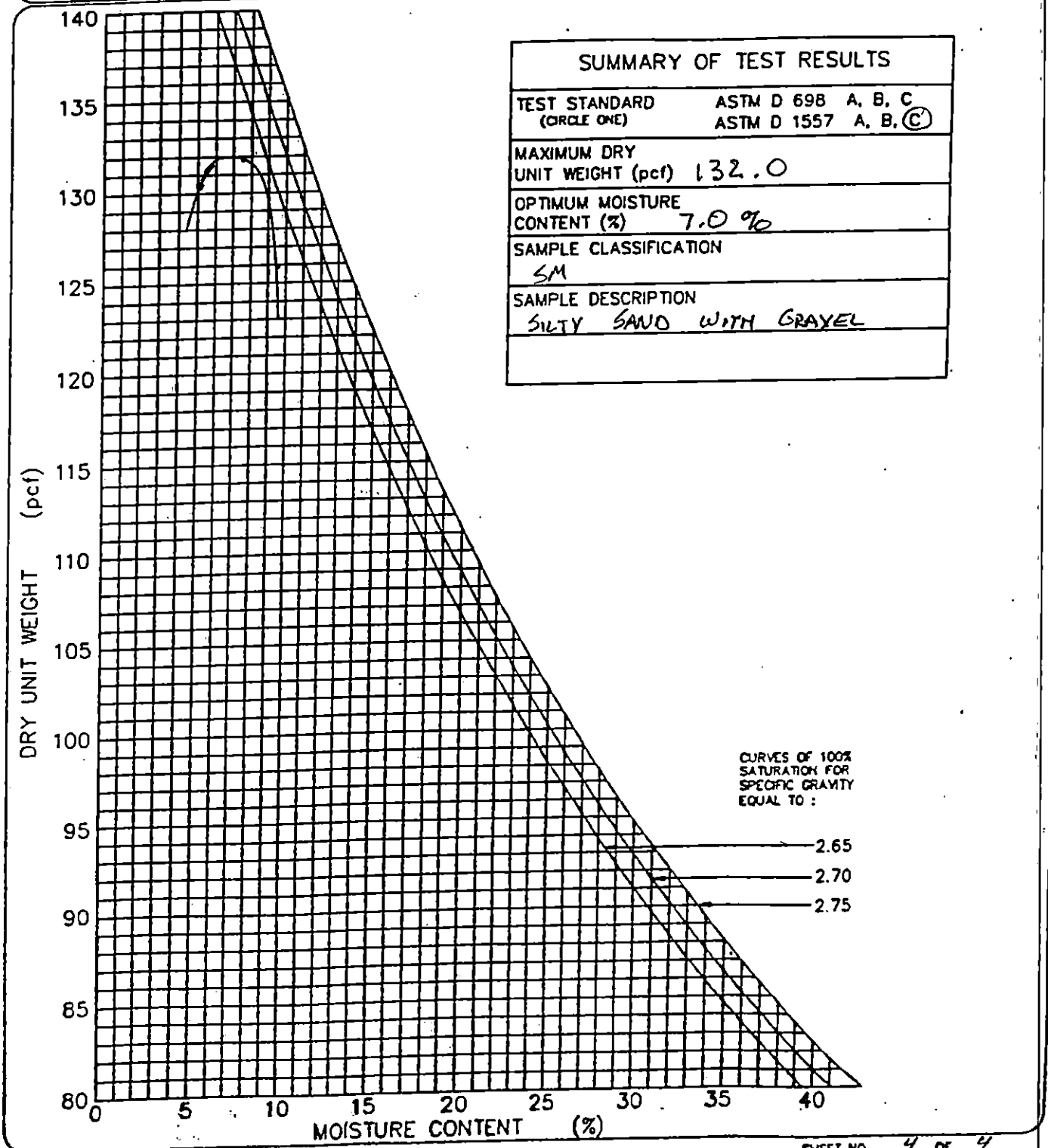
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-63 QA ID: D/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	132.0
OPTIMUM MOISTURE CONTENT (%)	7.0 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 06 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S64 QA ID: D/I

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1834.9	1573.9
WT. OF TARE	(grams)	21.1	16.0
WT. OF DRY SAMPLE	(grams)	1813.8	1557.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	61.4	3.4	96.6	
3/8"	9.5	103.2	5.7	94.3	
4	4.75	255.5	14.1	85.9	
10	2.0	427.8	23.6	76.4	
20	0.850	641.5	35.4	64.6	
40	0.425	1007.0	55.5	44.5	
60	0.250	1331.8	73.4	26.6	
100	0.150	1484.7	81.9	18.1	
200	0.075	1553.4	85.6	14.4	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

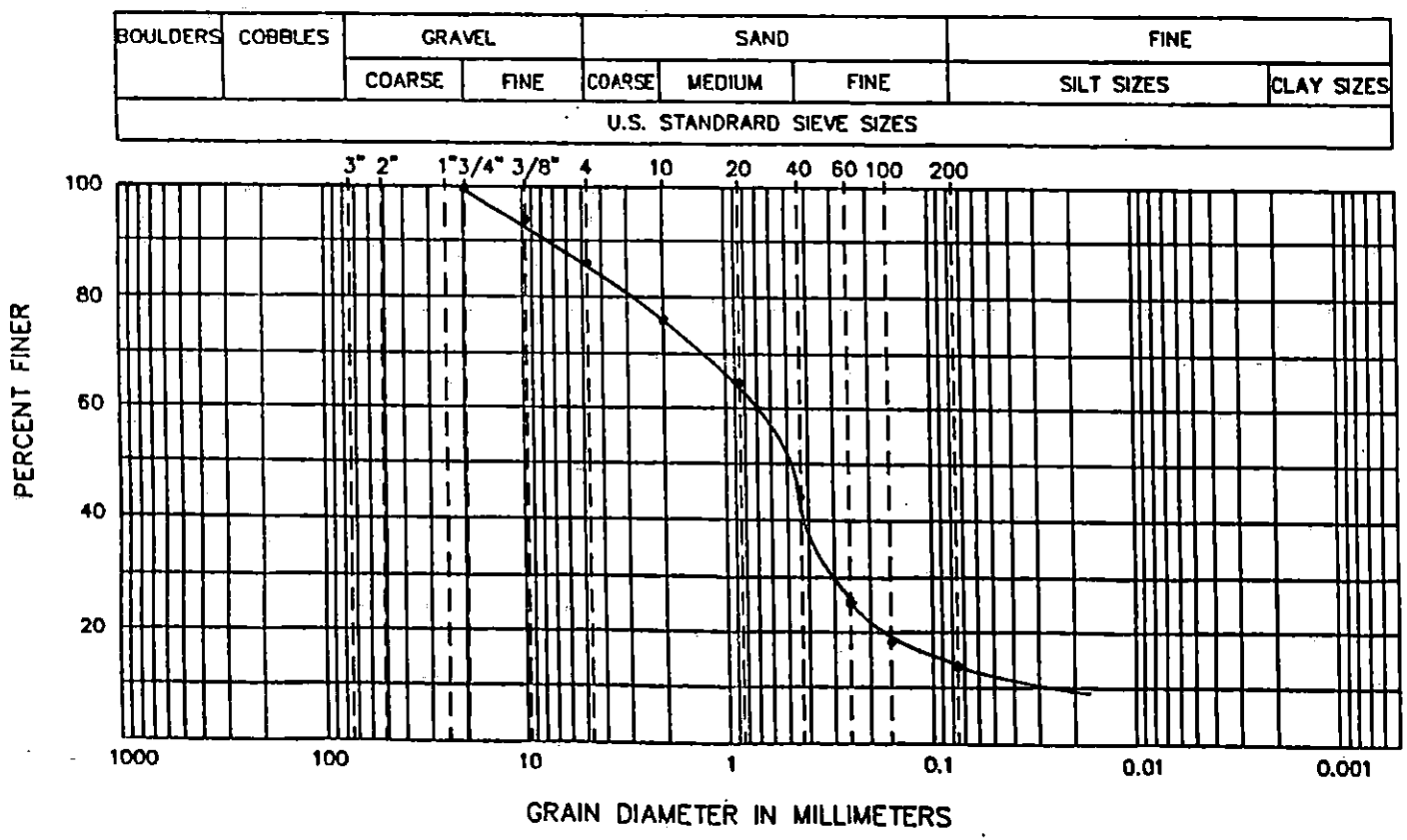
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-64 QA ID: DJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.6
3/8-in.	94.3
NO. 4	85.9
NO. 10	76.4
NO. 20	64.6
NO. 40	44.5
NO. 60	26.6
NO. 100	18.1
NO. 200	14.4

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 30 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-64 — QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10551	10668	10582		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4706	4823	4737		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	136.5	139.9	137.4		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	129.6	129.9	125.6		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.8	7.9	8.1		
G	WT. OF WET SOIL & TARE	(grams)	494.6	472.2	452.3		
H	WT. OF DRY SOIL & TARE	(grams)	469.9	439.1	414.0		
I	WT. OF WATER = G - H	(grams)	24.7	33.1	38.3		
J	WT. DRY SOIL = H - F	(grams)	462.1	431.2	405.9		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3 %	7.7 %	9.4 %		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

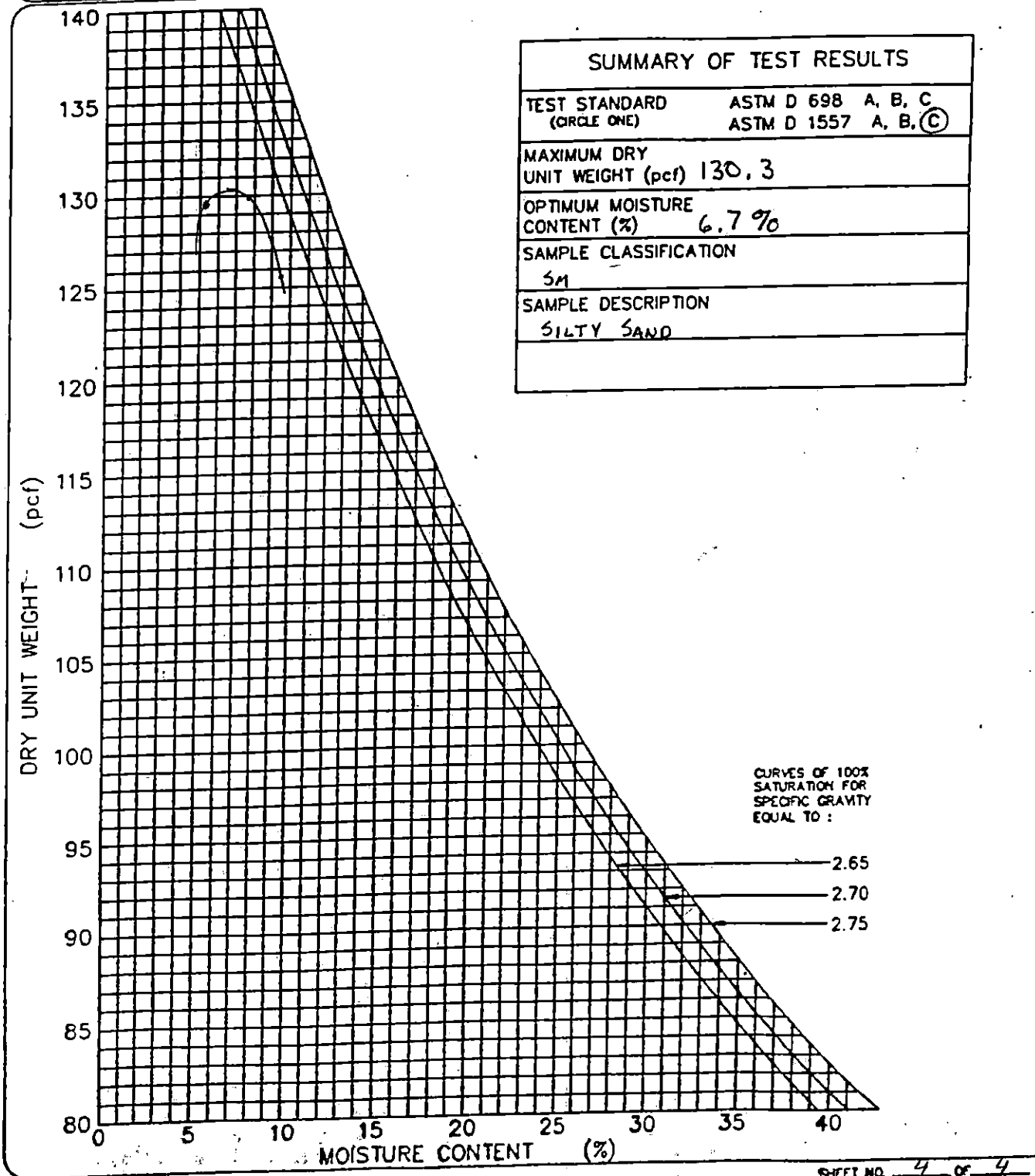
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SEL. SAMPLE NO.: S-64 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.3
OPTIMUM MOISTURE CONTENT (%)	6.7 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND



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GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 03 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-65 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1779.7	1414.3
WT. OF TARE	(grams)	19.1	18.0
WT. OF DRY SAMPLE	(grams)	1760.6	1396.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	53.9	3.1	96.9	
3/8"	9.5	126.5	7.2	92.8	
4	4.75	283.7	16.1	83.9	
10	2.0	441.6	25.1	74.9	
20	0.850	627.7	35.7	64.3	
40	0.425	915.0	52.0	48.0	
60	0.250	1169.9	66.4	33.6	
100	0.150	1313.1	74.6	25.4	
200	0.075	1393.2	79.1	20.9	

%FINER = 100 − Σ% RETAINED

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GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

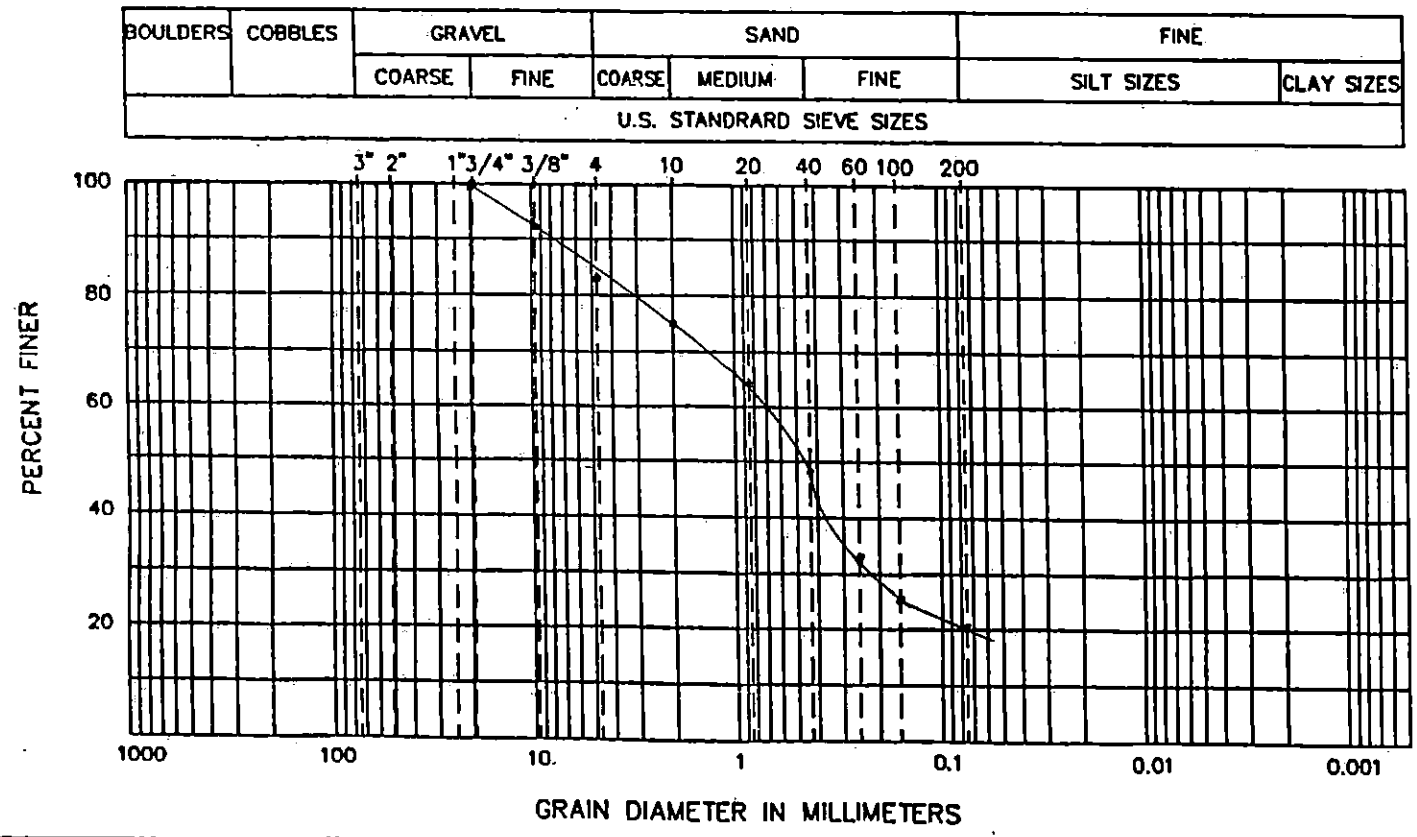
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 03 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-65 QA ID: 2/R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.9
3/8-in.	92.8
NO. 4	83.9
NO. 10	74.9
NO. 20	64.3
NO. 40	48.0
NO. 60	33.6
NO. 100	25.4
NO. 200	20.9

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 03 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-65 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10607	10740	10572		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4762	4895	4727		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	138.1	142.0	137.1		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	131.4	132.5	125.7		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.1		
G	WT. OF WET SOIL & TARE	(grams)	508.1	426.8	388.1		
H	WT. OF DRY SOIL & TARE	(grams)	484.0	398.5	356.3		
I	WT. OF WATER = G - H	(grams)	24.1	28.3	31.8		
J	WT. DRY SOIL = H - F	(grams)	476.1	390.5	348.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.1 %	7.2 %	9.1 %		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

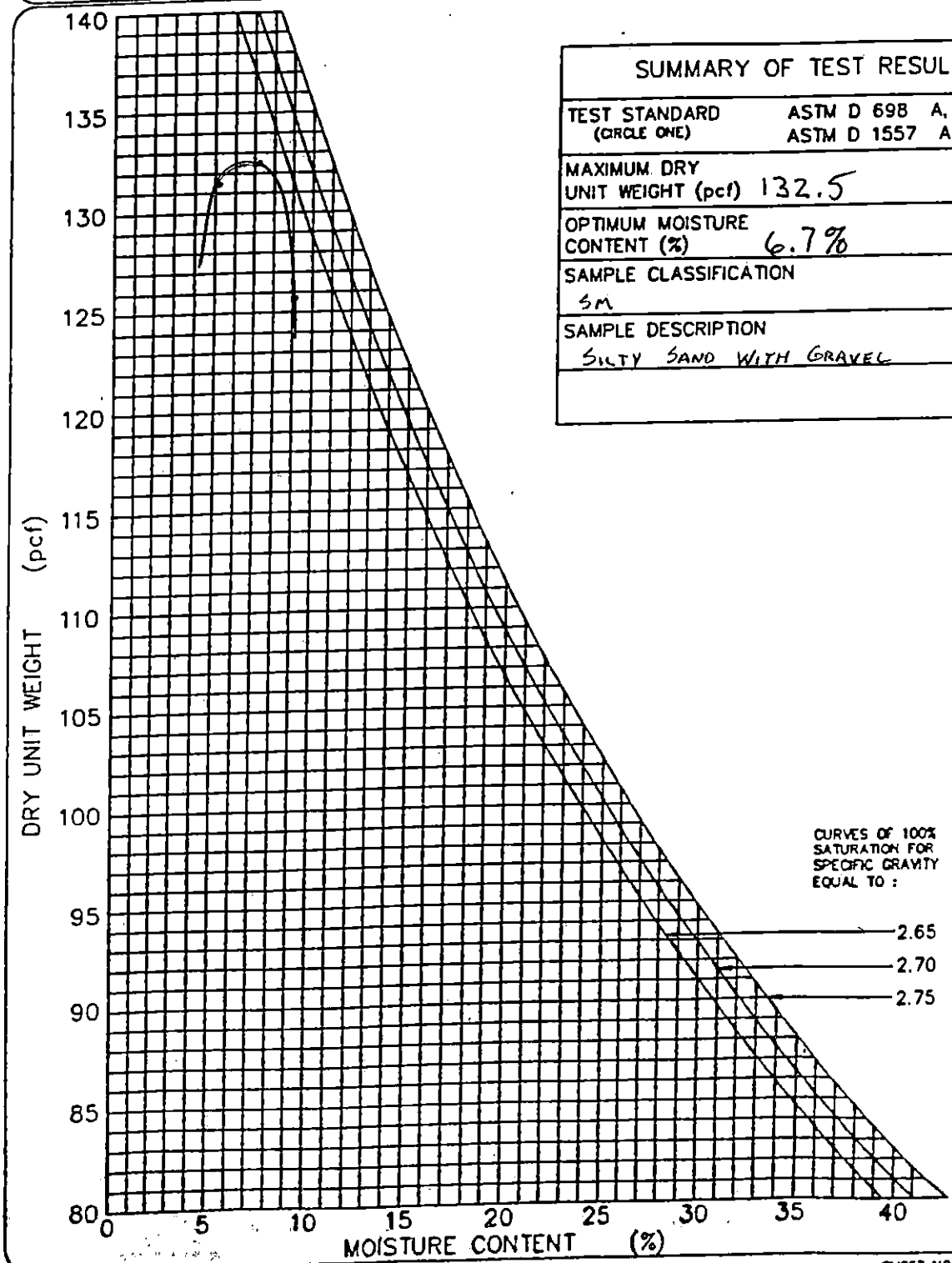
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 03 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-65 OA ID: 718

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	132.5
OPTIMUM MOISTURE CONTENT (%)	6.7%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 05 day 07 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-66 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1703.5	1426.8
WT. OF TARE	(grams)	18.1	17.8
WT. OF DRY SAMPLE	(grams)	1685.4	1409.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	43.5	2.6	97.4	
3/8"	9.5	83.1	4.9	95.1	
4	4.75	219.6	13.0	87.0	
10	2.0	366.8	21.8	78.2	
20	0.850	559.0	33.2	66.8	
40	0.425	907.4	53.8	46.2	
60	0.250	1210.3	71.8	28.2	
100	0.150	1346.6	79.9	20.1	
200	0.075	1405.3	83.3	16.7	

%FINER = 100 − Σ % RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

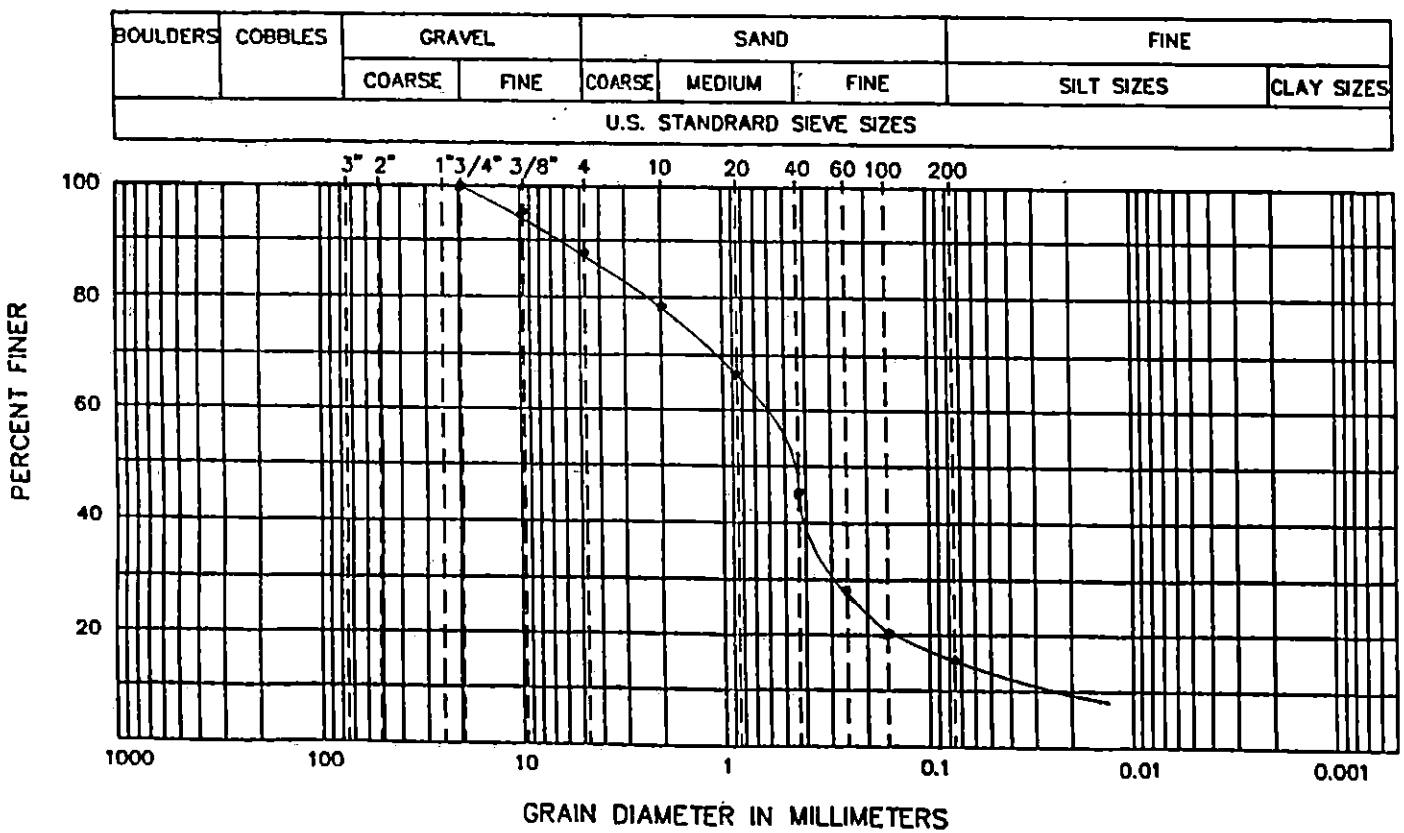
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 05 day 07 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-66 — QA ID: JJR



CURVE COEFFICIENTS

(C_u) . . . . . .

(C_c) . . . . . .

ATTERBERG LIMITS

(LL) . . . . . .

(PL) . . . . . .

(PI) . . . . . .

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.4
3/8-in.	95.1
NO. 4	87.0
NO. 10	78.2
NO. 20	66.8
NO. 40	46.2
NO. 60	28.2
NO. 100	20.1
NO. 200	16.7

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 05 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-66 QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10548	10661	10619		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4703	4816	4774		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	136.4	139.7	138.5		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.7	129.4	125.9		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.1	8.2		
G	WT. OF WET SOIL & TARE	(grams)	499.3	563.7	466.7		
H	WT. OF DRY SOIL & TARE	(grams)	471.8	524.7	425.9		
I	WT. OF WATER = G - H	(grams)	27.5	39.0	40.8		
J	WT. DRY SOIL = H - F	(grams)	463.7	516.6	417.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.0 %	8.0 %	10.0 %		

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TOWN OF HUNTINGTON

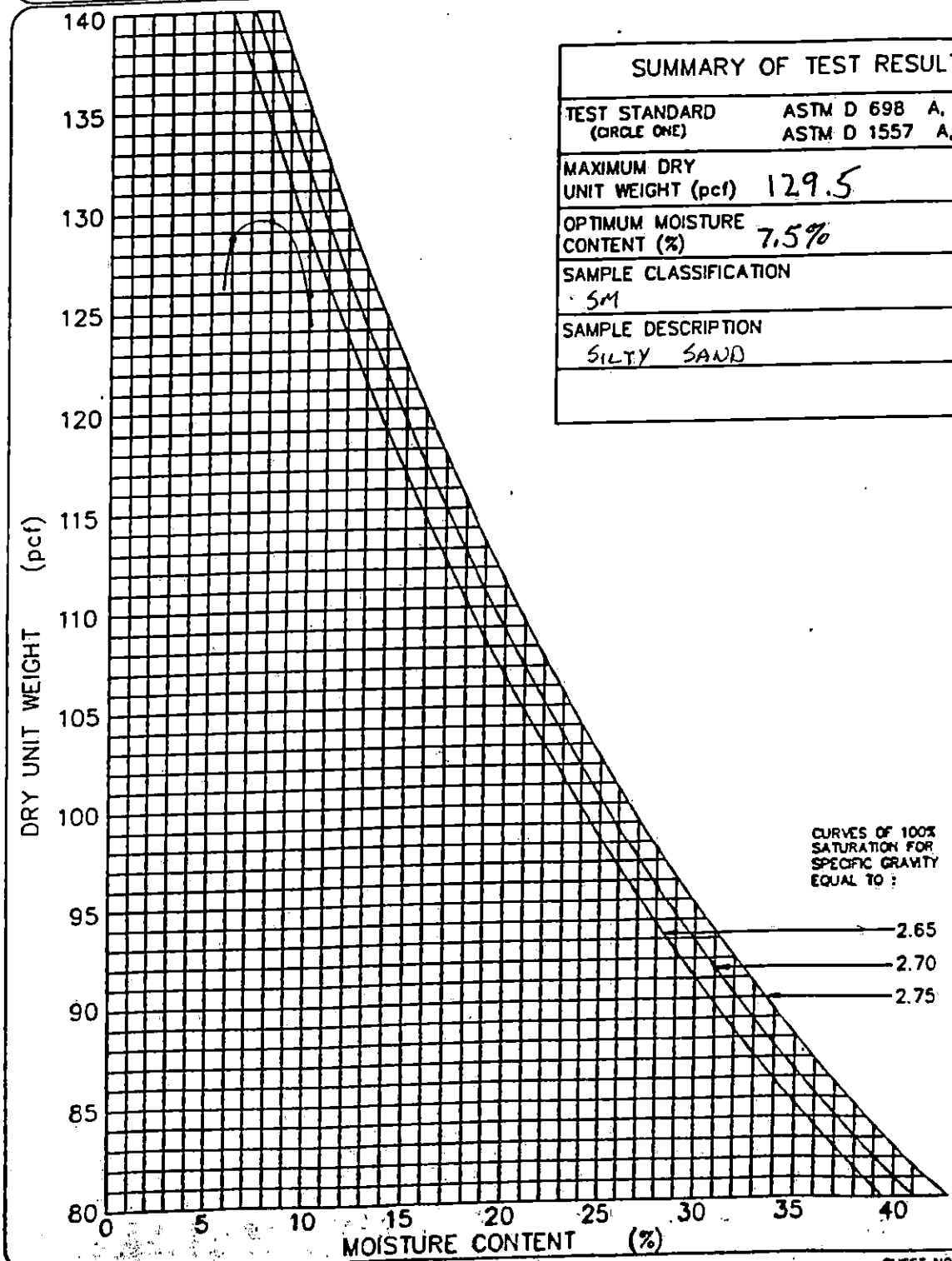
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 05 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-66 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.5
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 07 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-67 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1746.0	1496.3
WT. OF TARE	(grams)	21.2	16.1
WT. OF DRY SAMPLE	(grams)	1724.8	1480.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	40.6	2.4	97.6	
3/8"	9.5	109.7	6.4	93.6	
4	4.75	281.9	16.3	83.7	
10	2.0	423.4	24.5	75.5	
20	0.850	603.1	35.0	65.0	
40	0.425	930.0	53.9	46.1	
60	0.250	1258.6	73.0	27.0	
100	0.150	1414.0	82.0	18.0	
200	0.075	1476.7	85.6	14.4	

%FINER = 100 − Σ % RETAINED

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TOWN OF HUNTINGTON

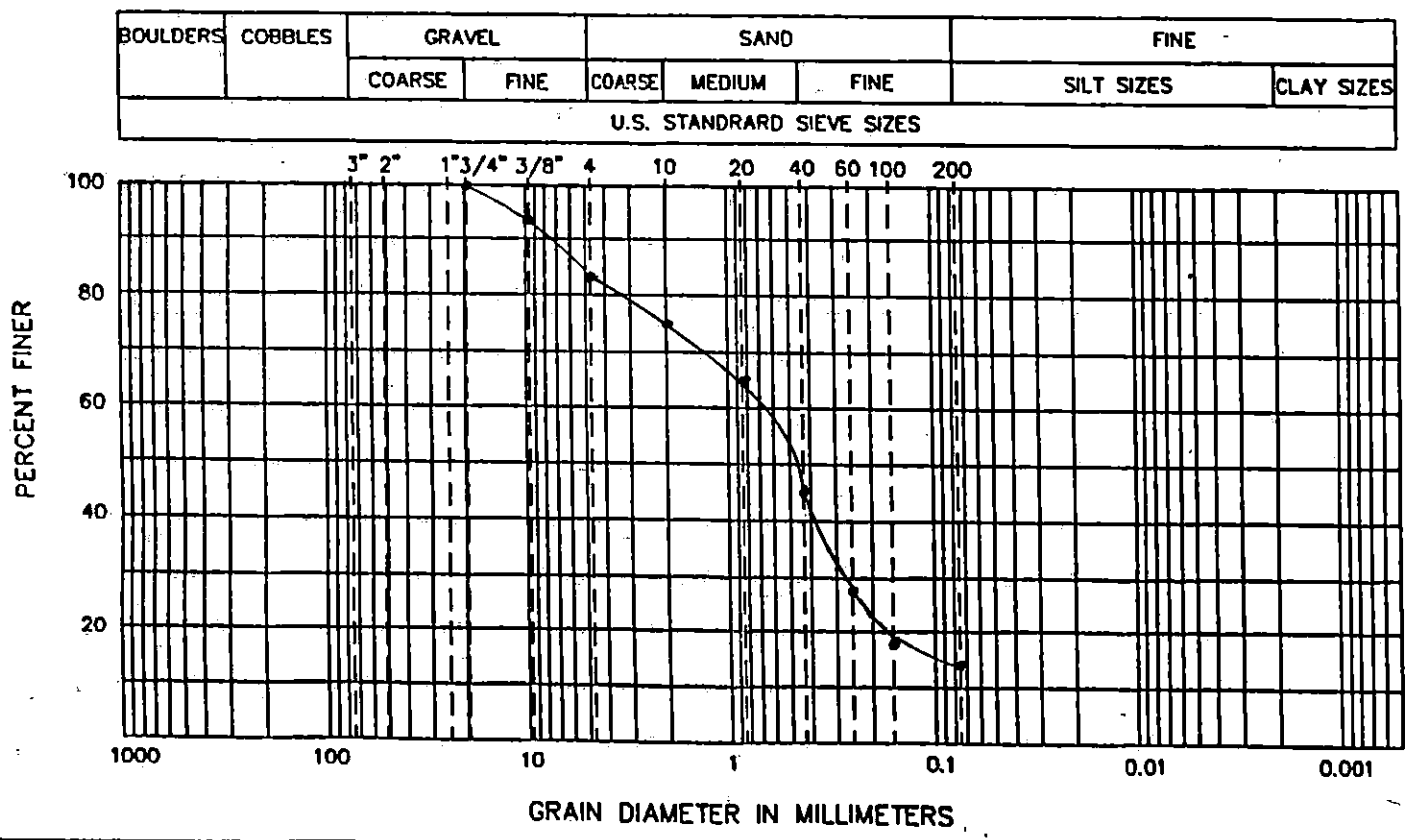
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-67 QA ID: 717



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.6
3/8-in.	93.6
NO. 4	83.7
NO. 10	75.5
NO. 20	65.0
NO. 40	46.1
NO. 60	27.0
NO. 100	18.0
NO. 200	14.4

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 06 day 07 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-67 — QA ID: RAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10448	10669	10604		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4603	4824	4759		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.5	139.9	138.0		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.4	129.8	125.3		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	7.9	8.1		
G	WT. OF WET SOIL & TARE	(grams)	464.6	486.7	556.9		
H	WT. OF DRY SOIL & TARE	(grams)	440.5	452.1	506.5		
I	WT. OF WATER = G - H	(grams)	24.1	34.6	50.4		
J	WT. DRY SOIL = H - F	(grams)	432.6	444.2	498.4		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.6%	7.8%	10.1 %		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

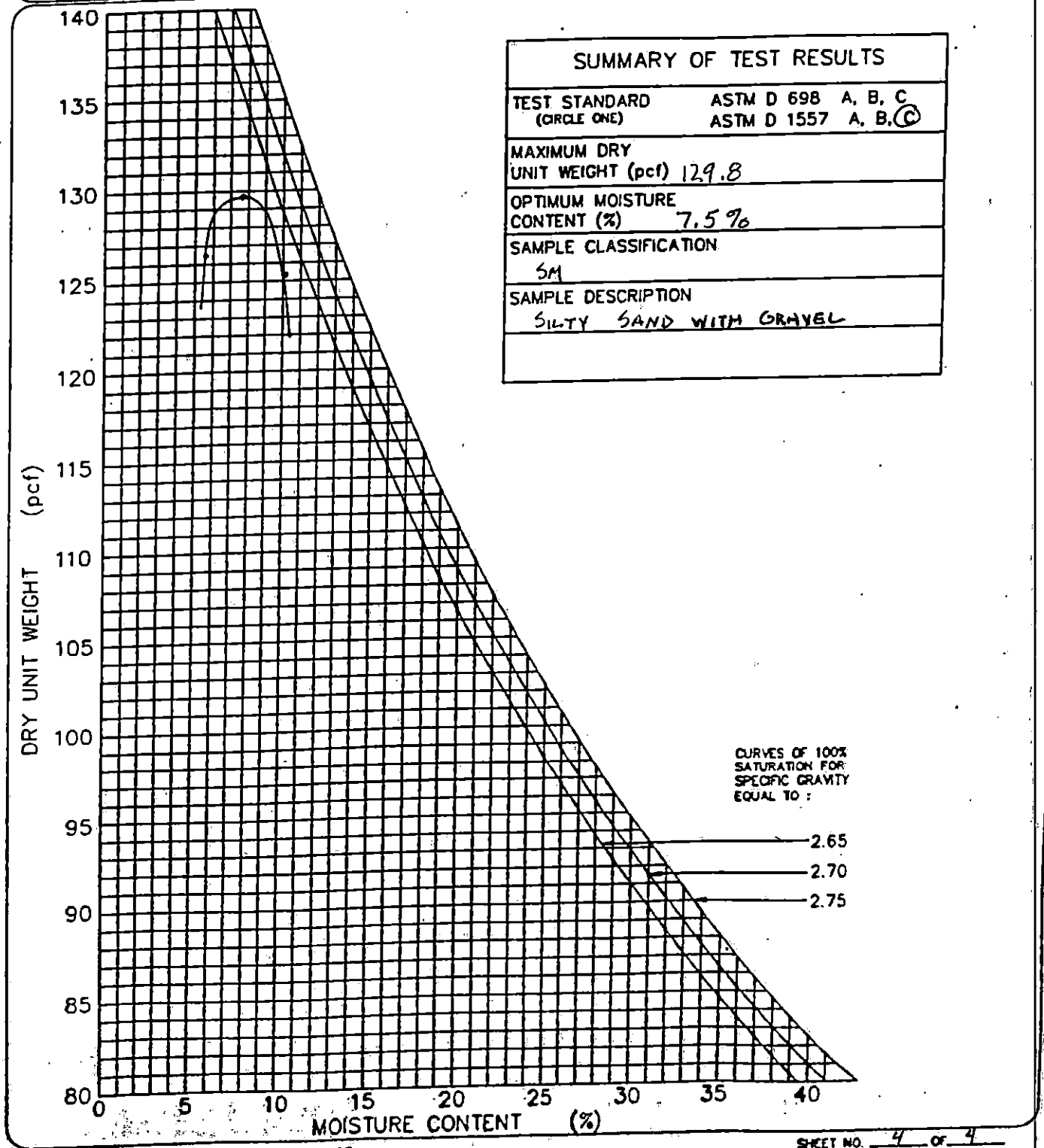
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT. SELECT SAMPLE NO.: S-67 QA ID: D/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.8
OPTIMUM MOISTURE CONTENT (%)	7.5 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 07 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-68 QA ID: MR

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1846.1	1589.6
WT. OF TARE	(grams)	19.3	15.8
WT. OF DRY SAMPLE	(grams)	1826.8	1573.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	63.1	3.5	96.5	
3/8"	9.5	110.7	6.1	93.9	
4	4.75	289.6	15.9	84.1	
10	2.0	451.7	24.7	75.3	
20	0.850	646.0	35.4	64.6	
40	0.425	986.9	54.0	46.0	
60	0.250	1325.0	72.5	27.5	
100	0.150	1491.8	81.7	18.3	
200	0.075	1564.1	85.6	14.4	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

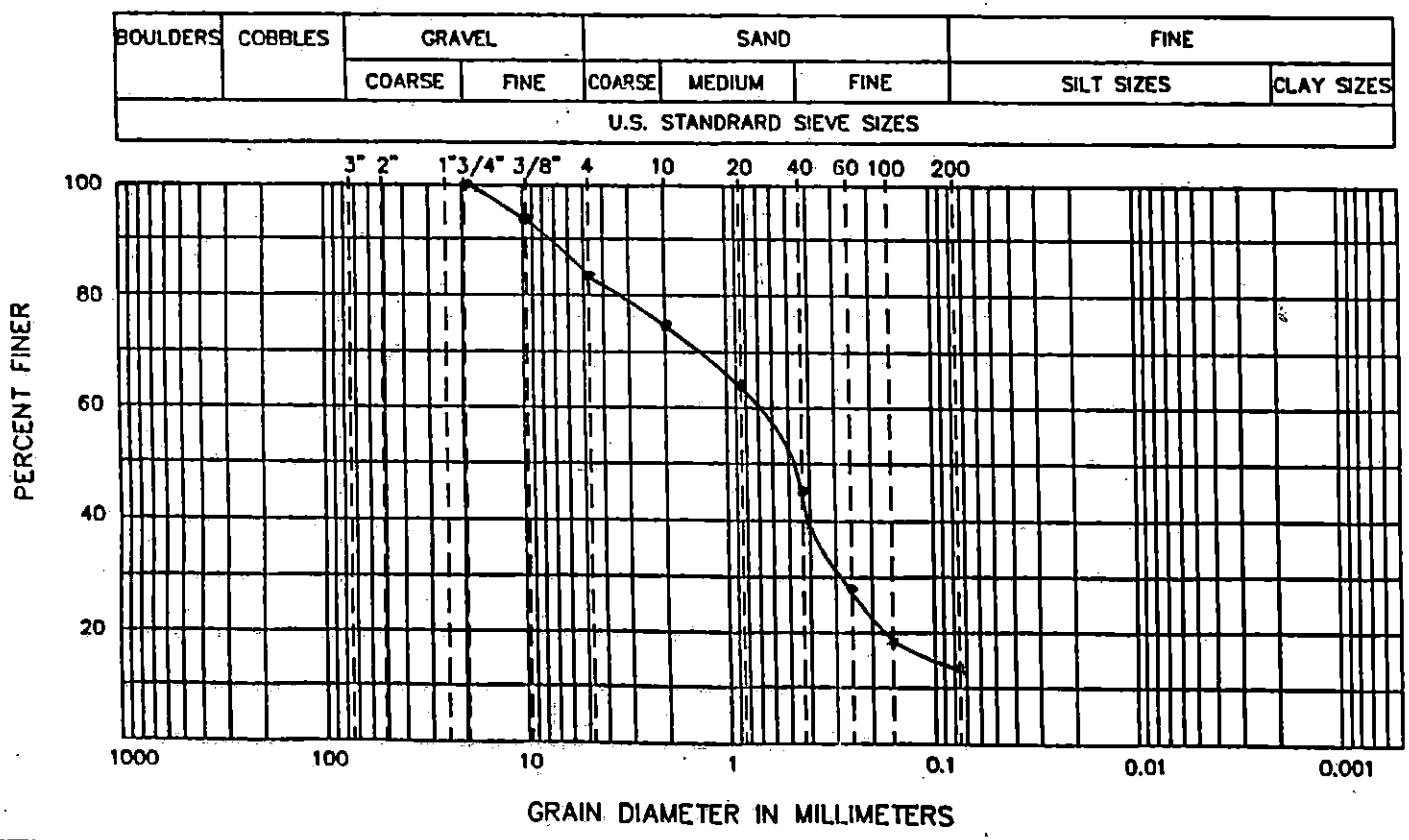
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-68 QA ID: PJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.5
3/8-in.	93.9
NO. 4	84.1
NO. 10	75.3
NO. 20	64.6
NO. 40	46.0
NO. 60	27.5
NO. 100	18.3
NO. 200	14.4

SOIL CLASSIFICATION (ASTM D 2487): SM- SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-68 QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10492	10655	10581		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4647	4810	4763		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	134.8	139.5	137.3		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.3	129.3	129.7		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL. THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.2	7.9	8.2		
G	WT. OF WET SOIL & TARE	(grams)	499.2	502.2	520.7		
H	WT. OF DRY SOIL & TARE	(grams)	471.8	465.8	473.7		
I	WT. OF WATER = G - H	(grams)	27.4	36.4	47.0		
J	WT. DRY SOIL = H - F	(grams)	463.6	457.9	465.5		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.9%	7.9%	10.1%		

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TOWN OF HUNTINGTON

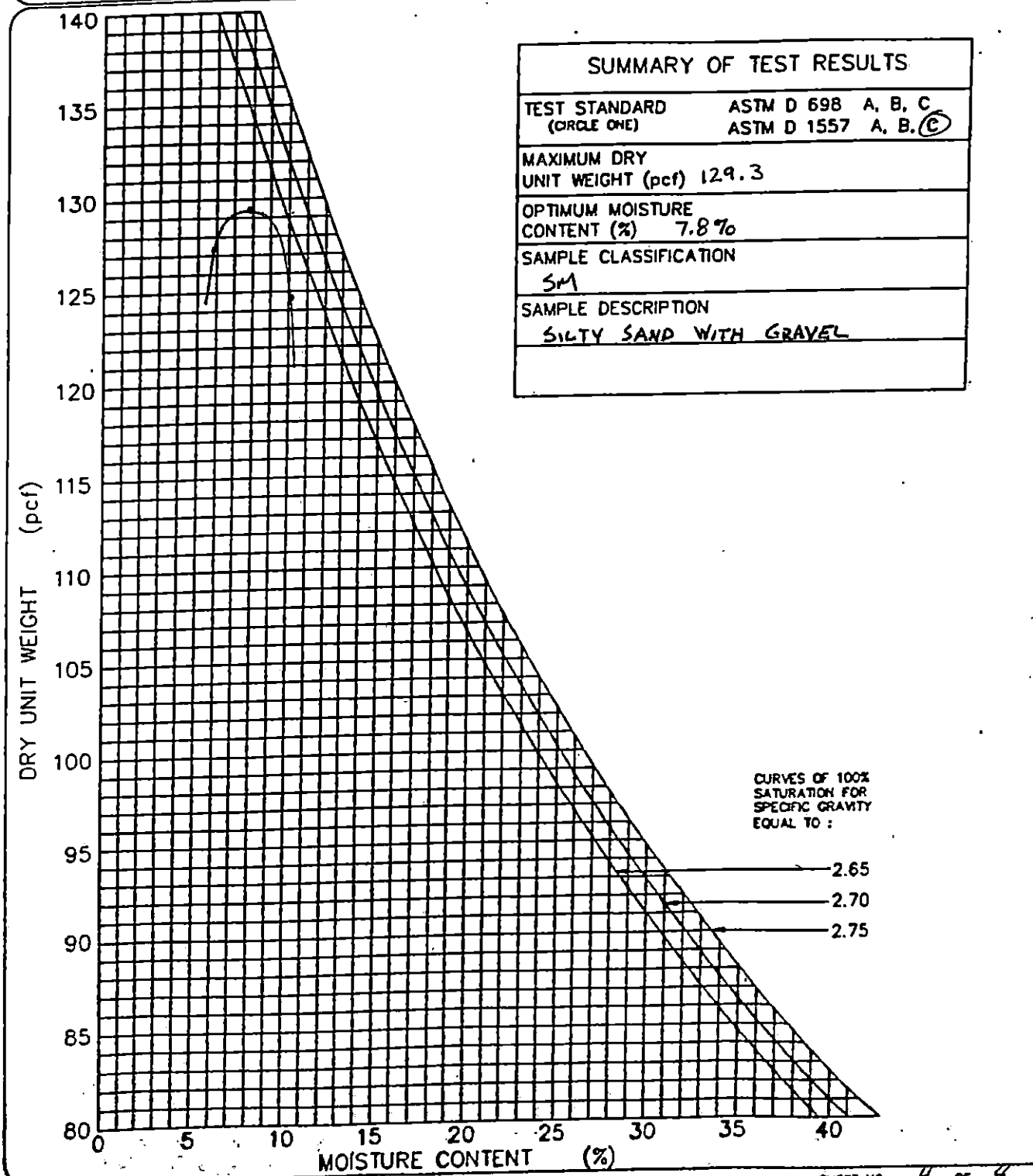
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-68 OA ID: D/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.3
OPTIMUM MOISTURE CONTENT (%)	7.8%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 07 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-69 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1804.2	1563.2
WT. OF TARE	(grams)	20.3	15.9
WT. OF DRY SAMPLE	(grams)	1783.9	1547.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	42.7	2.4	97.6	
3/8"	9.5	119.2	6.7	93.3	
4	4.75	316.5	17.7	82.3	
10	2.0	513.0	28.8	71.2	
20	0.850	748.0	41.9	58.1	
40	0.425	1110.1	62.2	37.8	
60	0.250	1382.6	77.5	22.5	
100	0.150	1492.5	83.7	16.3	
200	0.075	1544.6	86.6	13.4	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

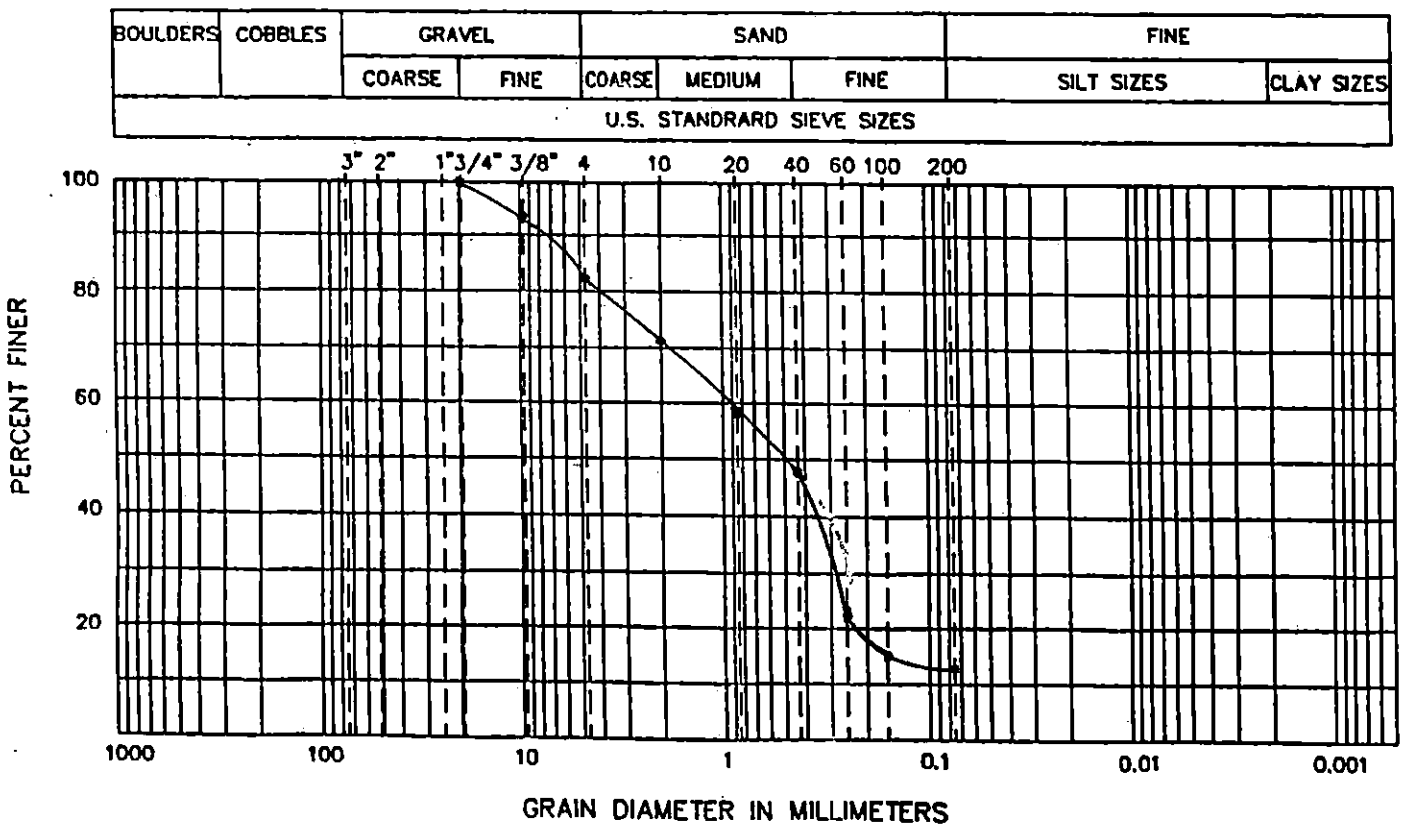
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT. SAMPLE NO.: S-69 QA ID: 21R



CURVE COEFFICIENTS

(C_u) . . . . . .

(C_c) . . . . . .

ATTERBERG LIMITS

(LL) . . . . . .

(PL) . . . . . .

(PI) . . . . . .

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.6
3/8-in.	93.3
NO. 4	82.3
NO. 10	71.2
NO. 20	58.1
NO. 40	37.8
NO. 60	22.5
NO. 100	16.3
NO. 200	12.4

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-69 QA ID: 71R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20%
AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10587	10650	10595		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4742	4805	4750		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	137.5	139.3	137.8		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	129.1	129.6	125.0		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.1		
G	WT. OF WET SOIL & TARE	(grams)	538.2	549.6	515.6		
H	WT. OF DRY SOIL & TARE	(grams)	506.0	511.9	468.5		
I	WT. OF WATER = G - H	(grams)	32.2	37.7	47.1		
J	WT. DRY SOIL = H - F	(grams)	498.0	503.8	460.4		
K	MOISTURE CONTENT = (I/J) X 100	(%)	6.5%	7.5%	10.2%		

GeoSyntec Consultants

TOWN OF HUNTINGTON

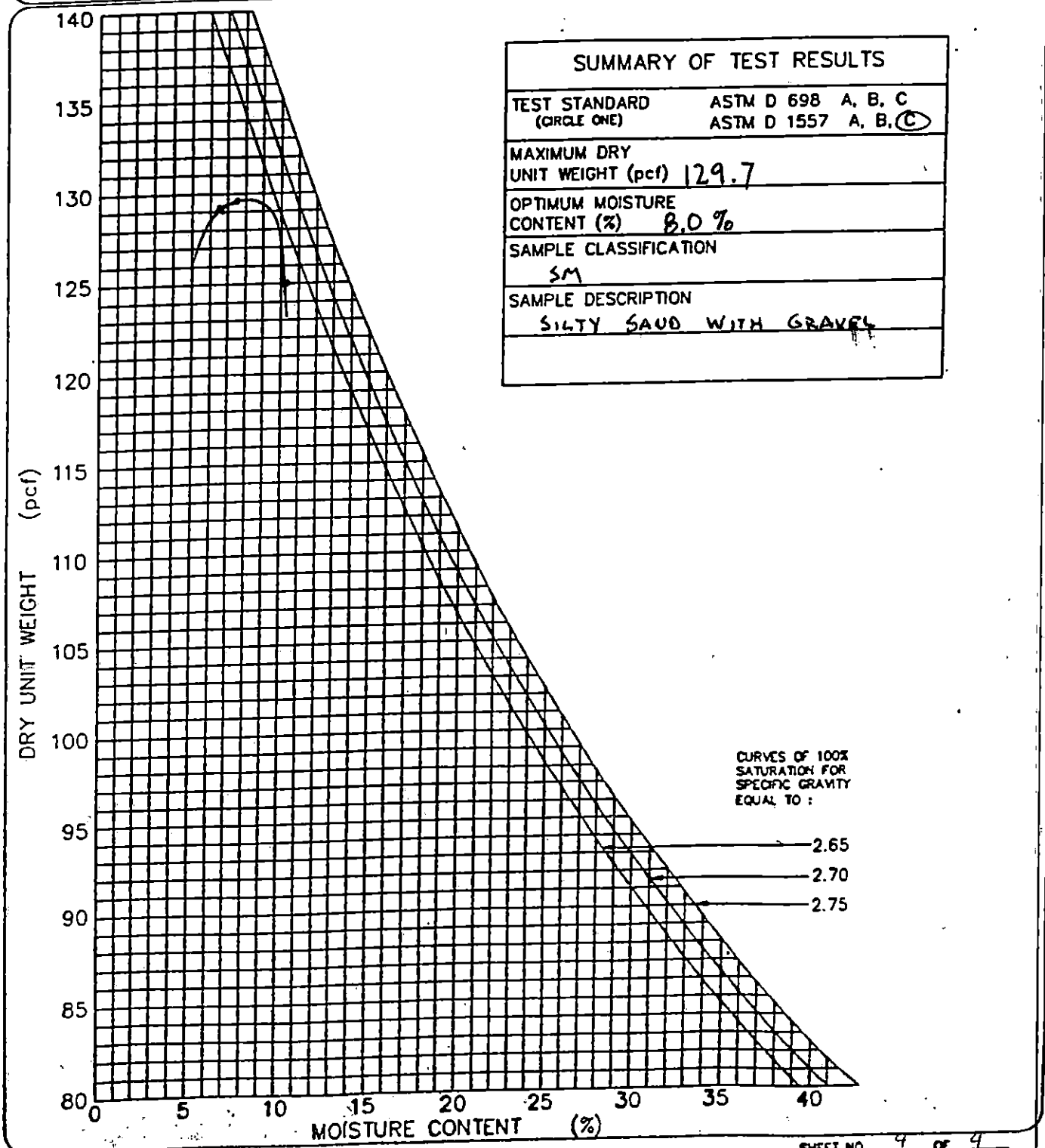
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT. SELECT SAMPLE NO.: S-69 QA ID: D18



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.7
OPTIMUM MOISTURE CONTENT (%)	8.0 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 07 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-70 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1952.3	1696.8
WT. OF TARE	(grams)	19.5	15.8
WT. OF DRY SAMPLE	(grams)	1932.8	1681.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	72.4	3.7	96.3	
3/8"	9.5	131.6	6.8	93.2	
4	4.75	321.8	16.6	83.4	
10	2.0	534.3	27.6	72.4	
20	0.850	793.0	41.0	59.0	
40	0.425	1194.9	61.8	38.2	
60	0.250	1503.6	77.8	22.2	
100	0.150	1625.0	84.1	15.9	
200	0.075	1679.5	86.9	13.1	

%FINER = 100 - Σ% RETAINED

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TOWN OF HUNTINGTON

PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

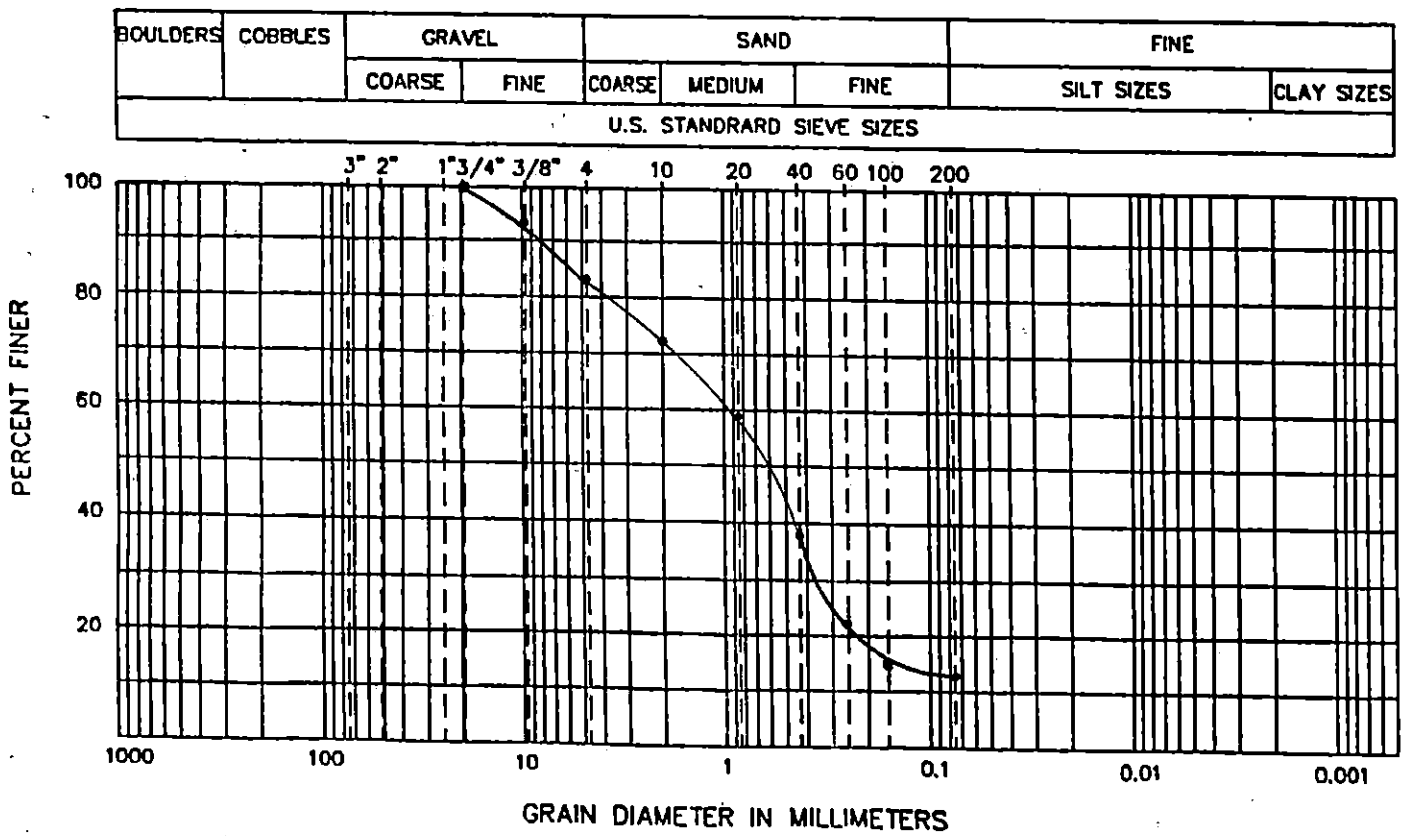
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 11 day 07 month 95 year

SAMPLE NO.: S-70 QA ID: DJR



CURVE COEFFICIENTS

(C_u) . . . . . .

(C_c) . . . . . .

ATTERBERG LIMITS

(LL) . . . . . .

(PL) . . . . . .

(PI) . . . . . .

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.3
3/8-in.	93.2
NO. 4	83.4
NO. 10	72.4
NO. 20	59.0
NO. 40	38.2
NO. 60	22.2
NO. 100	15.9
NO. 200	13.1

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 11 day 07 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-70 — QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10535	10640	10562		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4690	4795	4717		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	136.0	139.0	136.8		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.0	129.5	125.0		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.0	8.1		
G	WT. OF WET SOIL & TARE	(grams)	570.9	533.6	558.3		
H	WT. OF DRY SOIL & TARE	(grams)	542.0	497.9	511.2		
I	WT. OF WATER = G - H	(grams)	28.9	35.7	47.1		
J	WT. DRY SOIL = H - F	(grams)	533.9	489.9	503.1		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.4%	7.3%	9.4%		

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

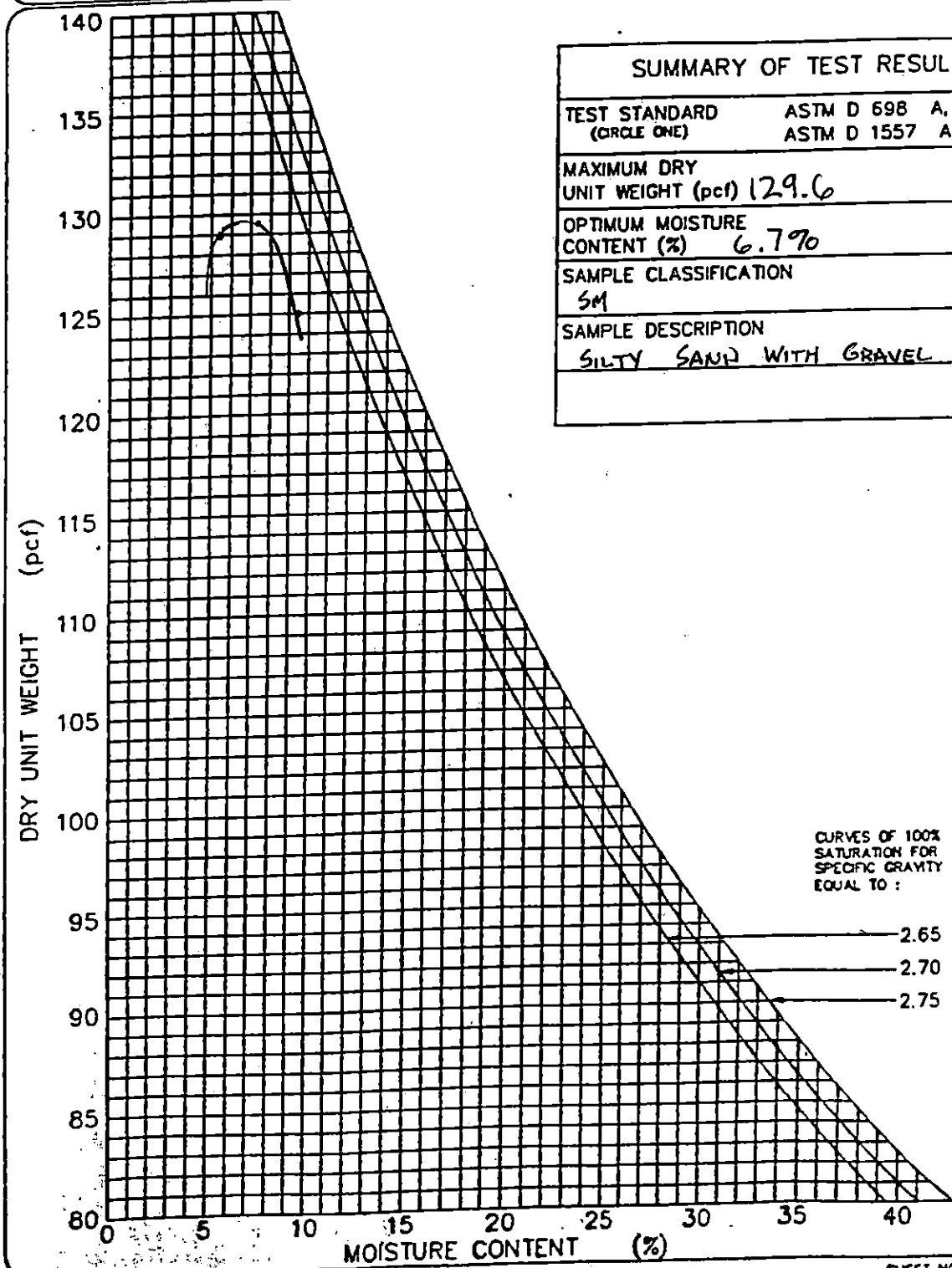
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT SELECT SAMPLE NO.: S-70 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.6
OPTIMUM MOISTURE CONTENT (%)	6.7%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 07 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-71 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1742.8	1502.3
WT. OF TARE	(grams)	20.3	16.0
WT. OF DRY SAMPLE	(grams)	1722.5	1486.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	72.6	4.2	95.8	
3/8"	9.5	153.0	8.9	91.1	
4	4.75	364.7	21.2	78.8	
10	2.0	556.8	32.3	67.7	
20	0.850	764.3	44.4	55.6	
40	0.425	1077.8	62.6	37.4	
60	0.250	1322.7	76.8	23.2	
100	0.150	1428.5	82.9	17.1	
200	0.075	1483.7	86.1	13.9	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

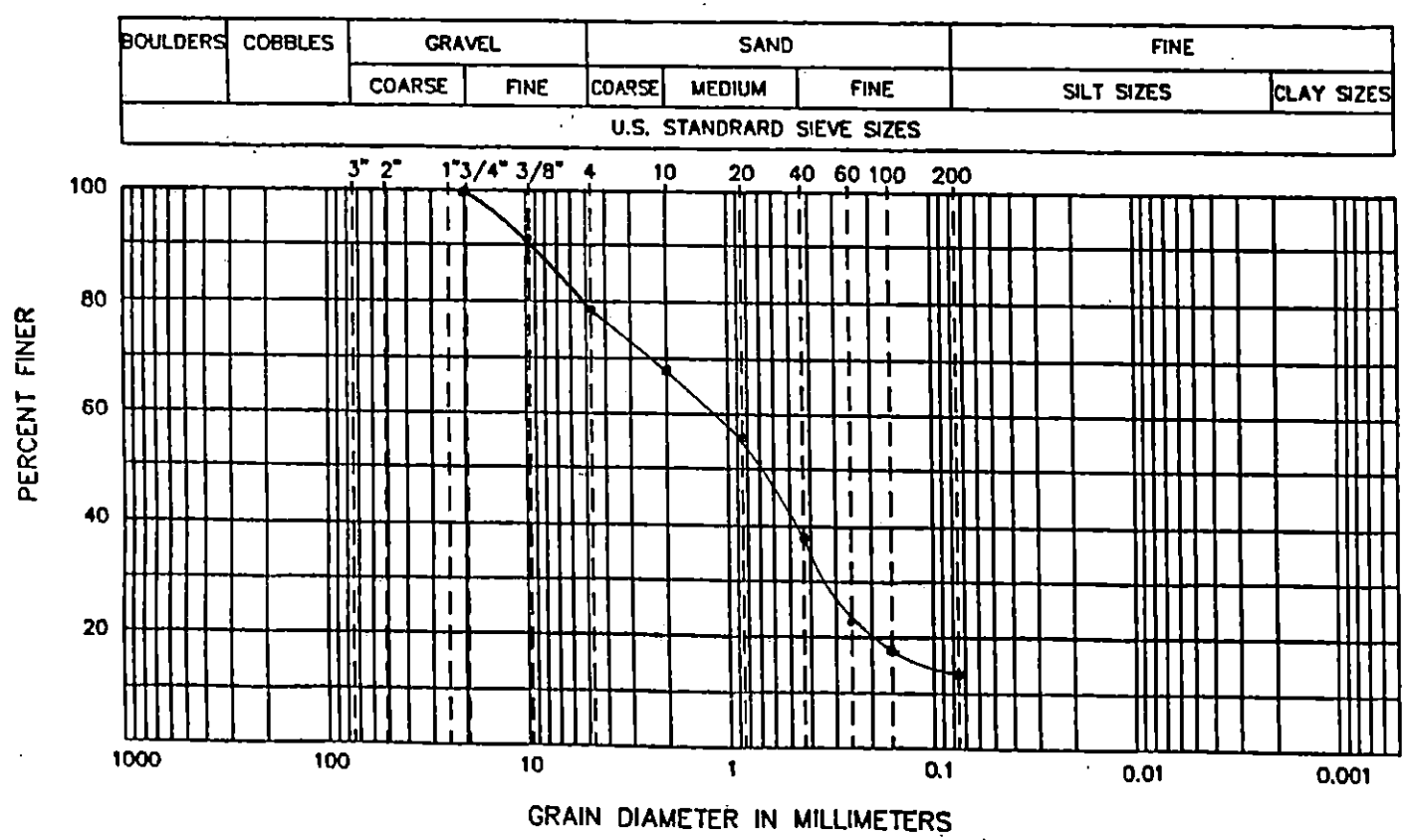
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-71 QA ID: PAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.8
3/8-in.	91.1
NO. 4	78.8
NO. 10	67.7
NO. 20	55.6
NO. 40	37.4
NO. 60	23.2
NO. 100	17.1
NO. 200	13.9

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-71 QA ID: 2/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10569	10659	10572		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4724	4814	4727		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	137.0	139.6	137.1		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	130.1	130.2	125.4		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.2		
G	WT. OF WET SOIL & TARE	(grams)	536.5	498.3	492.0		
H	WT. OF DRY SOIL & TARE	(grams)	510.1	465.3	450.8		
I	WT. OF WATER = G - H	(grams)	26.4	33.0	41.2		
J	WT. DRY SOIL = H - F	(grams)	502.2	457.3	442.6		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	7.2%	9.3%		

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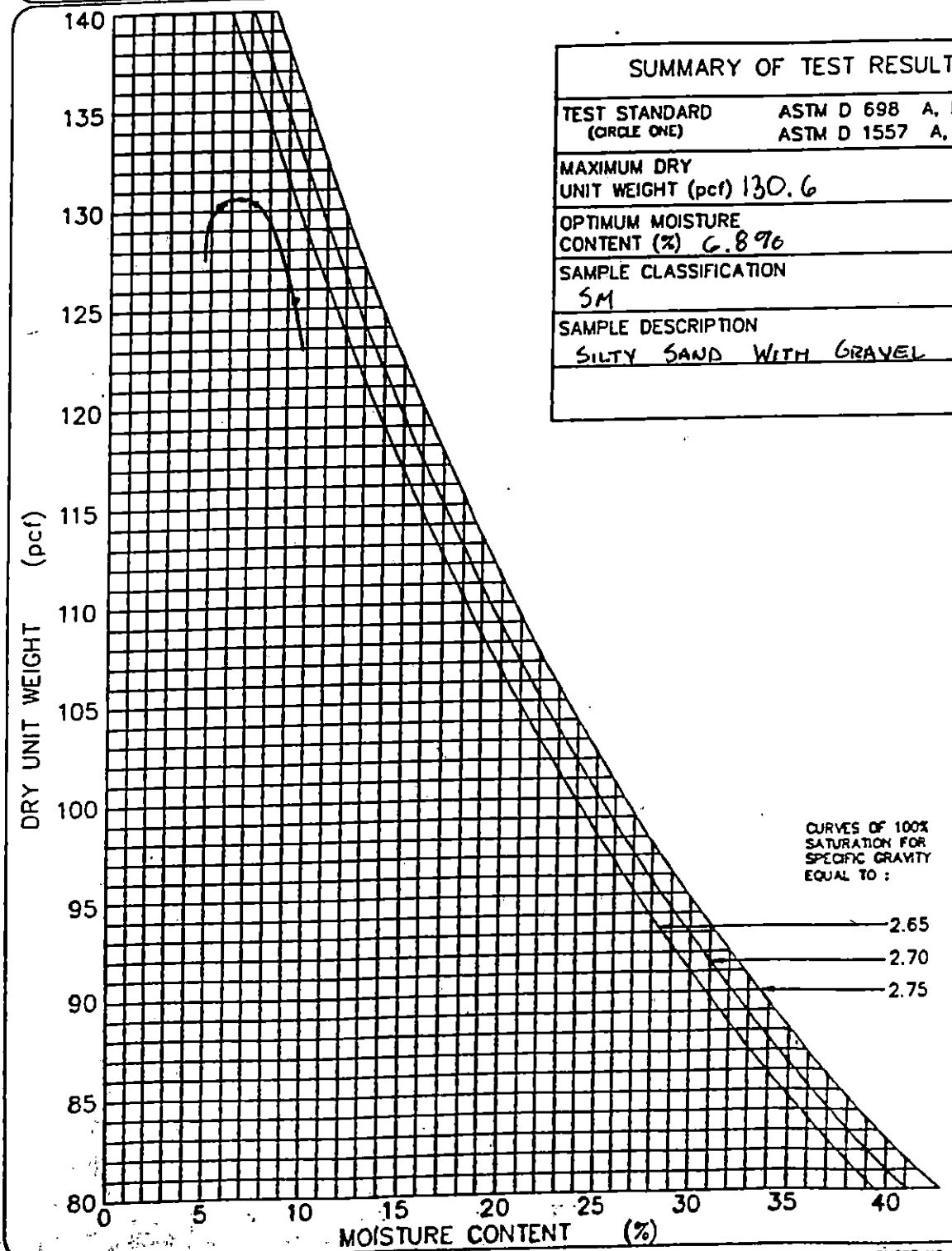
TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 07 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-71 OA ID: P1R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.6
OPTIMUM MOISTURE CONTENT (%)	6.8%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 07 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-72 QA ID: PAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1941.8	1690.8
WT. OF TARE	(grams)	20.4	16.1
WT. OF DRY SAMPLE	(grams)	1921.4	1674.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	99.4	5.2	94.8	
3/8"	9.5	181.3	9.4	90.6	
4	4.75	383.6	20.0	80.0	
10	2.0	594.0	30.9	69.1	
20	0.850	843.0	43.9	56.1	
40	0.425	1224.4	63.7	36.3	
60	0.250	1514.0	78.8	21.2	
100	0.150	1624.8	84.6	15.4	
200	0.075	1670.8	87.0	13.0	

%FINER = 100 - Σ% RETAINED

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TOWN OF HUNTINGTON

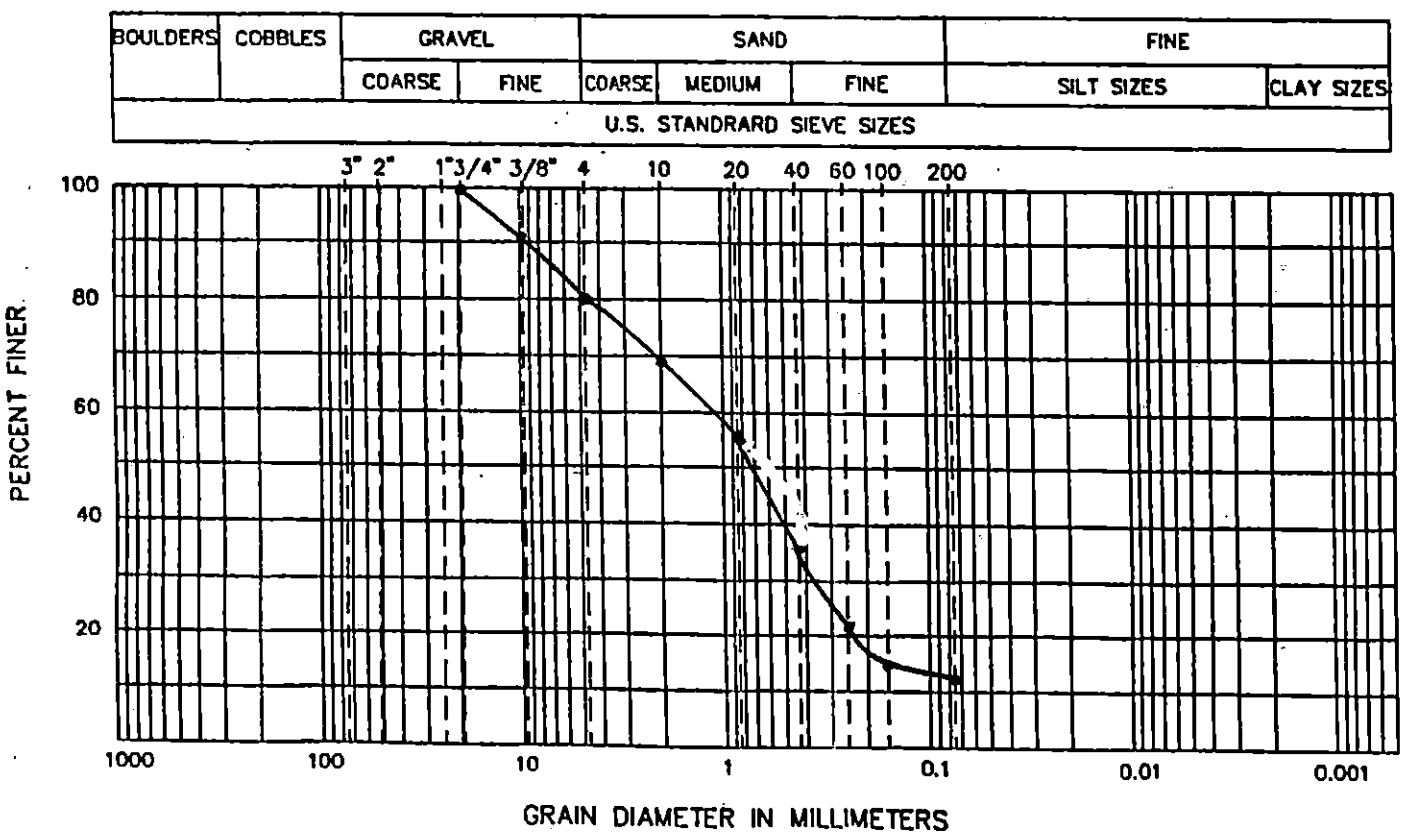
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-72 QA ID: JAR



CURVE COEFFICIENTS

(C_u) . . . . . .

(C_c) . . . . . .

ATTERBERG LIMITS

(LL) . . . . . .

(PL) . . . . . .

(PI) . . . . . .

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.8
3/8-in.	90.6
NO. 4	80.0
NO. 10	69.1
NO. 20	56.1
NO. 40	36.3
NO. 60	21.2
NO. 100	15.4
NO. 200	13.0

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 13 day 07 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-72 — QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10415	10615	10585		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4570	4770	4740		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.5	138.3	137.5		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.3	129.4	127.6		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.1		
G	WT. OF WET SOIL & TARE	(grams)	535.3	546.2	525.0		
H	WT. OF DRY SOIL & TARE	(grams)	510.5	514.8	488.3		
I	WT. OF WATER = G - H	(grams)	24.8	34.4	37.3		
J	WT. DRY SOIL = H - F	(grams)	502.6	506.8	480.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.9%	6.9%	7.8%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

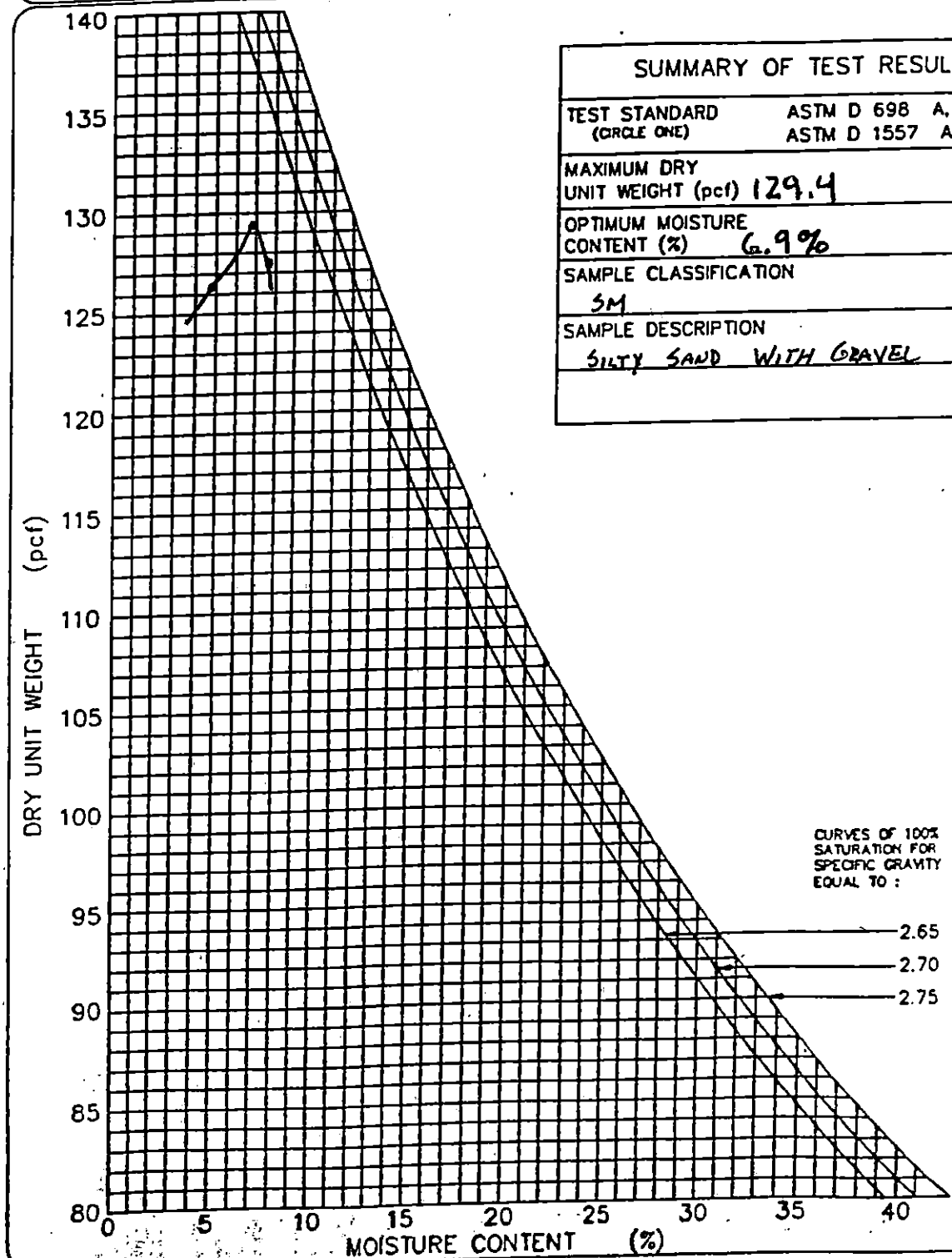
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-72 QA ID: D/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, C
MAXIMUM DRY UNIT WEIGHT (pcf)	129.4
OPTIMUM MOISTURE CONTENT (%)	6.9%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 07 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-73 QA ID: P/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1819.8	1586.3
WT. OF TARE	(grams)	19.5	15.8
WT. OF DRY SAMPLE	(grams)	1800.3	1570.5

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	95.8	5.3	94.7	
3/8"	9.5	164.0	9.1	90.9	
4	4.75	377.6	21.0	79.0	
10	2.0	572.0	31.8	68.2	
20	0.850	801.7	44.5	55.5	
40	0.425	1160.9	64.5	35.5	
60	0.250	1427.9	79.3	20.7	
100	0.150	1527.6	84.9	16.1	
200	0.075	1567.7	87.1	12.9	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

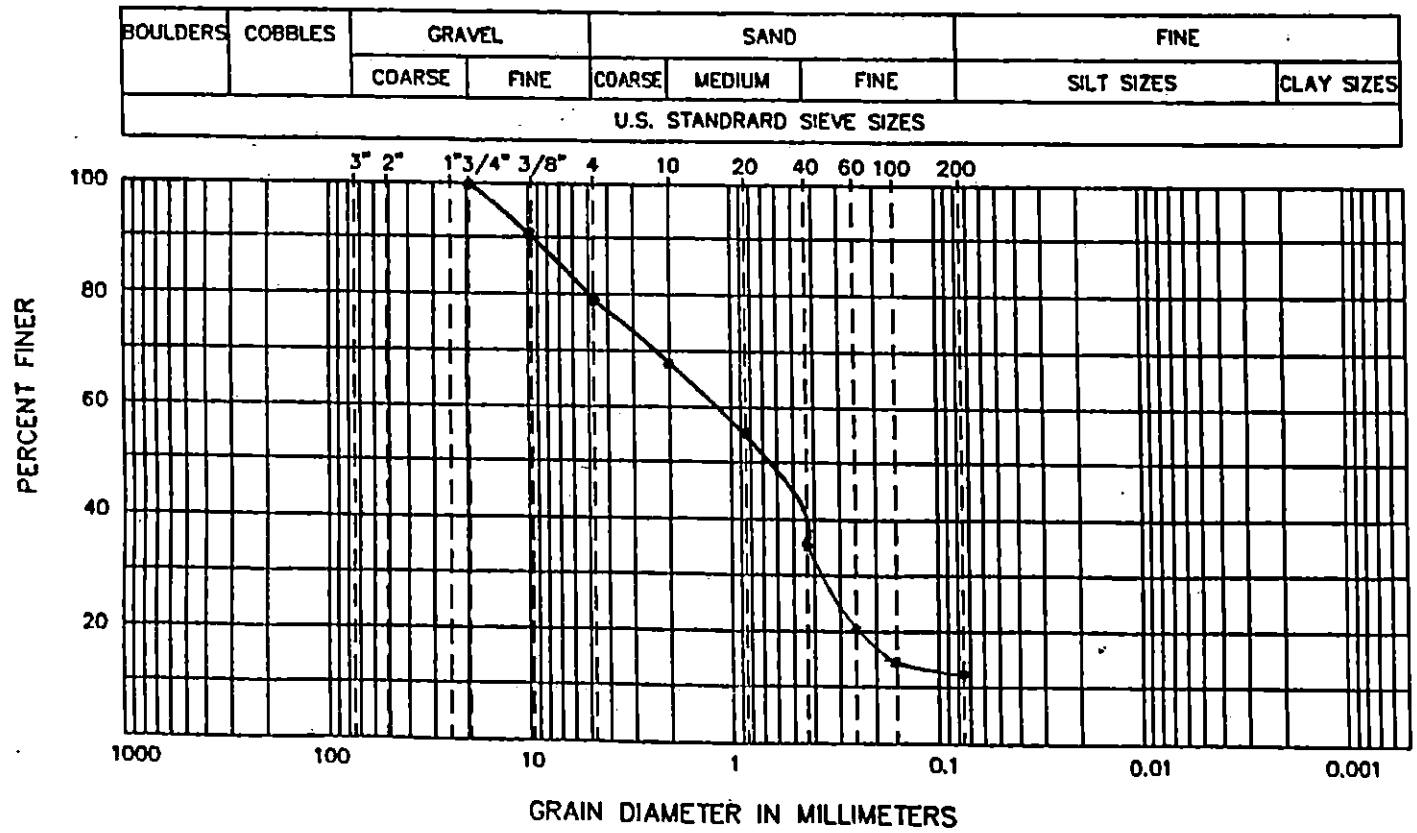
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-73 QA ID: D/R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.7
3/8-in.	90.9
NO. 4	79.0
NO. 10	68.2
NO. 20	55.5
NO. 40	35.5
NO. 60	20.7
NO. 100	15.1
NO. 200	12.9

SOIL CLASSIFICATION (ASTM D 2487): SM- SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-73 QA ID: FAIR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10400	10649	10647		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4555	4804	4802		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.1	139.3	139.3		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.0	130.7	129.1		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.2		
G	WT. OF WET SOIL & TARE	(grams)	517.8	571.4	514.7		
H	WT. OF DRY SOIL & TARE	(grams)	494.6	536.4	477.5		
I	WT. OF WATER = G - H	(grams)	23.2	35.0	37.2		
J	WT. DRY SOIL = H - F	(grams)	486.6	528.4	469.3		
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.8%	6.6%	7.9%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

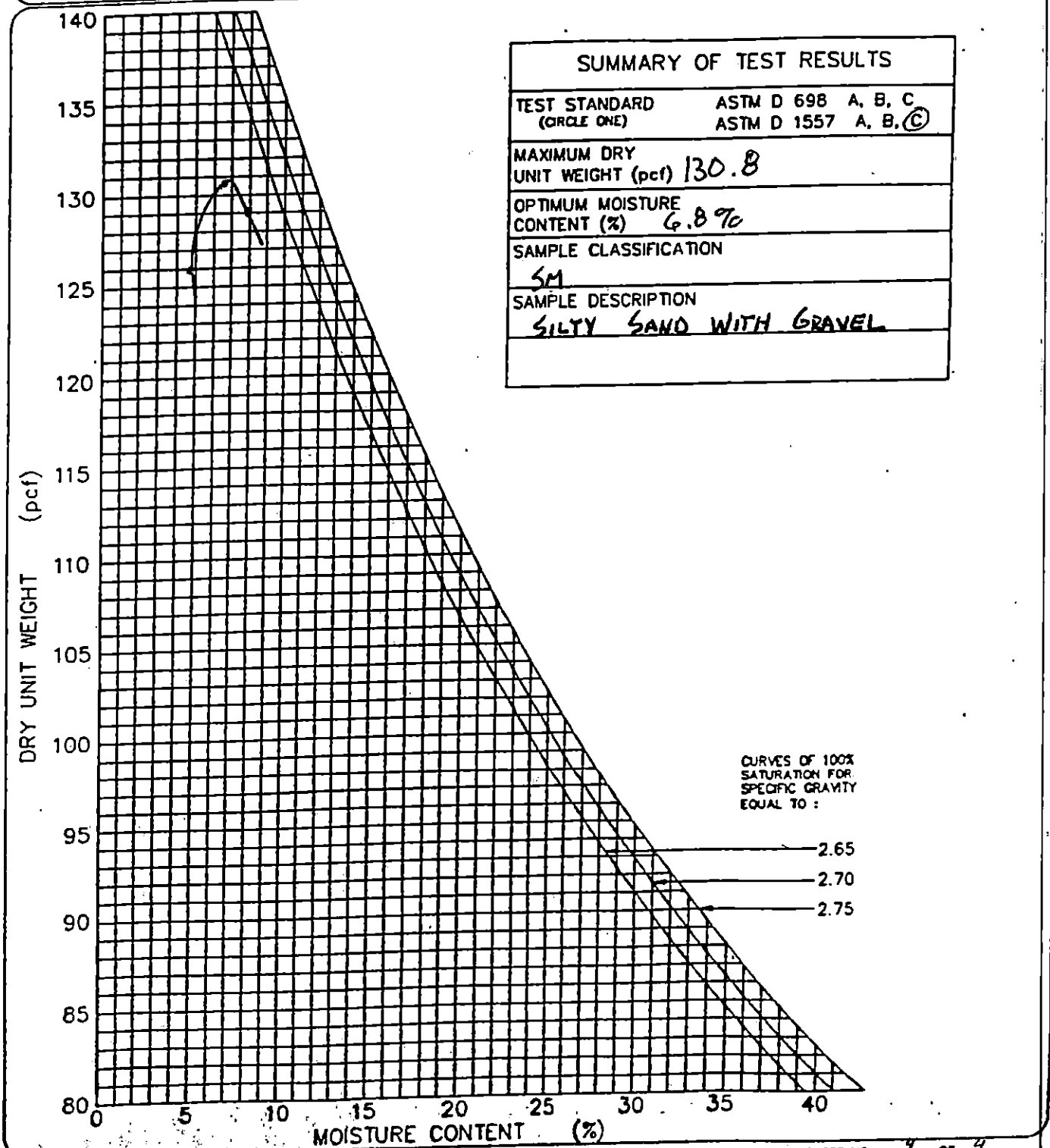
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-73 QA ID: P1K



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.8
OPTIMUM MOISTURE CONTENT (%)	6.8 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 07 month 95 year
SOURCE: B. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-74 QA ID: P/R

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1756.8	1541.1
WT. OF TARE	(grams)	19.3	15.9
WT. OF DRY SAMPLE	(grams)	1737.5	1525.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0 %	
3/4"	19.0	0.0	0.0	100.0 %	
1/2"	12.5	79.8	4.6	95.4%	
3/8"	9.5	184.7	10.6	89.4%	
4	4.75	411.0	23.7	76.3%	
10	2.0	624.5	35.9	64.1%	
20	0.850	846.4	48.7	51.3%	
40	0.425	1157.5	66.6	33.4%	
60	0.250	1386.3	79.8	20.2%	
100	0.150	1480.1	85.2	14.8%	
200	0.075	1523.1	87.7	12.3%	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

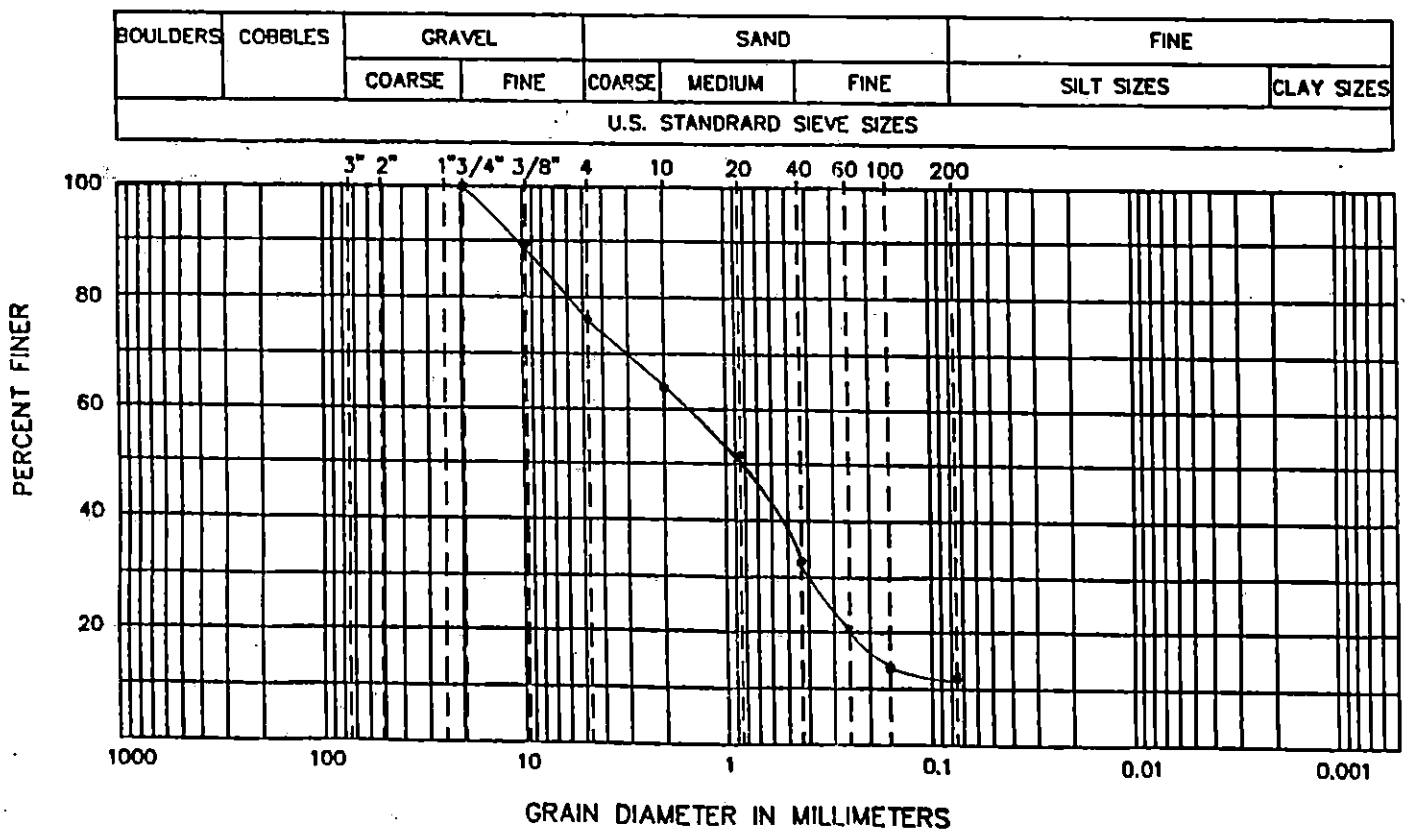
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 07 month 95 year

SOURCE: R. SCHLEIDER - MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-74 QA ID: D/R



CURVE COEFFICIENTS

(C_u) . . . . . .

(C_c) . . . . . .

ATTERBERG LIMITS

(LL) . . . . . .

(PL) . . . . . .

(PI) . . . . . .

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.4
3/8-in.	89.4
NO. 4	76.3
NO. 10	64.1
NO. 20	51.3
NO. 40	33.4
NO. 60	20.2
NO. 100	14.8
NO. 200	12.3

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-74 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10498	10714	10603		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4653	4869	4758		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	134.9	141.2	138.0		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.4	130.3	124.8		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.2		
G	WT. OF WET SOIL & TARE	(grams)	534.3	411.5	554.7		
H	WT. OF DRY SOIL & TARE	(grams)	508.8	380.4	502.2		
I	WT. OF WATER = G - H	(grams)	25.5	31.1	52.5		
J	WT. DRY SOIL = H - F	(grams)	500.9	372.4	494.0		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.1%	8.4%	10.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

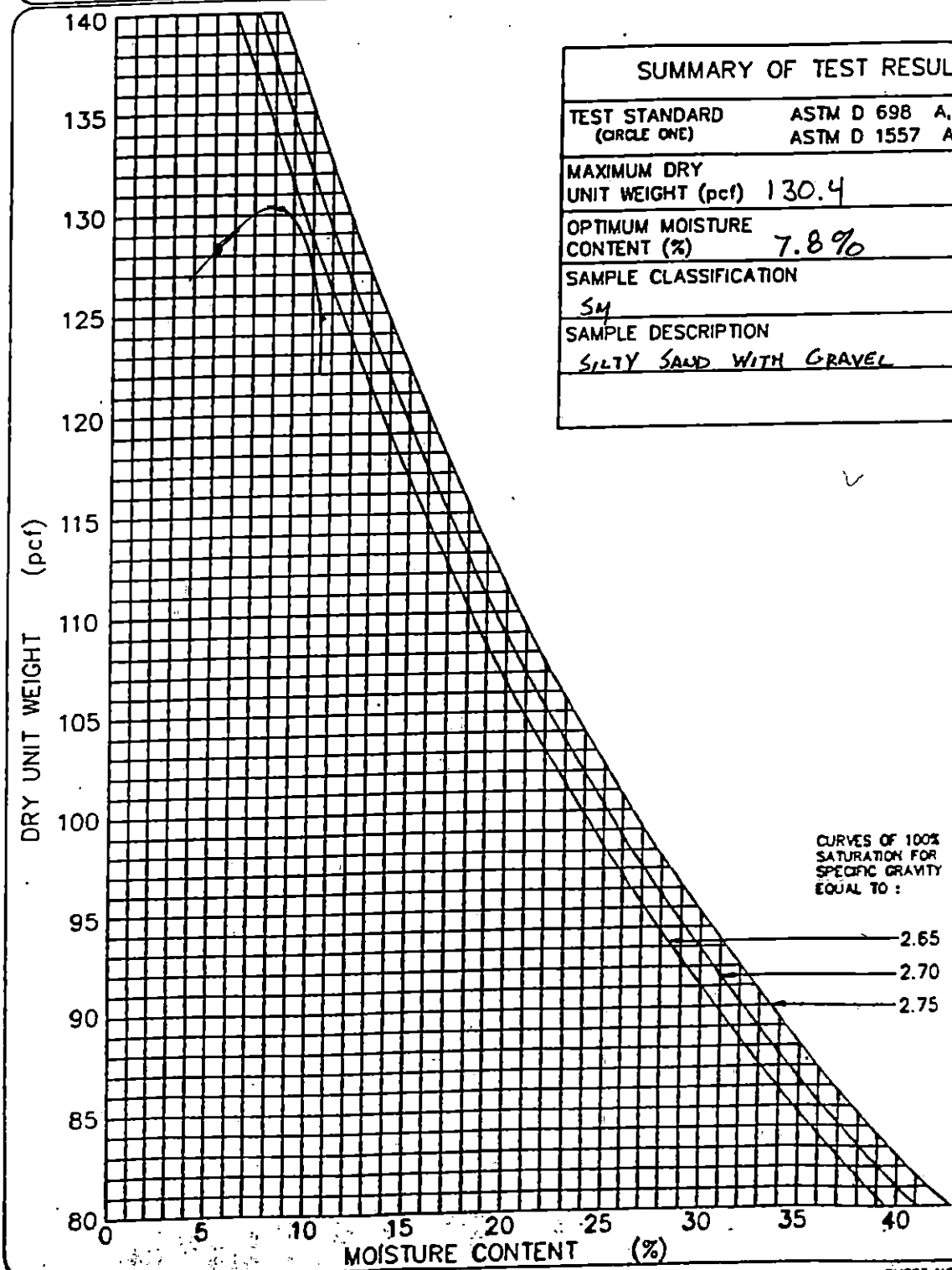
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-74 QA ID: P1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.4
OPTIMUM MOISTURE CONTENT (%)	7.8%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-53 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10516	10705	10664		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4671	4860	4819		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.5	140.9	139.8		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.7	131.4	127.8		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.2		
G	WT. OF WET SOIL & TARE	(grams)	569.3	523.5	587.9		
H	WT. OF DRY SOIL & TARE	(grams)	541.6	488.8	537.9		
I	WT. OF WATER = G - H	(grams)	28.3	34.7	50.0		
J	WT. DRY SOIL = H - F	(grams)	533.0	480.8	529.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	7.2%	9.4%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

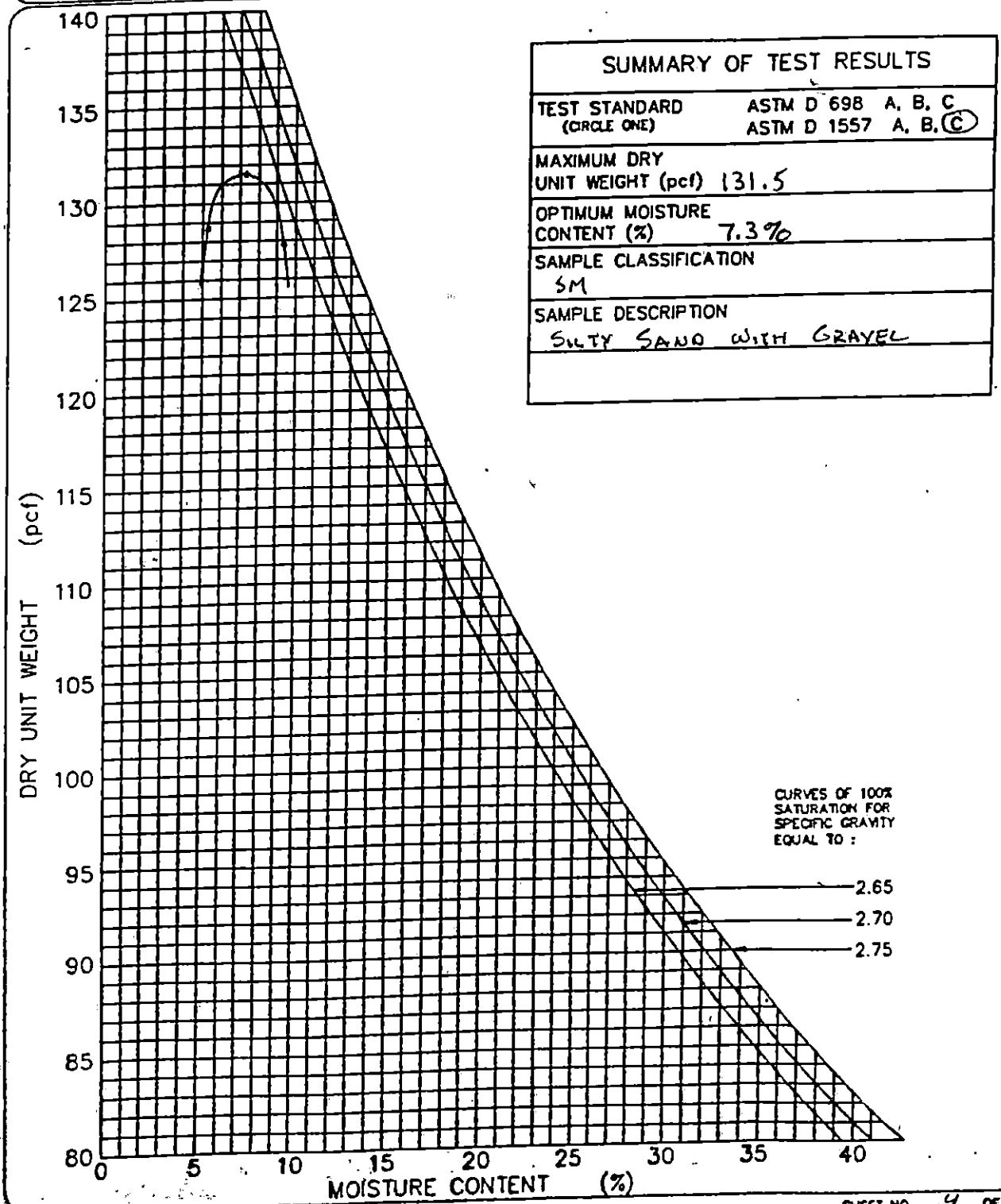
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-53 QA ID: D1R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	131.5
OPTIMUM MOISTURE CONTENT (%)	7.3%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-54 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1750.2	1561.0
WT. OF TARE	(grams)	17.7	16.1
WT. OF DRY SAMPLE	(grams)	1732.5	1544.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0 %	
3/4"	19.0	0.0	0.0	100.0 %	
1/2"	12.5	43.1	2.5	97.5%	
3/8"	9.5	89.7	5.2	94.8%	
4	4.75	258.4	14.9	85.1%	
10	2.0	441.7	25.5	74.5%	
20	0.850	667.4	38.5	61.5%	
40	0.425	1060.5	61.2	38.8%	
60	0.250	1375.6	79.4	20.6%	
100	0.150	1497.4	86.4	13.6%	
200	0.075	1542.8	89.1	10.9%	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

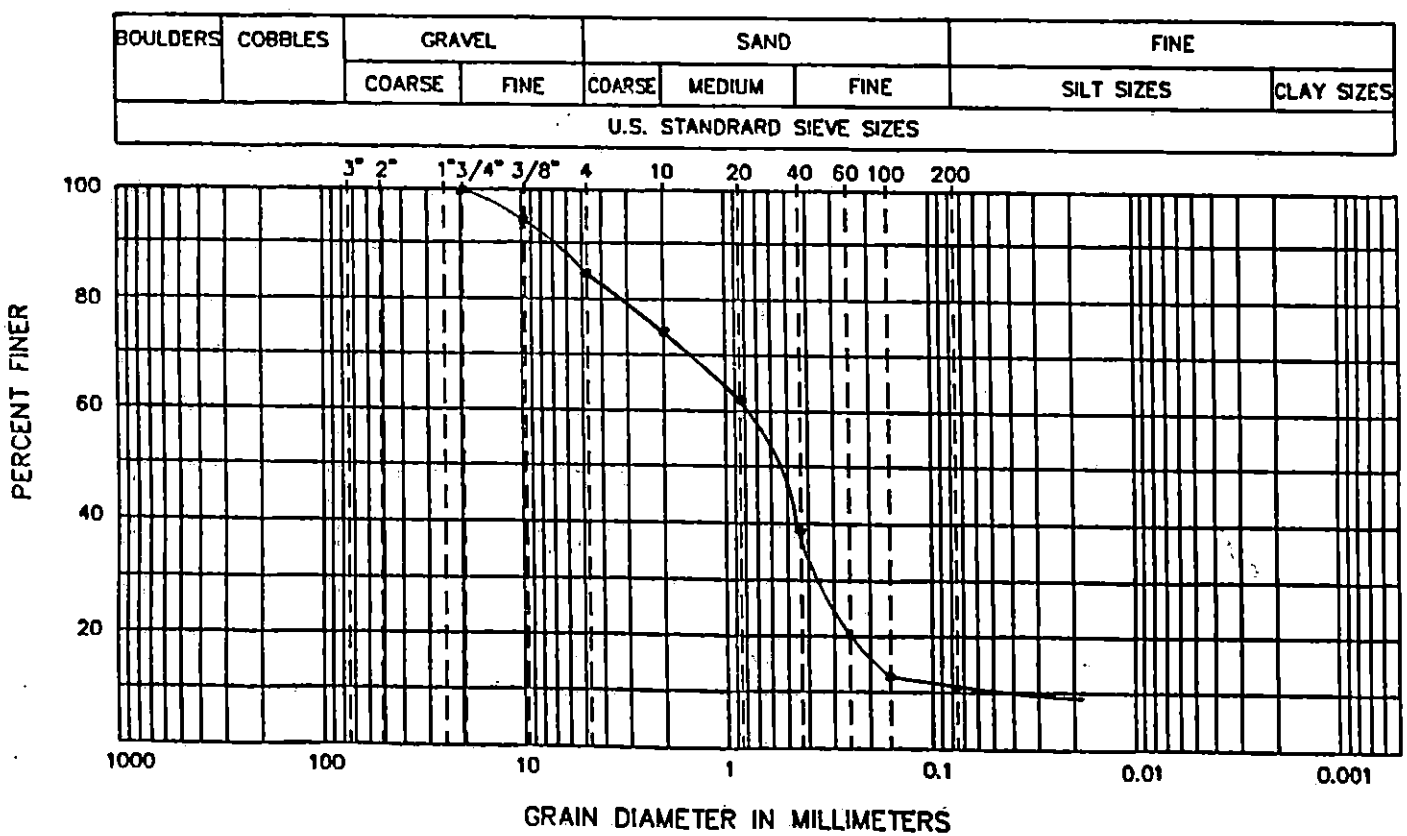
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-54 QA ID: D/R



CURVE COEFFICIENTS

(C_u) 16.7

(C_c) 3.0

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.5
3/8-in.	94.8
NO. 4	85.1
NO. 10	74.5
NO. 20	61.5
NO. 40	38.8
NO. 60	20.6
NO. 100	13.6
NO. 200	10.9

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 21 day 06 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-54 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10409	10574	10555		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4564	4729	4710		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.4	137.1	136.6		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.0	126.8	124.9		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.1	8.2		
G	WT. OF WET SOIL & TARE	(grams)	579.1	582.0	536.2		
H	WT. OF DRY SOIL & TARE	(grams)	547.2	538.9	490.9		
I	WT. OF WATER = G - H	(grams)	31.9	43.1	45.3		
J	WT. DRY SOIL = H - F	(grams)	539.2	530.8	482.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.9%	8.1%	9.4%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

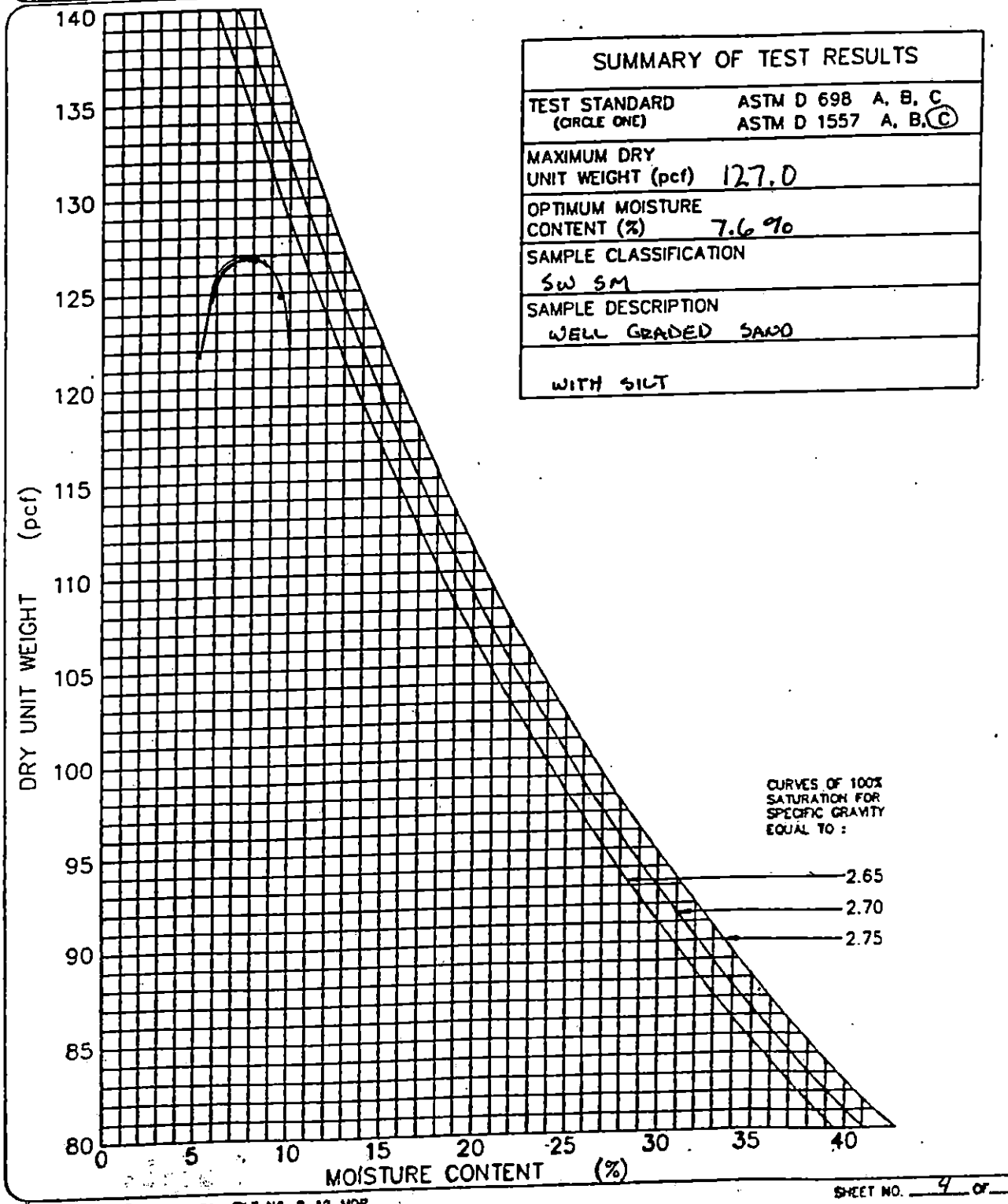
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-54 QA ID: >1 R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	127.0
OPTIMUM MOISTURE CONTENT (%)	7.6 %
SAMPLE CLASSIFICATION	SW SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT

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GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-55 QA ID: 2/R

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1908.4	1669.2
WT. OF TARE	(grams)	19.2	15.9
WT. OF DRY SAMPLE	(grams)	1889.2	1653.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	83.3	4.4	95.6	
3/8"	9.5	148.3	7.8	92.2	
4	4.75	362.0	19.2	80.8	
10	2.0	559.1	29.6	70.4	
20	0.850	789.0	41.8	58.2	
40	0.425	1163.2	61.6	38.4	
60	0.250	1461.3	77.4	22.6	
100	0.150	1589.7	84.1	15.9	
200	0.075	1650.8	87.4	12.6	

%FINER = 100 − Σ % RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

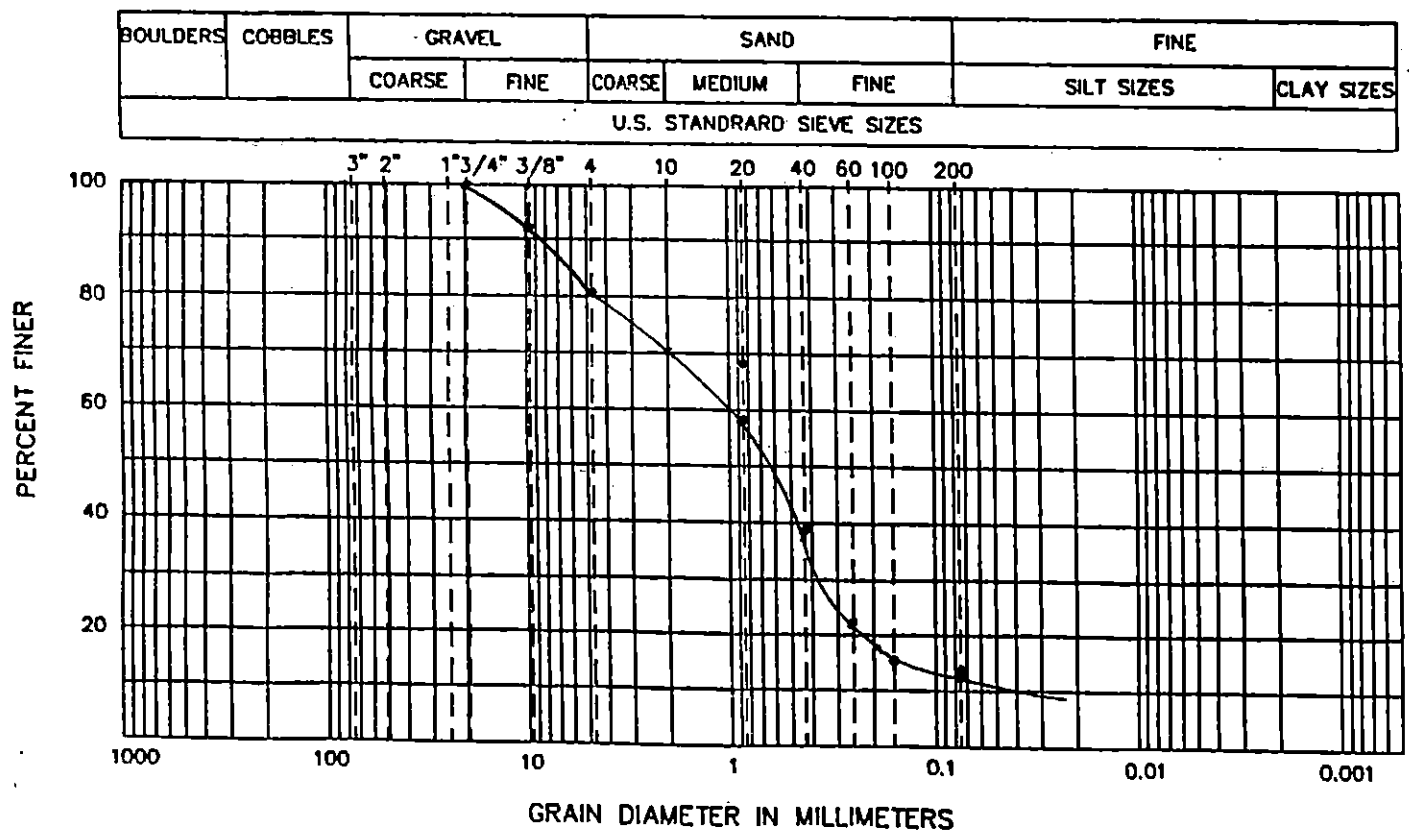
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 06 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-55 QA ID: D/R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.6
3/8-in.	92.2
NO. 4	80.8
NO. 10	70.4
NO. 20	58.2
NO. 40	38.4
NO. 60	22.6
NO. 100	15.9
NO. 200	12.6

SOIL CLASSIFICATION (ASTM D 2487): SM SILTY SAND

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-75 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1942.7	1760.6
WT. OF TARE	(grams)	19.3	17.9
WT. OF DRY SAMPLE	(grams)	1904.1	1742.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	42.0	2.2	97.8	
3/8"	9.5	120.6	6.3	93.7	
4	4.75	426.7	22.6	77.4	
10	2.0	586.3	30.8	69.2	
20	0.850	834.9	43.8	56.2	
40	0.425	1237.4	65.0	35.0	
60	0.250	1556.8	81.8	18.2	
100	0.150	1680.0	88.2	11.8	
200	0.075	1740.2	91.4	8.6	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

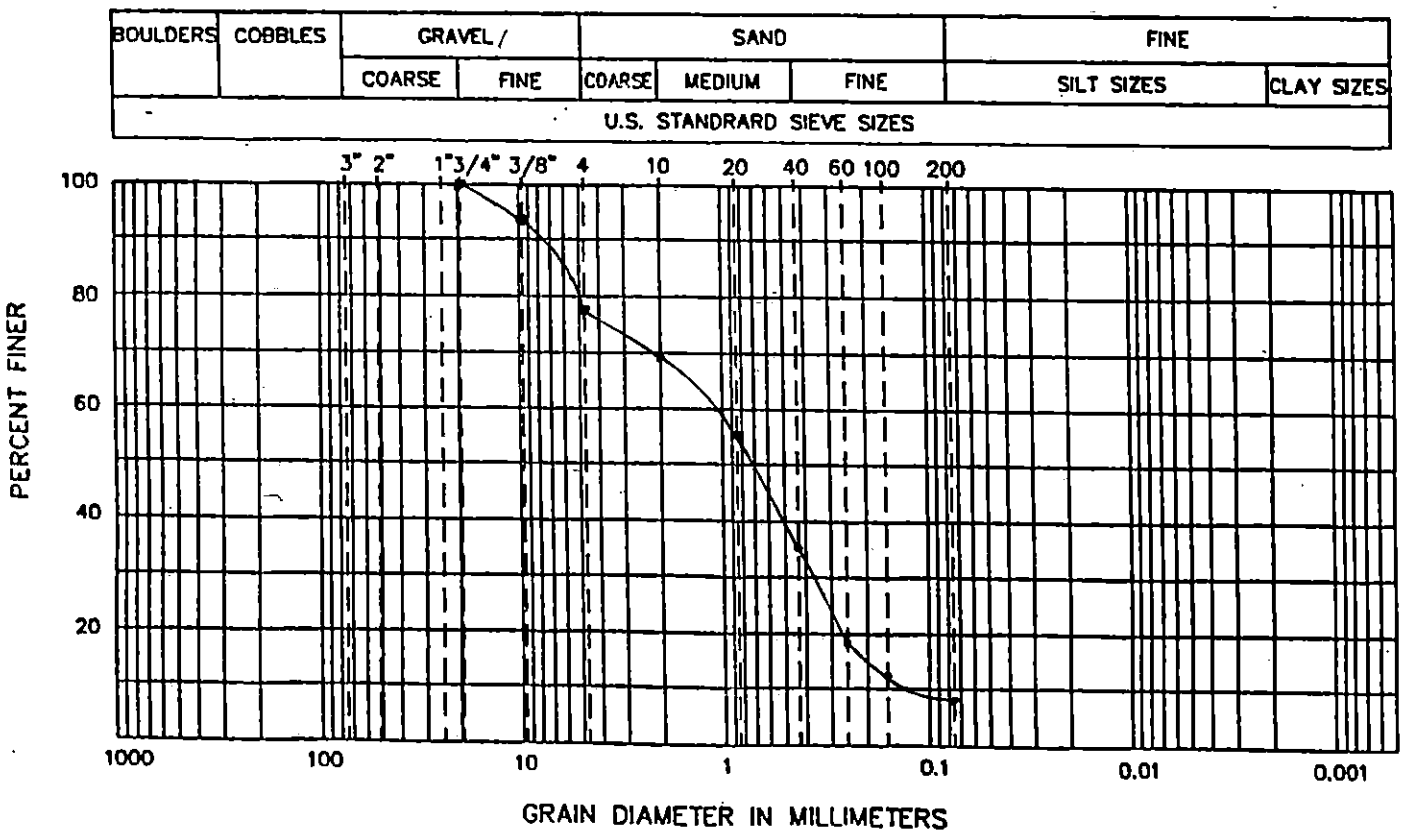
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 21 day 07 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-75 — QA ID: DJR



CURVE COEFFICIENTS

(C_u) 8.5

(C_c) 1.0

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.8
3/8-in.	93.7
NO. 4	77.9
NO. 10	69.2
NO. 20	56.2
NO. 40	35.0
NO. 60	18.2
NO. 100	11.8
NO. 200	8.6

SOIL CLASSIFICATION (ASTM D 2487): SW-SM - WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 21 day 07 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-75 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10475	10578	10549		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4630	4733	4704		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	134.3	137.3	136.4		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.8	126.9	124.3		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.1		
G	WT. OF WET SOIL & TARE	(grams)	478.1	559.8	523.5		
H	WT. OF DRY SOIL & TARE	(grams)	451.9	517.9	477.9		
I	WT. OF WATER = G - H	(grams)	26.2	41.9	45.6		
J	WT. DRY SOIL = H - F	(grams)	443.9	509.8	469.8		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.9%	8.2%	9.7%		

GeoSyntec Consultants

TOWN OF HUNTINGTON

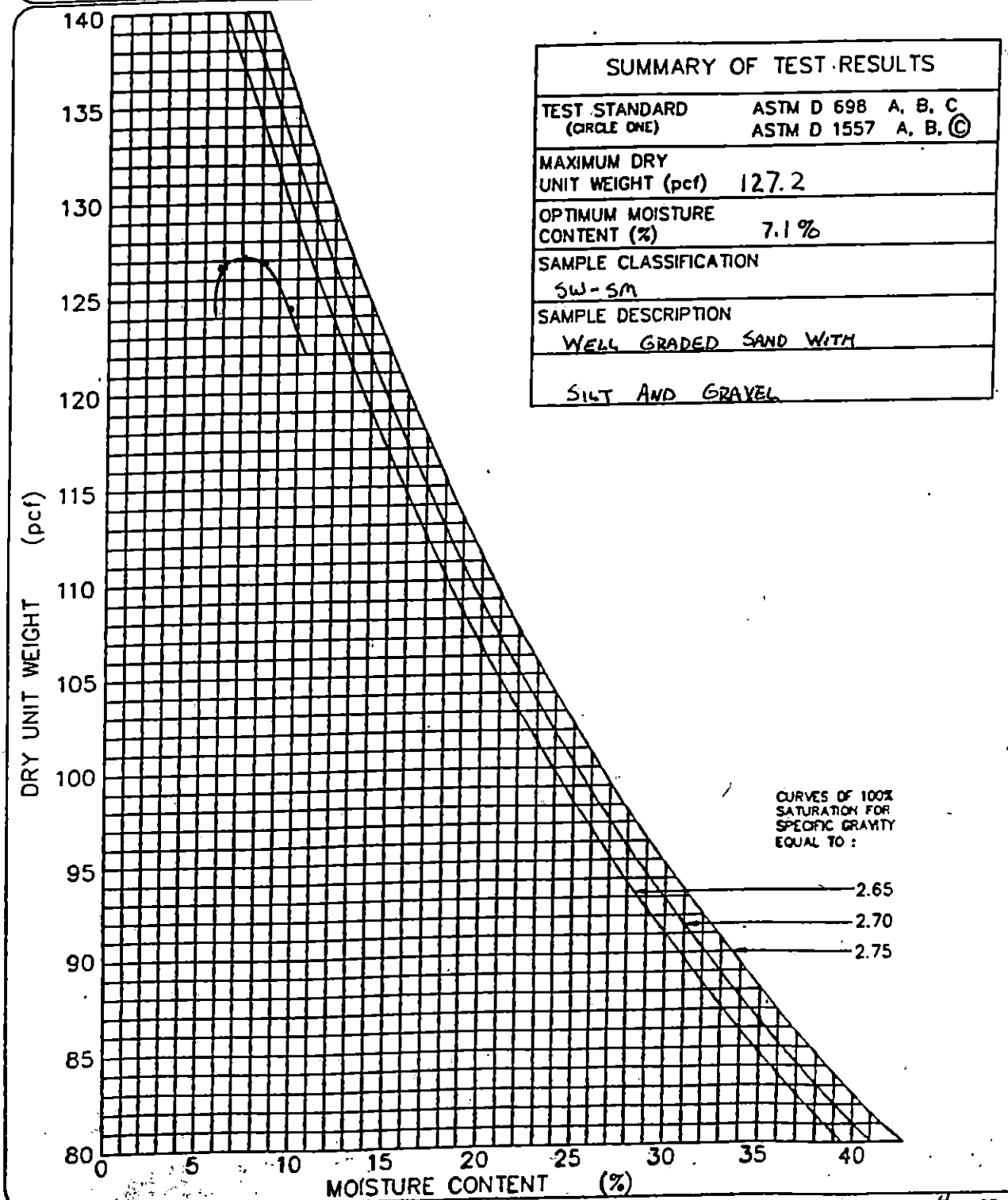
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-75 QA ID: D1R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	127.2
OPTIMUM MOISTURE CONTENT (%)	7.1%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 07 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-76 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1947.3	1751.1
WT. OF TARE	(grams)	20.3	16.0
WT. OF DRY SAMPLE	(grams)	1927.0	1735.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0 %	
3/4"	19.0	0.0	0.0	100.0 %	
1/2"	12.5	104.1	5.4	94.6 %	
3/8"	9.5	186.9	9.7	90.3 %	
4	4.75	420.1	21.8	78.2 %	
10	2.0	651.3	33.8	66.2 %	
20	0.850	884.4	45.9	54.1 %	
40	0.425	1254.5	65.1	34.9 %	
60	0.250	1557.0	80.8	19.2 %	
100	0.150	1676.5	87.0	13.0 %	
200	0.075	1732.4	89.9	10.1 %	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

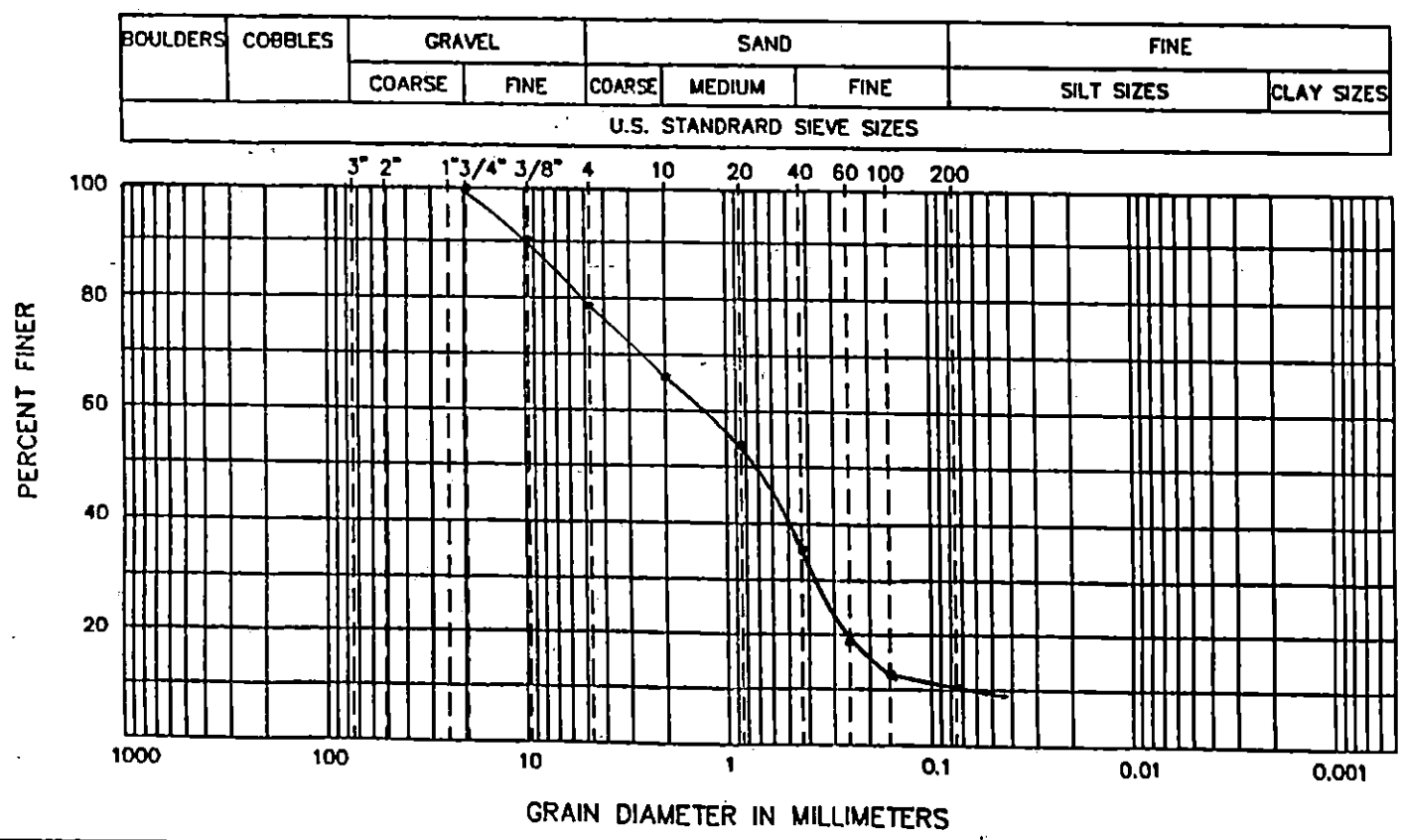
SOURCE: R. SCHLEIDER

MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 21 day 07 month 95 year

SAMPLE NO.: S-76 QA ID: D.I.R



CURVE COEFFICIENTS

(C_u) 19.4

(C_c) 1.8

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.6
3/8-in.	90.3
NO. 4	78.2
NO. 10	66.2
NO. 20	54.1
NO. 40	34.9
NO. 60	19.2
NO. 100	13.0
NO. 200	10.1

SOIL CLASSIFICATION (ASTM D 2487): SW-SM - WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 07 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-76 QA ID: PK

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20%
AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10324	10568	10585		
B	WT. OF MOLD	(grams)	5845	5845	5843		
C	WT. OF SOIL = A - B	(grams)	4479	4723	4740		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.0	137.0	137.5		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.5	128.9	126.5		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.4	8.2		
G	WT. OF WET SOIL & TARE	(grams)	531.7	542.5	504.8		
H	WT. OF DRY SOIL & TARE	(grams)	506.3	510.9	465.0		
I	WT. OF WATER = G - H	(grams)	25.4	31.6	39.8		
J	WT. DRY SOIL = H - F	(grams)	498.2	502.5	456.8		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.1%	6.3%	8.7%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

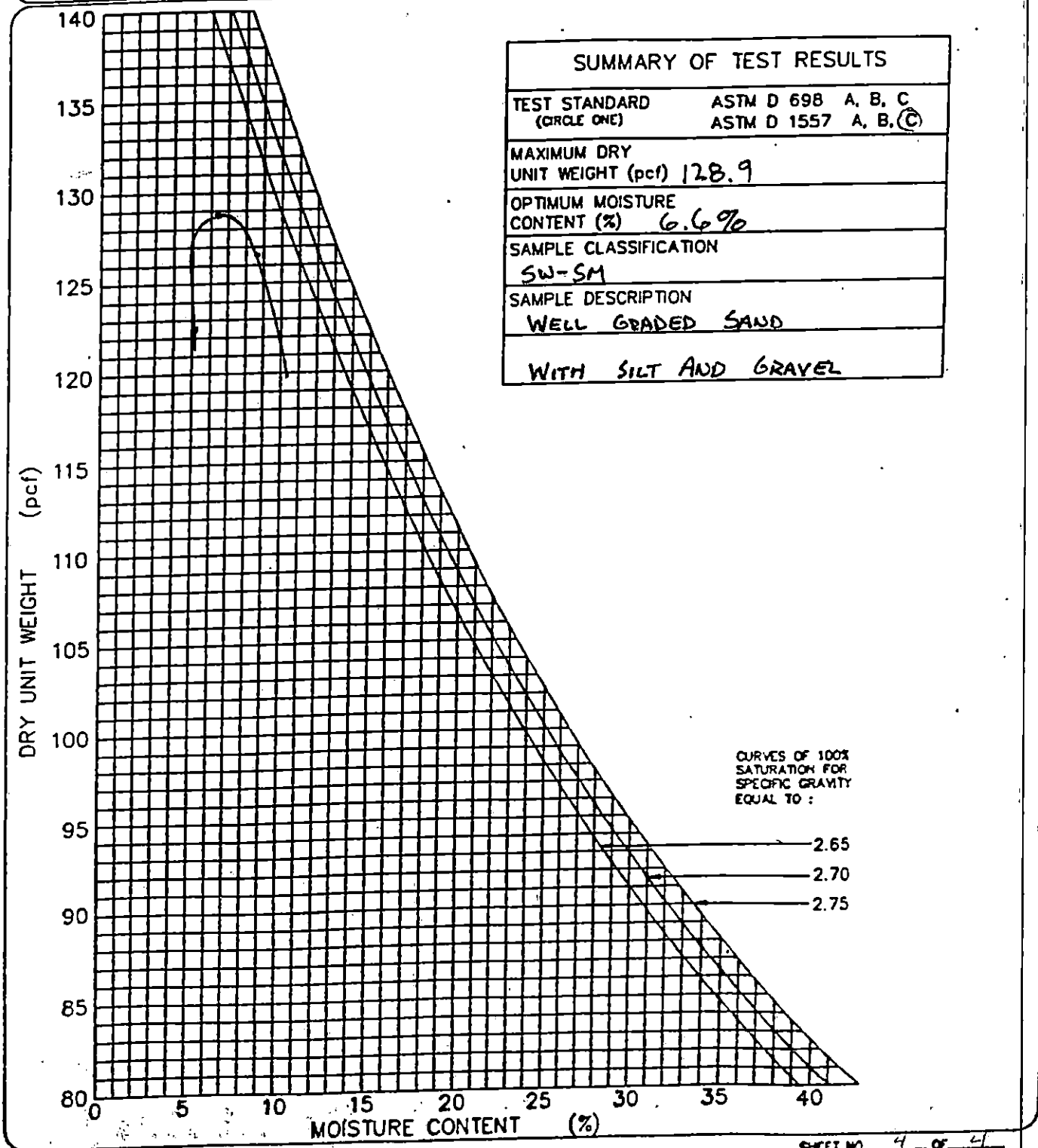
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 07 month 95 year

SOURCE: B. SCHLEIDER ON SITE MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-76 QA ID: DAR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.9
OPTIMUM MOISTURE CONTENT (%)	6.6%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 08 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-77 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1937.9	1701.6
WT. OF TARE	(grams)	19.3	15.9
WT. OF DRY SAMPLE	(grams)	1918.6	1685.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0 %	
3/4"	19.0	0.0	0.0	100.0 %	
1/2"	12.5	61.8	3.2	96.8%	
3/8"	9.5	143.3	7.5	92.5%	
4	4.75	376.7	19.6	80.4%	
10	2.0	606.2	31.6	68.4%	
20	0.850	838.1	43.7	56.3%	
40	0.425	1207.5	62.9	37.1%	
60	0.250	1507.3	78.6	21.4%	
100	0.150	1627.8	84.8	15.2%	
200	0.075	1682.1	87.7	12.3%	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

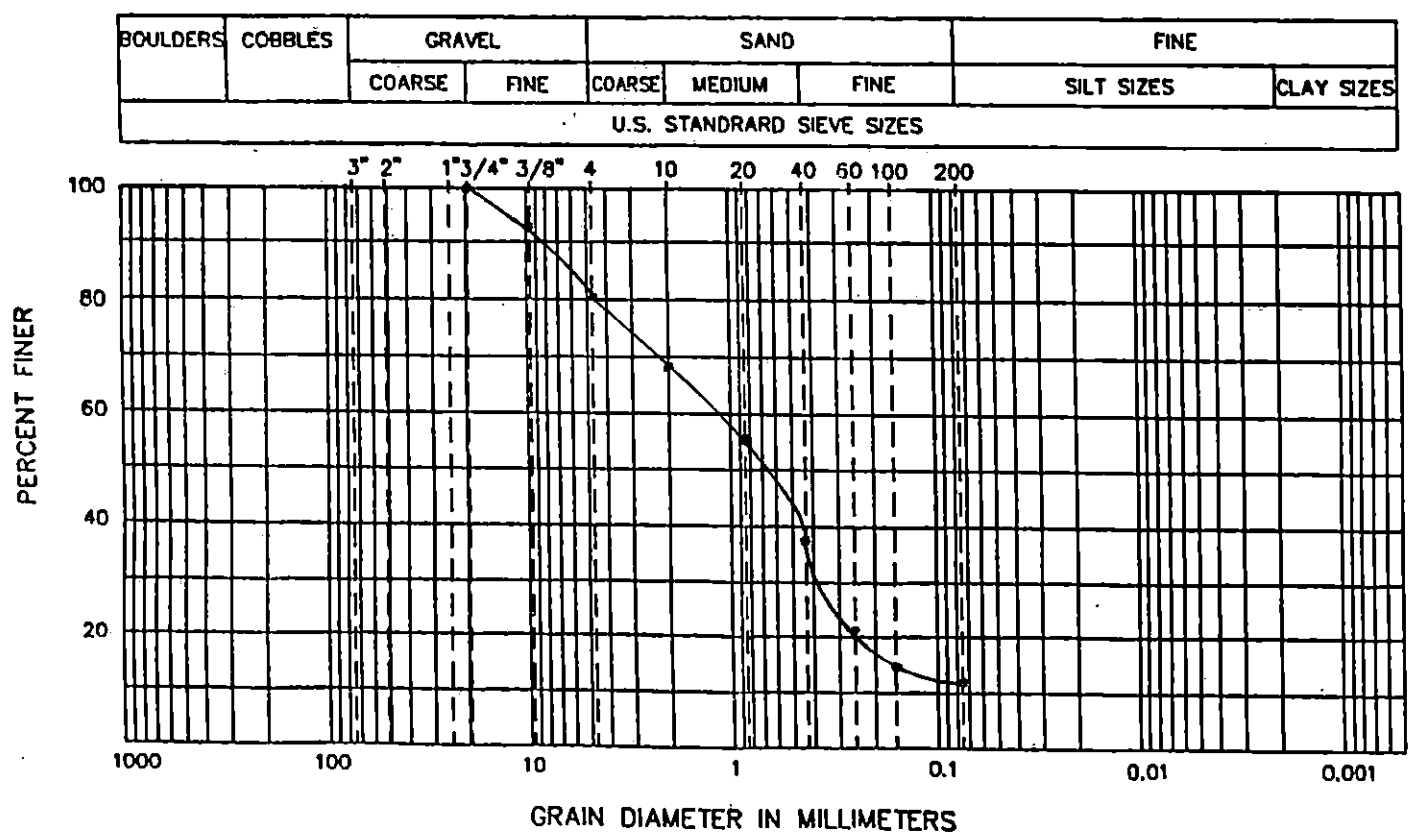
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 01 day 08 month 95 year

SOURCE: R. SCHLEIDER ON-SITE — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-77 — QA ID: DAR



CURVE COEFFICIENTS

(C_u) . . . . . .

(C_c) . . . . . .

ATTERBERG LIMITS

(LL) . . . . . .

(PL) . . . . . .

(PI) . . . . . .

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.8
3/8-in.	92.5
NO. 4	80.4
NO. 10	68.4
NO. 20	56.3
NO. 40	37.1
NO. 60	21.4
NO. 100	15.2
NO. 200	12.3

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-77 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10340	10617	10635		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4495	4772	4790		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.4	138.4	138.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.7	129.7	128.0		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	7.9	8.1		
G	WT. OF WET SOIL & TARE	(grams)	558.0	527.3	556.1		
H	WT. OF DRY SOIL & TARE	(grams)	533.8	494.5	513.3		
I	WT. OF WATER = G - H	(grams)	24.2	32.8	42.8		
J	WT. DRY SOIL = H - F	(grams)	525.9	486.6	505.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.6%	6.7%	8.5%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

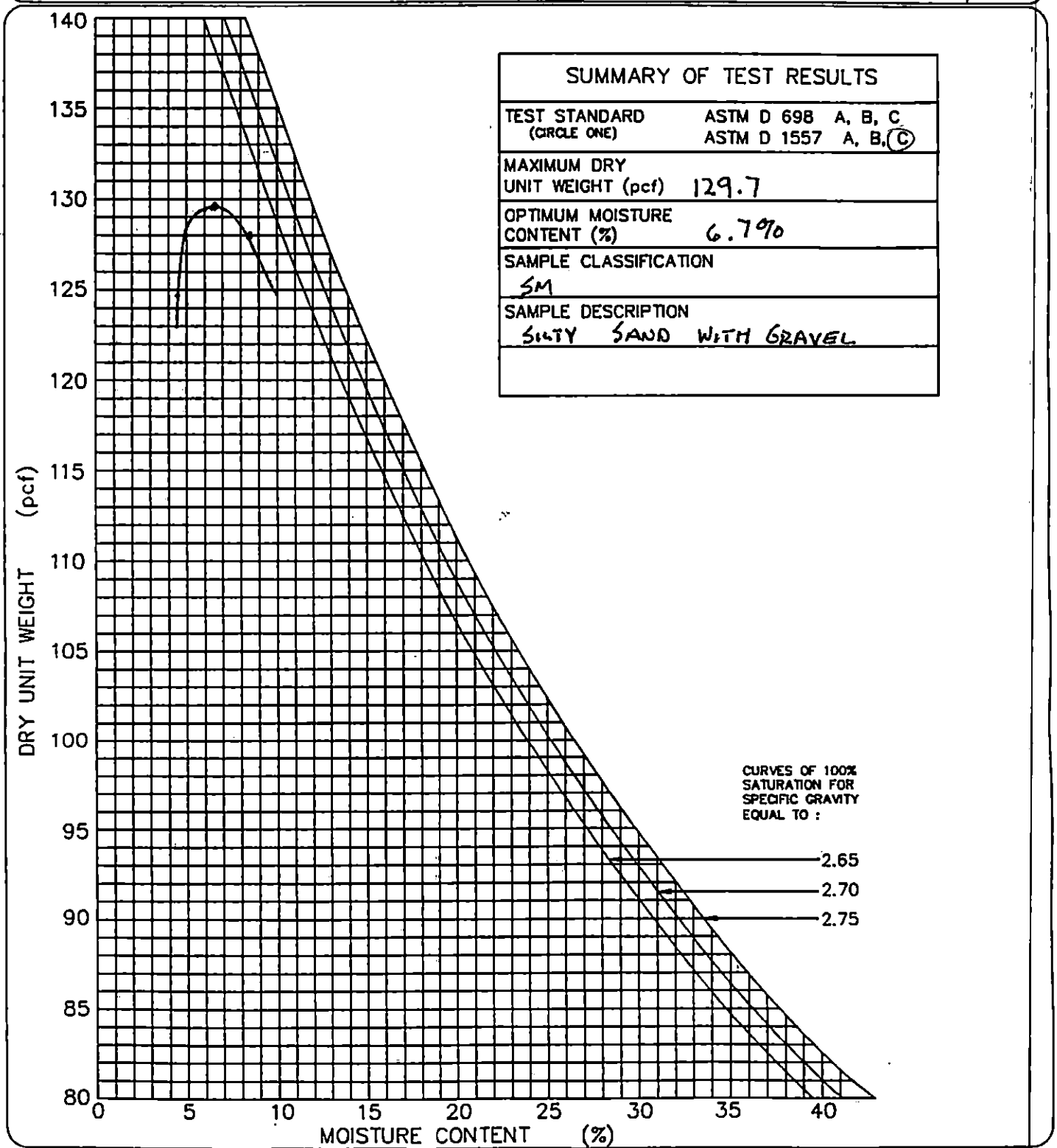
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-77 QA ID: DAR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.7
OPTIMUM MOISTURE CONTENT (%)	6.7%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GO3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 02 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-78 QA ID: 21R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1997.2	1764.4
WT. OF TARE	(grams)	20.4	16.0
WT. OF DRY SAMPLE	(grams)	1976.8	1748.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0%	
3/4"	19.0	0.0	0.0	100.0%	
1/2"	12.5	90.3	4.6	95.4%	
3/8"	9.5	183.8	9.3	90.7%	
4	4.75	394.4	20.0	80.0%	
10	2.0	603.6	30.5	69.5%	
20	0.850	843.6	42.7	57.3%	
40	0.425	1253.2	63.4	36.6%	
60	0.250	1569.7	79.4	20.6%	
100	0.150	1693.4	85.7	14.3%	
200	0.075	1745.2	88.3	11.7%	

%FINER = 100 - Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

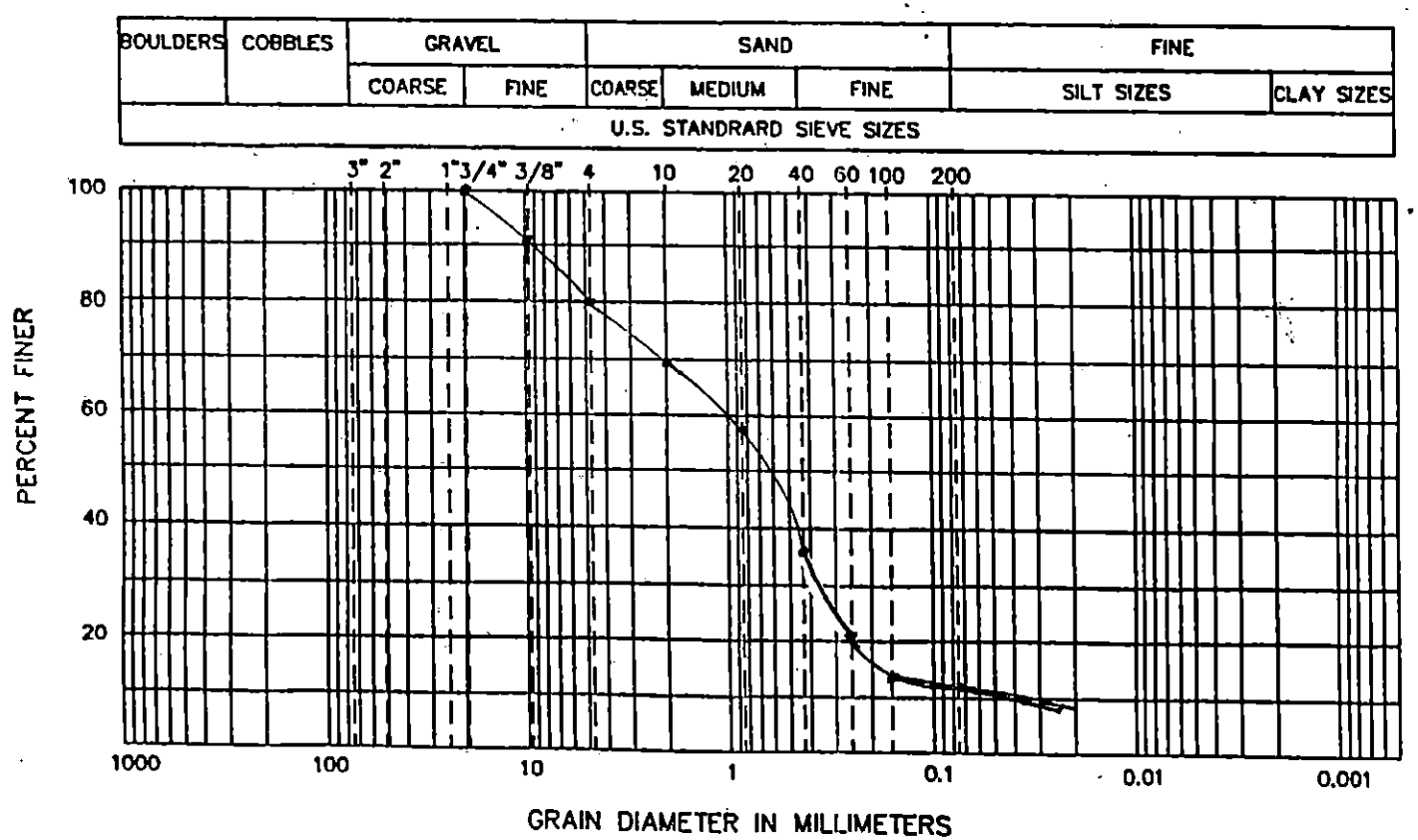
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 02 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-78 QA ID: A/R



CURVE COEFFICIENTS

(C_u) 25.0

(C_c) 2.9

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.4
3/8-in.	90.7
NO. 4	80.0
NO. 10	69.5
NO. 20	57.3
NO. 40	36.6
NO. 60	20.6
NO. 100	14.3
NO. 200	11.7

SOIL CLASSIFICATION (ASTM D 2487): SW-SM - WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 02 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-78 QA ID: PAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10459	10669	10591		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4614	4824	4746		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.8	139.9	137.6		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.7	131.0	126.7		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.1		
G	WT. OF WET SOIL & TARE	(grams)	589.0	572.6	531.7		
H	WT. OF DRY SOIL & TARE	(grams)	562.6	536.6	490.4		
I	WT. OF WATER = G - H	(grams)	26.4	36.0	41.3		
J	WT. DRY SOIL = H - F	(grams)	554.6	528.6	482.3		
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.8%	6.8%	8.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

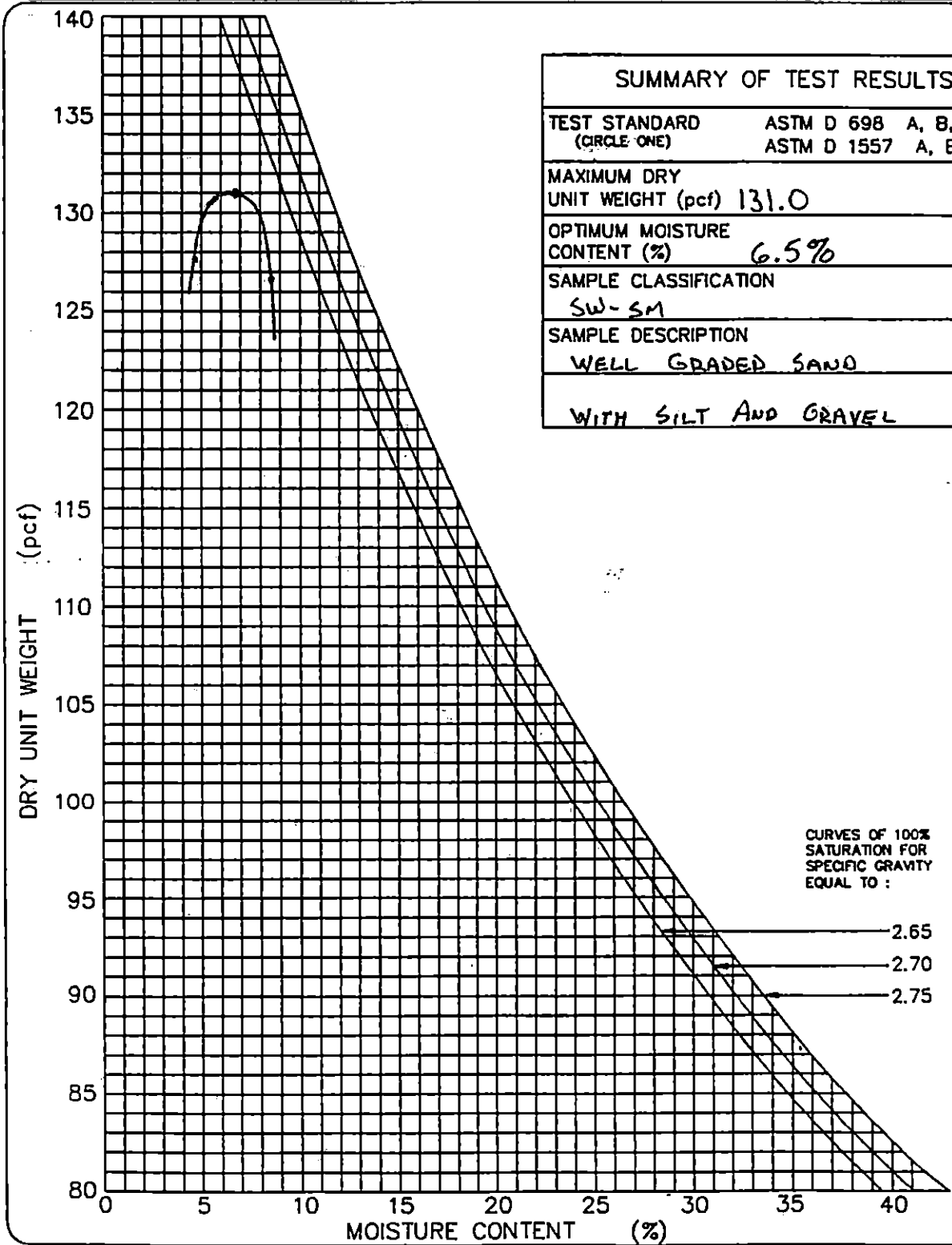
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 02 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-78 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	131.0
OPTIMUM MOISTURE CONTENT (%)	6.5%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 03 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-79 QA ID: 2/K

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1979.5	1742.2
WT. OF TARE	(grams)	19.4	16.1
WT. OF DRY SAMPLE	(grams)	1960.1	1726.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	41.1	2.1	97.9	
3/8"	9.5	110.9	5.7	94.3	
4	4.75	338.6	17.3	82.7	
10	2.0	556.0	28.4	71.6	
20	0.850	805.4	41.1	58.9	
40	0.425	1209.7	61.7	38.3	
60	0.250	1534.8	78.3	21.7	
100	0.150	1665.9	85.0	15.0	
200	0.075	1724.4	88.0	12.0	

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

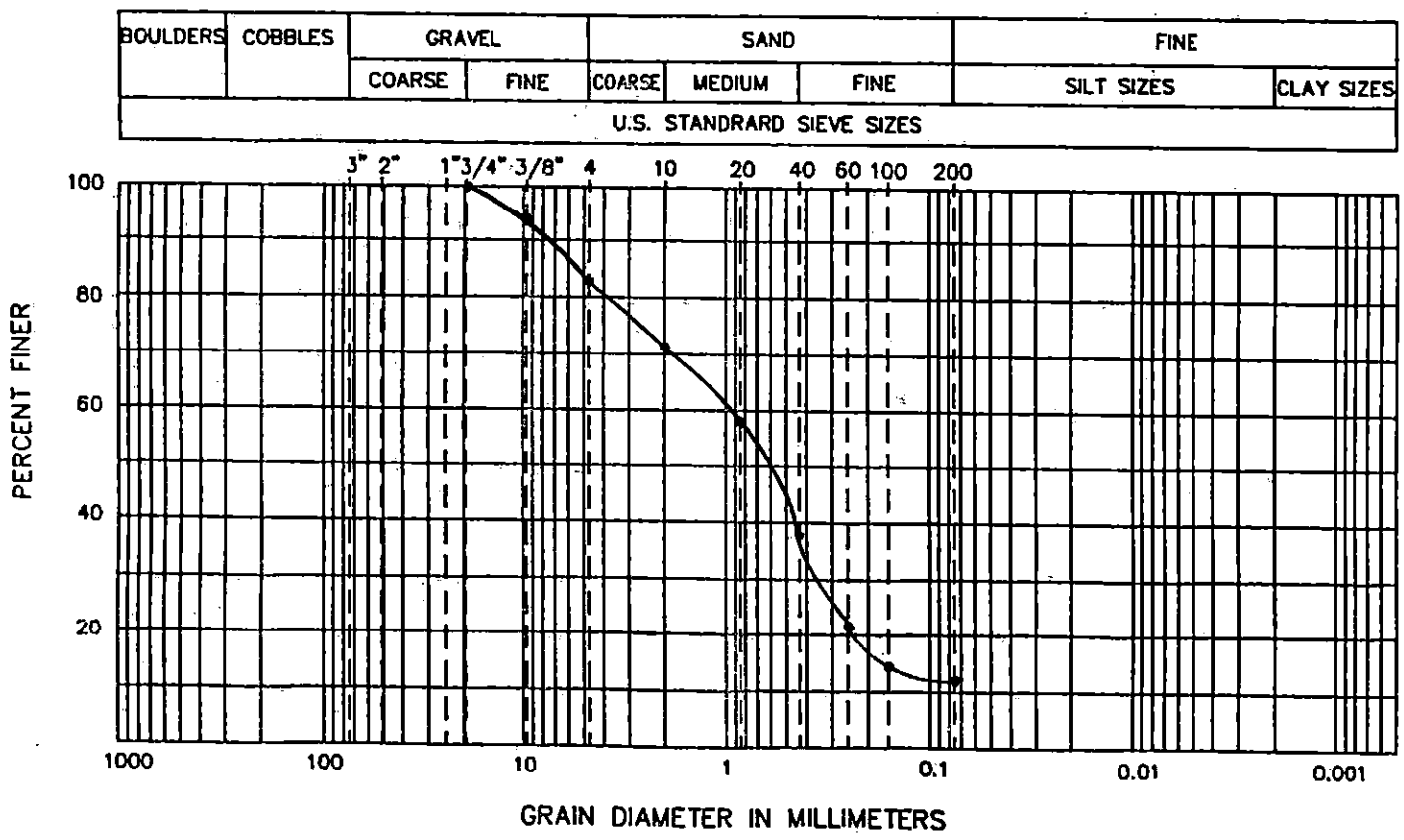
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 03 day 08 month 95 year

SAMPLE NO.: S-79 QA ID: 7A



CURVE COEFFICIENTS

(C_u) 18.4

(C_c) 2.8

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.9
3/8-in.	94.3
NO. 4	82.7
NO. 10	71.6
NO. 20	58.9
NO. 40	38.3
NO. 60	21.7
NO. 100	15.0
NO. 200	12.0

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 03 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-79 — QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10510	10629	10561		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A − B	(grams)	4665	4784	4716		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.3	138.7	136.8		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.5	130.0	126.1		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT − ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.2		
G	WT. OF WET SOIL & TARE	(grams)	561.3	555.5	598.7		
H	WT. OF DRY SOIL & TARE	(grams)	533.3	521.0	552.2		
I	WT. OF WATER = G − H	(grams)	28.0	34.5	46.5		
J	WT. DRY SOIL = H − F	(grams)	525.3	513.0	544.0		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	6.7%	8.5%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

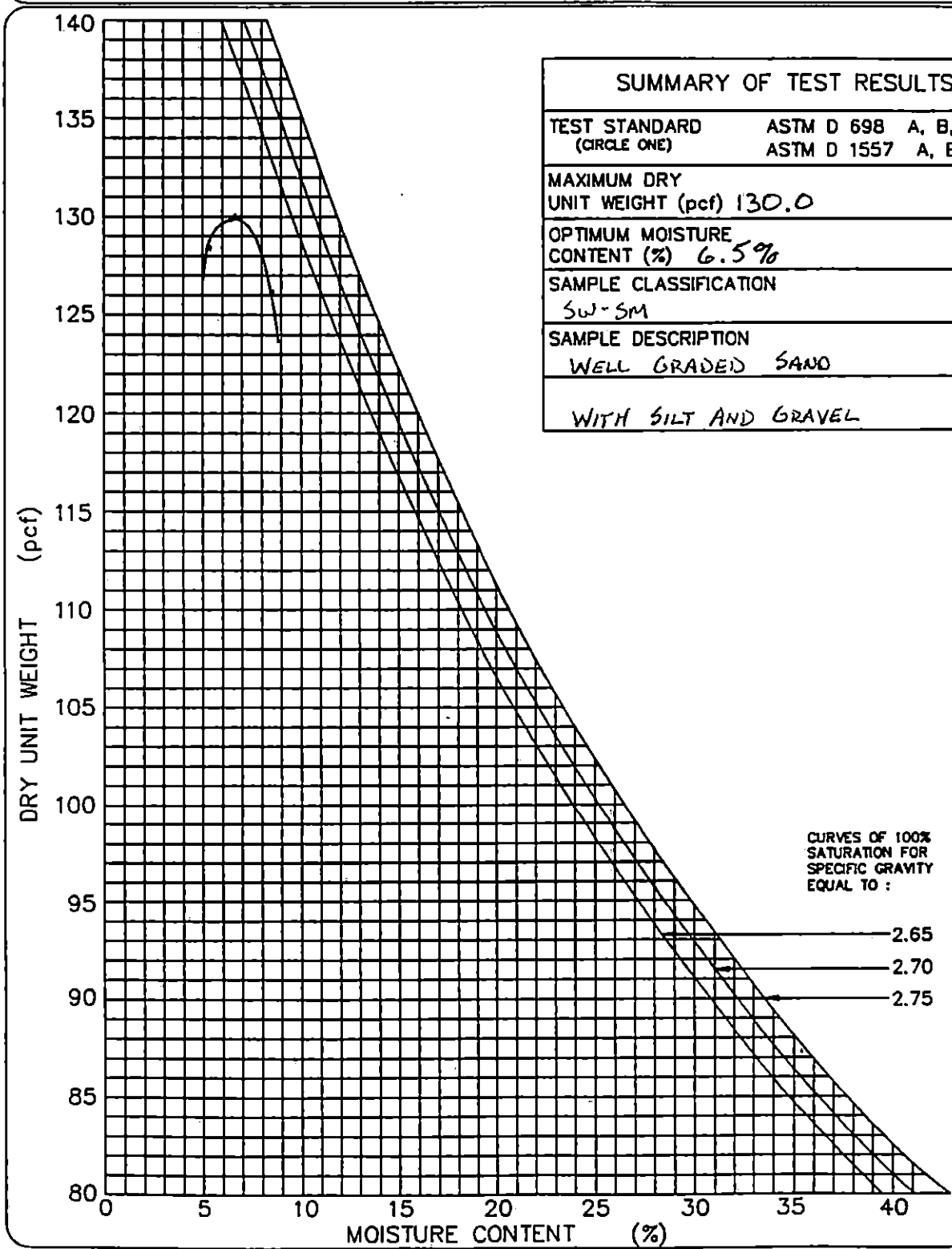
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 03 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SEL. SAMPLE NO.: S-79 QA ID: DAR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.0
OPTIMUM MOISTURE CONTENT (%)	6.5%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND
	WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 04 day 08 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-80 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1708.8	1489.8
WT. OF TARE	(grams)	19.4	15.8
WT. OF DRY SAMPLE	(grams)	1689.4	1474.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	75.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	66.1	3.9	96.1	
3/8"	9.5	156.6	9.3	90.7	
4	4.75	365.4	21.6	78.4	
10	2.0	552.1	32.7	67.3	
20	0.850	756.2	44.8	55.2	
40	0.425	1063.9	63.0	37.0	
60	0.250	1314.5	77.8	22.2	
100	0.150	1420.2	84.1	15.9	
200	0.075	1470.3	87.0	13.0	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

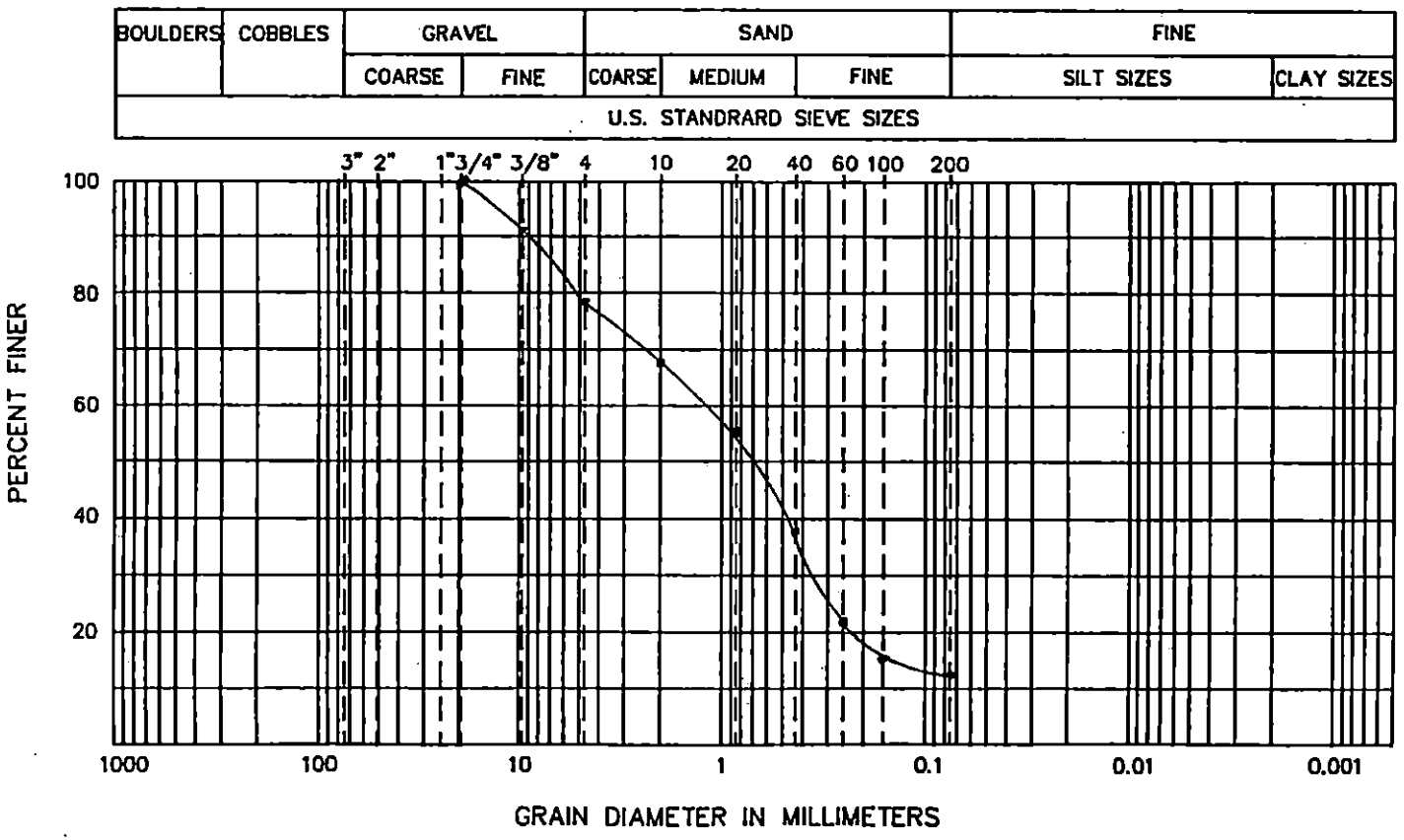
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 04 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-80 QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.1
3/8-in.	90.7
NO. 4	78.9
NO. 10	67.3
NO. 20	55.3
NO. 40	37.0
NO. 60	22.2
NO. 100	15.9
NO. 200	13.0

SOIL CLASSIFICATION (ASTM D 2487): SM- SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 04 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S80 QA ID: 21

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10519	10641	10586		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4674	4796	4741		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.5	139.1	137.5		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.7	129.2	126.3		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.1		
G	WT. OF WET SOIL & TARE	(grams)	597.4	547.7	506.1		
H	WT. OF DRY SOIL & TARE	(grams)	567.5	509.0	465.3		
I	WT. OF WATER = G - H	(grams)	29.9	38.7	40.8		
J	WT. DRY SOIL = H - F	(grams)	559.5	500.9	457.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	7.7%	8.9%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

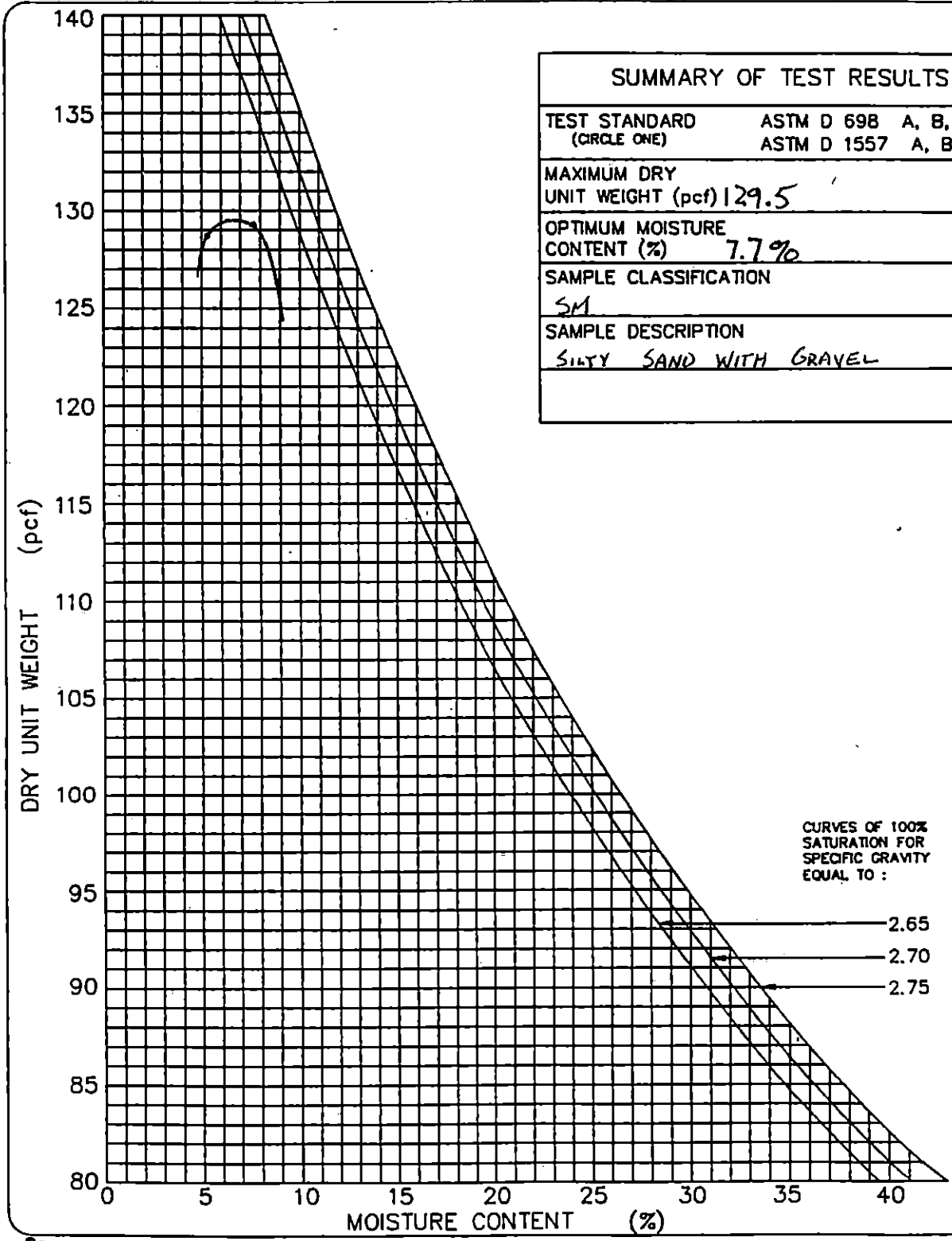
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 04 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-80 QA ID: DJR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.5
OPTIMUM MOISTURE CONTENT (%)	7.7%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-81 QA ID: JR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1936.0	1679.9
WT. OF TARE	(grams)	20.4	15.9
WT. OF DRY SAMPLE	(grams)	1915.6	1664.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	100.5	5.2	94.8	
3/8"	9.5	199.6	10.4	89.6	
4	4.75	431.9	22.5	77.5	
10	2.0	633.7	33.1	66.9	
20	0.850	882.0	46.0	54.0	
40	0.425	1313.3	68.6	31.4	
60	0.250	1550.8	81.0	19.0	
100	0.150	1632.1	85.2	14.8	
200	0.075	1662.0	86.8	13.2	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

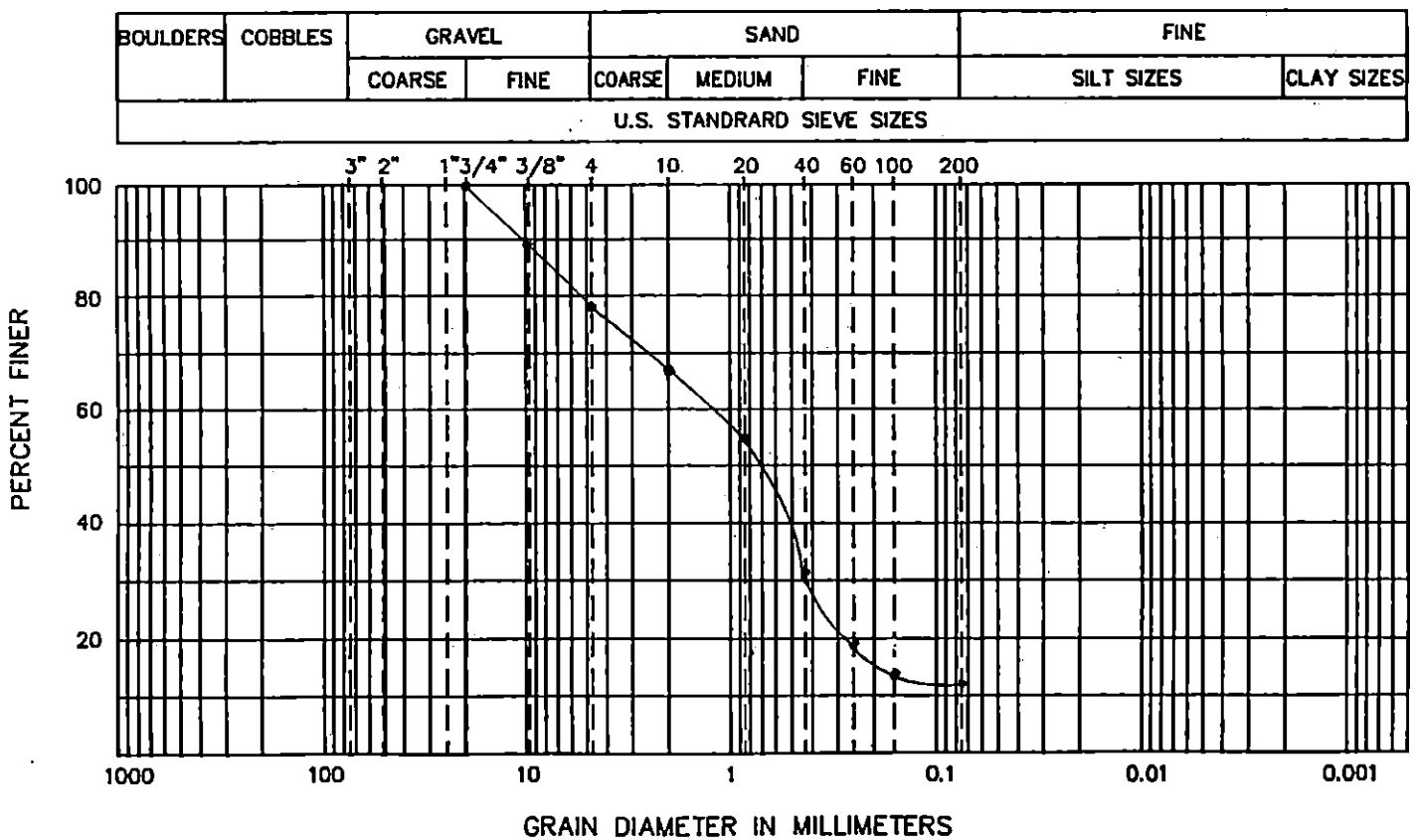
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-81 QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.8
3/8-in.	89.6
NO. 4	77.5
NO. 10	66.9
NO. 20	54.0
NO. 40	31.4
NO. 60	19.0
NO. 100	14.8
NO. 200	13.2

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-81 QA ID: 2/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10524	10621	10631		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4679	4776	4786		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.7	138.5	138.8		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	129.0	129.7	127.9		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	7.9	8.1		
G	WT. OF WET SOIL & TARE	(grams)	502.4	582.5	523.5		
H	WT. OF DRY SOIL & TARE	(grams)	477.6	545.4	482.5		
I	WT. OF WATER = G - H	(grams)	24.8	36.1	41.0		
J	WT. DRY SOIL = H - F	(grams)	469.7	537.5	474.4		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	6.7%	8.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

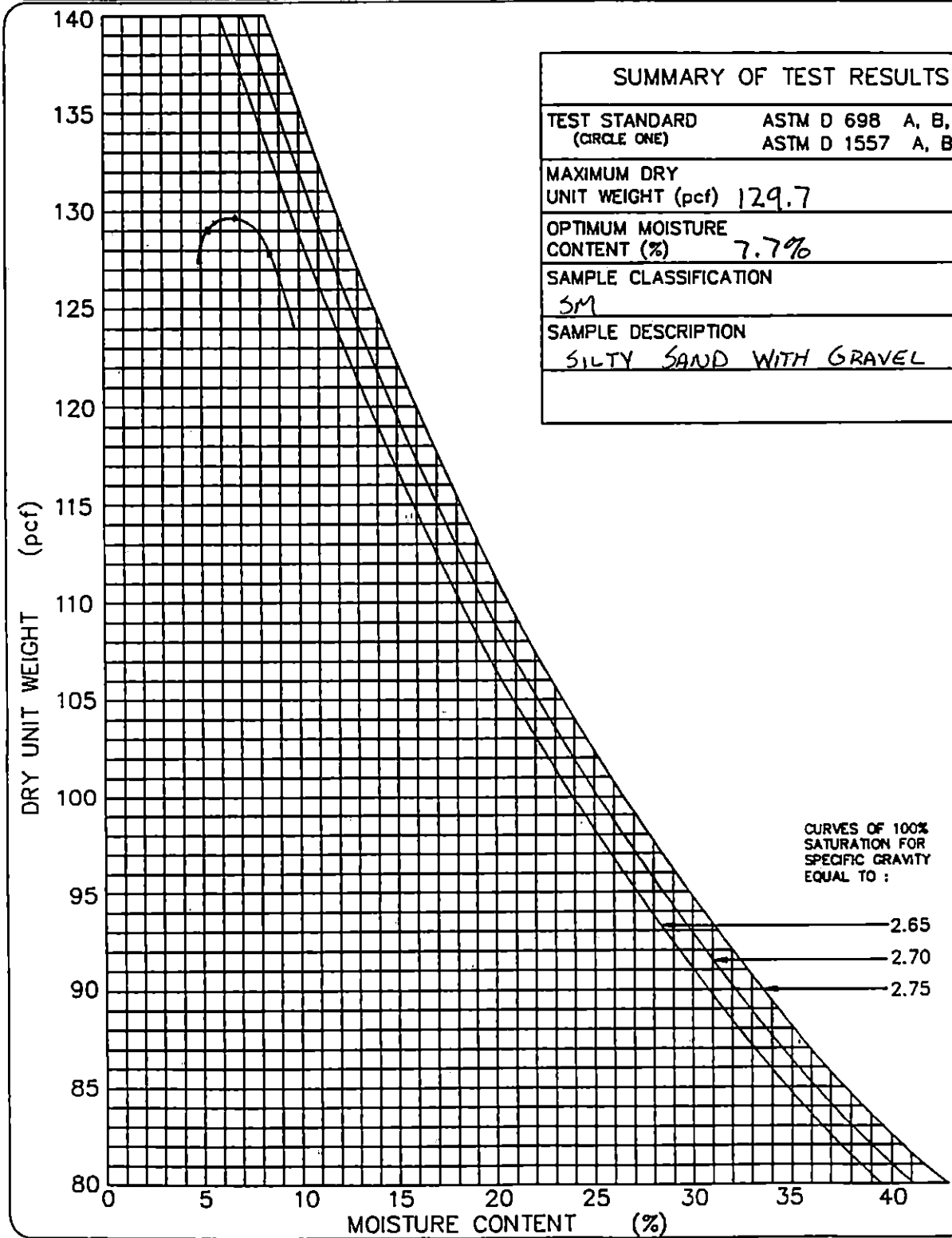
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT. SELECT SAMPLE NO.: S-81 QA ID: DJR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.7
OPTIMUM MOISTURE CONTENT (%)	7.7%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 08 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-82 QA ID: DMR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	2046.0	1776.7
WT. OF TARE	(grams)	19.4	16.0
WT. OF DRY SAMPLE	(grams)	2026.6	1760.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	103.3	5.1	94.9	
3/8"	9.5	195.9	9.7	90.3	
4	4.75	417.8	20.6	79.4	
10	2.0	627.3	31.0	69.0	
20	0.850	869.9	42.9	57.1	
40	0.425	1258.3	62.1	37.9	
60	0.250	1573.0	77.6	22.4	
100	0.150	1701.8	84.0	16.0	
200	0.075	1759.0	86.8	13.2	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

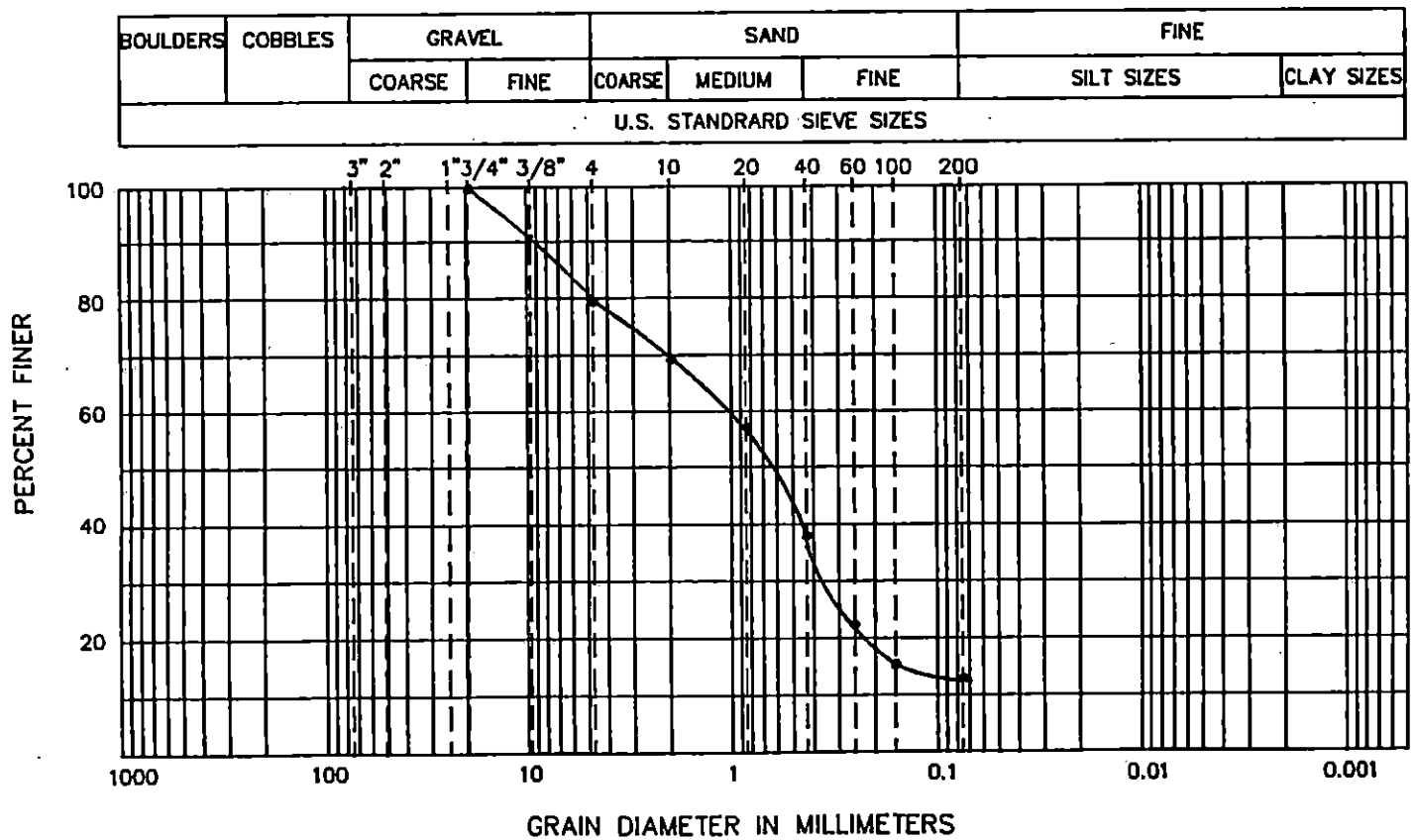
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 08 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-82 QA ID: DJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.9
3/8-in.	90.3
NO. 4	79.4
NO. 10	69.0
NO. 20	57.1
NO. 40	37.9
NO. 60	22.4
NO. 100	16.0
NO. 200	13.2

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-82 QA ID: JJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10555	10678	10652		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4710	4833	4807		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	136.6	140.2	139.4		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	129.8	131.3	128.0		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.0		
G	WT. OF WET SOIL & TARE	(grams)	593.9	516.5	514.0		
H	WT. OF DRY SOIL & TARE	(grams)	564.9	484.0	475.2		
I	WT. OF WATER = G - H	(grams)	29.0	32.5	38.8		
J	WT. DRY SOIL = H - F	(grams)	556.9	476.0	436.4		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.2%	6.8%	8.9%		

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

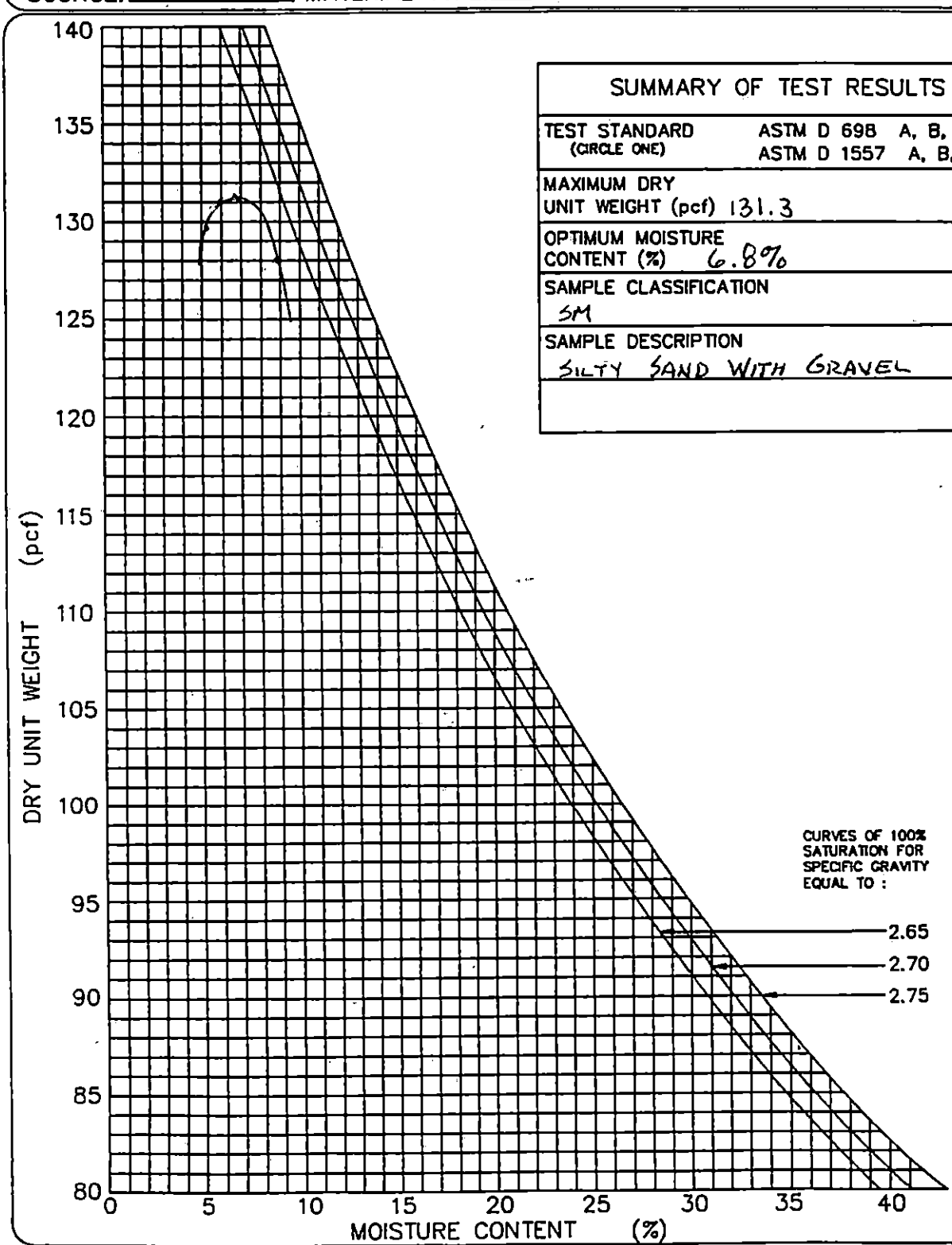
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-82 QA ID: D/T

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	131.3
OPTIMUM MOISTURE CONTENT (%)	6.8%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-83 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1876.2	1629.0
WT. OF TARE	(grams)	19.5	17.9
WT. OF DRY SAMPLE	(grams)	1856.7	1611.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	96.7	5.2	94.8	
3/8"	9.5	192.3	10.4	89.6	
4	4.75	393.5	21.2	78.8	
10	2.0	588.4	31.7	68.3	
20	0.850	889.7	47.9	52.1	
40	0.425	1329.2	71.6	28.4	
60	0.250	1515.4	81.6	18.4	
100	0.150	1582.7	85.2	14.8	
200	0.075	1609.9	86.7	13.3	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

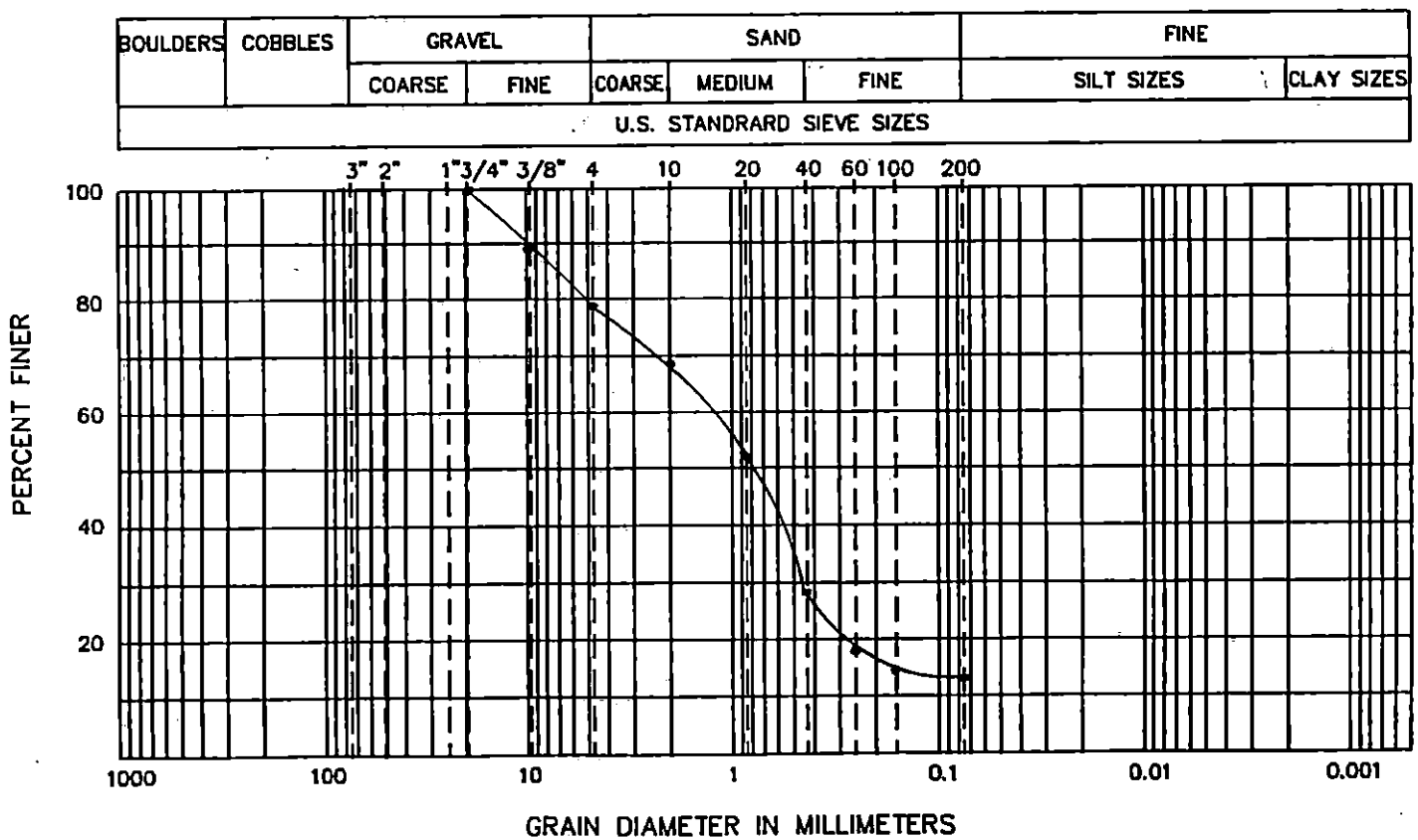
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 09 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-83 — QA ID: D/R



CURVE COEFFICIENTS

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(C_c) .....

ATTERBERG LIMITS

(LL) .....

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SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.8
3/8-in.	88.6
NO. 4	78.8
NO. 10	68.3
NO. 20	52.1
NO. 40	28.4
NO. 60	18.4
NO. 100	14.8
NO. 200	13.3

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-83 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10429	10664	10629		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4584	4819	4784		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.9	139.8	138.7		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.5	130.7	127.0		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.3		
G	WT. OF WET SOIL & TARE	(grams)	563.8	548.9	524.3		
H	WT. OF DRY SOIL & TARE	(grams)	536.7	513.7	481.0		
I	WT. OF WATER = G - H	(grams)	27.1	35.2	43.6		
J	WT. DRY SOIL = H - F	(grams)	528.7	505.7	472.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.1%	7.0%	9.2%		

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MOISTURE-DENSITY RELATIONSHIP

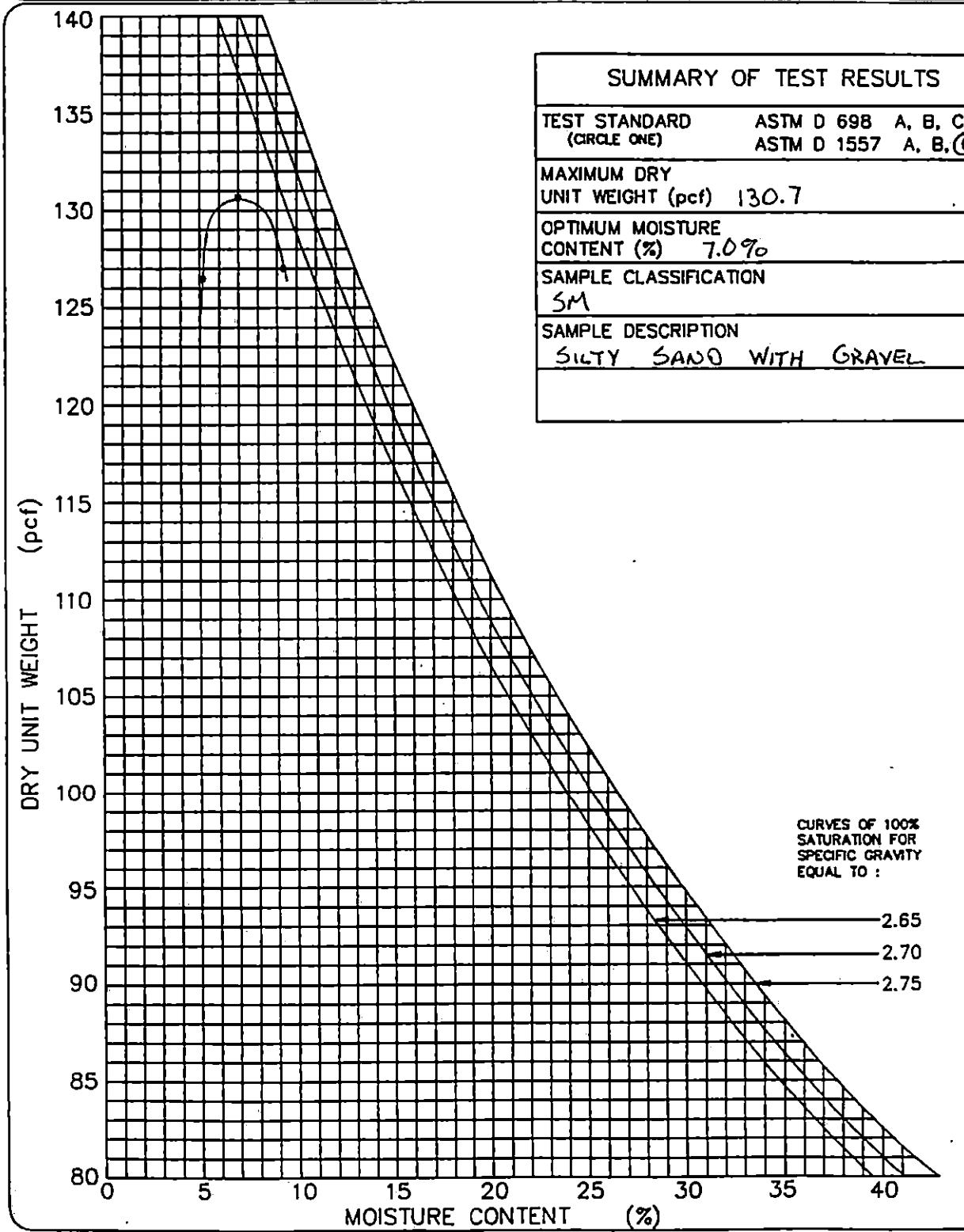
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-83 QA ID: P1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.7
OPTIMUM MOISTURE CONTENT (%)	7.0%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-84 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1962.7	1699.1
WT. OF TARE	(grams)	20.4	17.7
WT. OF DRY SAMPLE	(grams)	1942.3	1681.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	57.6	3.0	97.0	
3/8"	9.5	140.2	7.2	92.8	
4	4.75	356.8	18.4	81.6	
10	2.0	560.6	28.9	71.1	
20	0.850	797.3	41.0	59.0	
40	0.425	1178.7	60.7	39.3	
60	0.250	1487.3	76.6	23.4	
100	0.150	1618.3	83.3	16.7	
200	0.075	1678.6	86.4	13.6	

%FINER = 100 − Σ % RETAINED

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TOWN OF HUNTINGTON

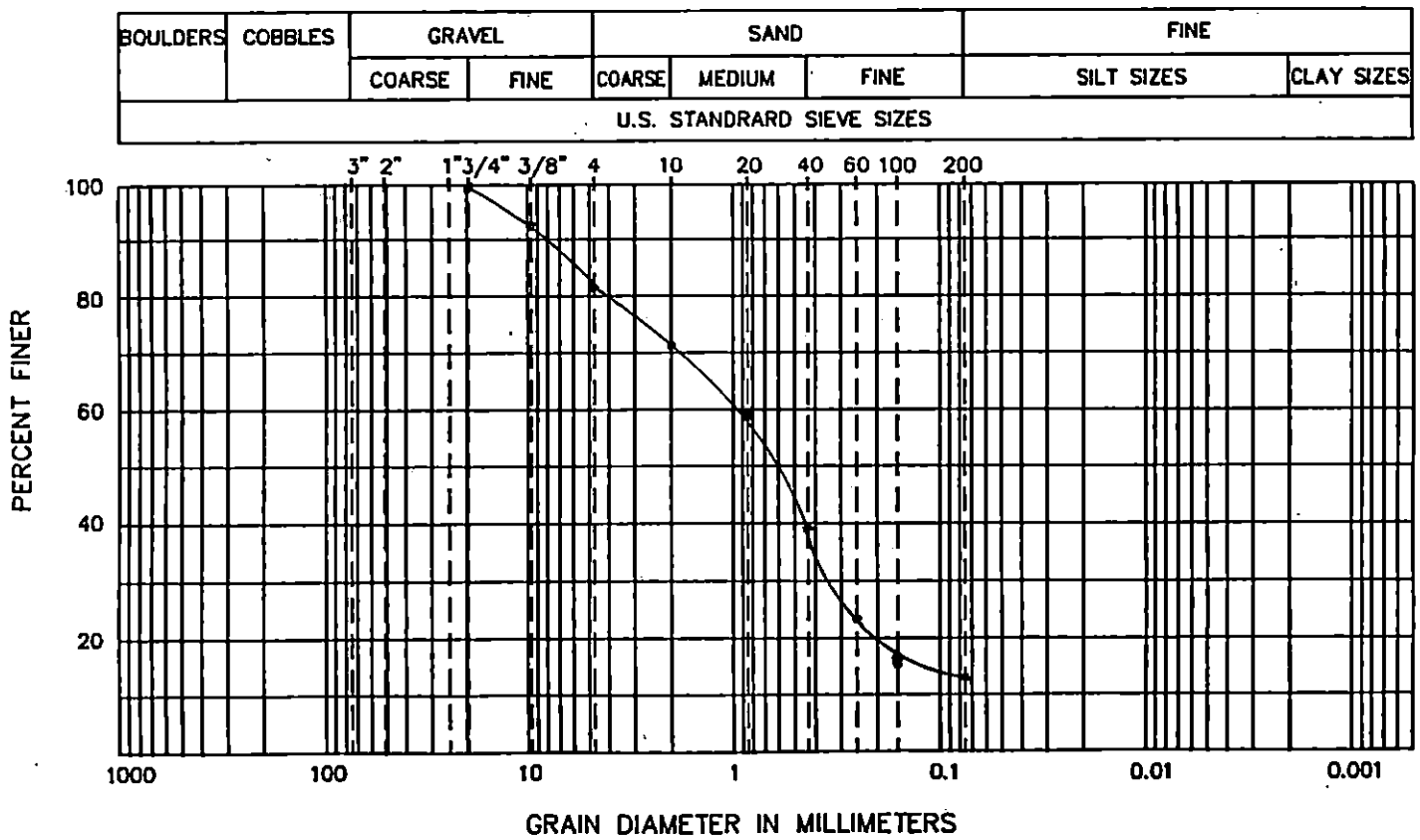
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-84 QA ID: JAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.0
3/8-in.	92.8
NO. 4	81.6
NO. 10	71.1
NO. 20	59.0
NO. 40	39.3
NO. 60	23.4
NO. 100	16.7
NO. 200	13.6

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-84 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20%
AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10509	10651	10549		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4664	4806	4704		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	135.3	139.4	136.4		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.1	128.8	124.2		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.3	8.2		
G	WT. OF WET SOIL & TARE	(grams)	540.4	525.8	497.1		
H	WT. OF DRY SOIL & TARE	(grams)	512.4	486.5	453.6		
I	WT. OF WATER = G - H	(grams)	28.0	39.3	43.5		
J	WT. DRY SOIL = H - F	(grams)	504.3	478.2	445.4		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.6%	8.2%	9.8%		

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

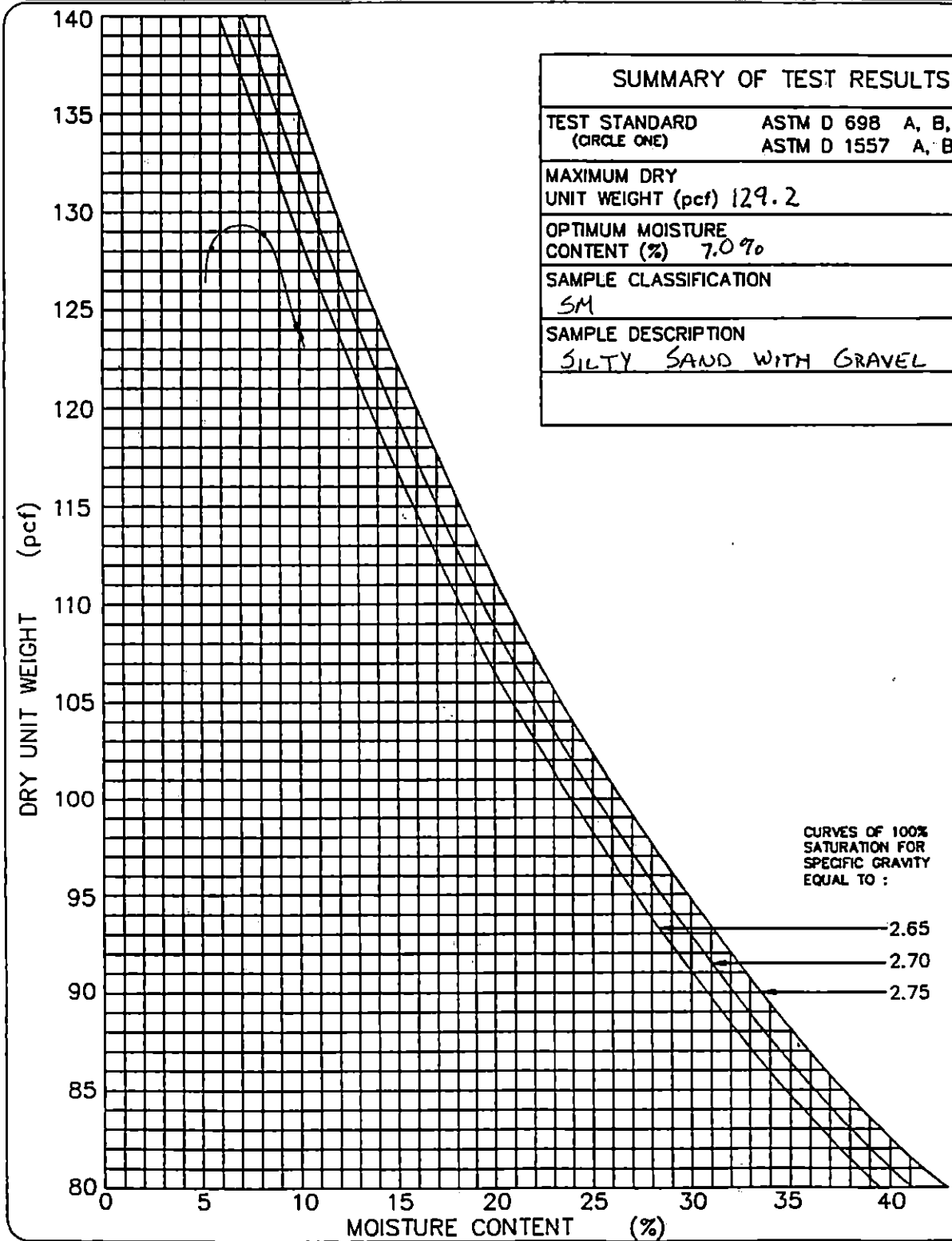
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-84 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.2
OPTIMUM MOISTURE CONTENT (%)	7.0%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 08 month 95 yea
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-85 QA ID: P1R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1943.9	1662.1
WT. OF TARE	(grams)	20.3	16.0
WT. OF DRY SAMPLE	(grams)	1923.6	1646.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	30.2	1.6	98.4	
3/8"	9.5	87.9	4.6	95.4	
4	4.75	328.6	17.1	82.9	
10	2.0	536.0	27.9	72.1	
20	0.850	765.3	39.8	60.2	
40	0.425	1132.7	58.9	41.1	
60	0.250	1439.5	74.8	25.2	
100	0.150	1578.2	82.0	18.0	
200	0.075	1644.6	85.4	14.6	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

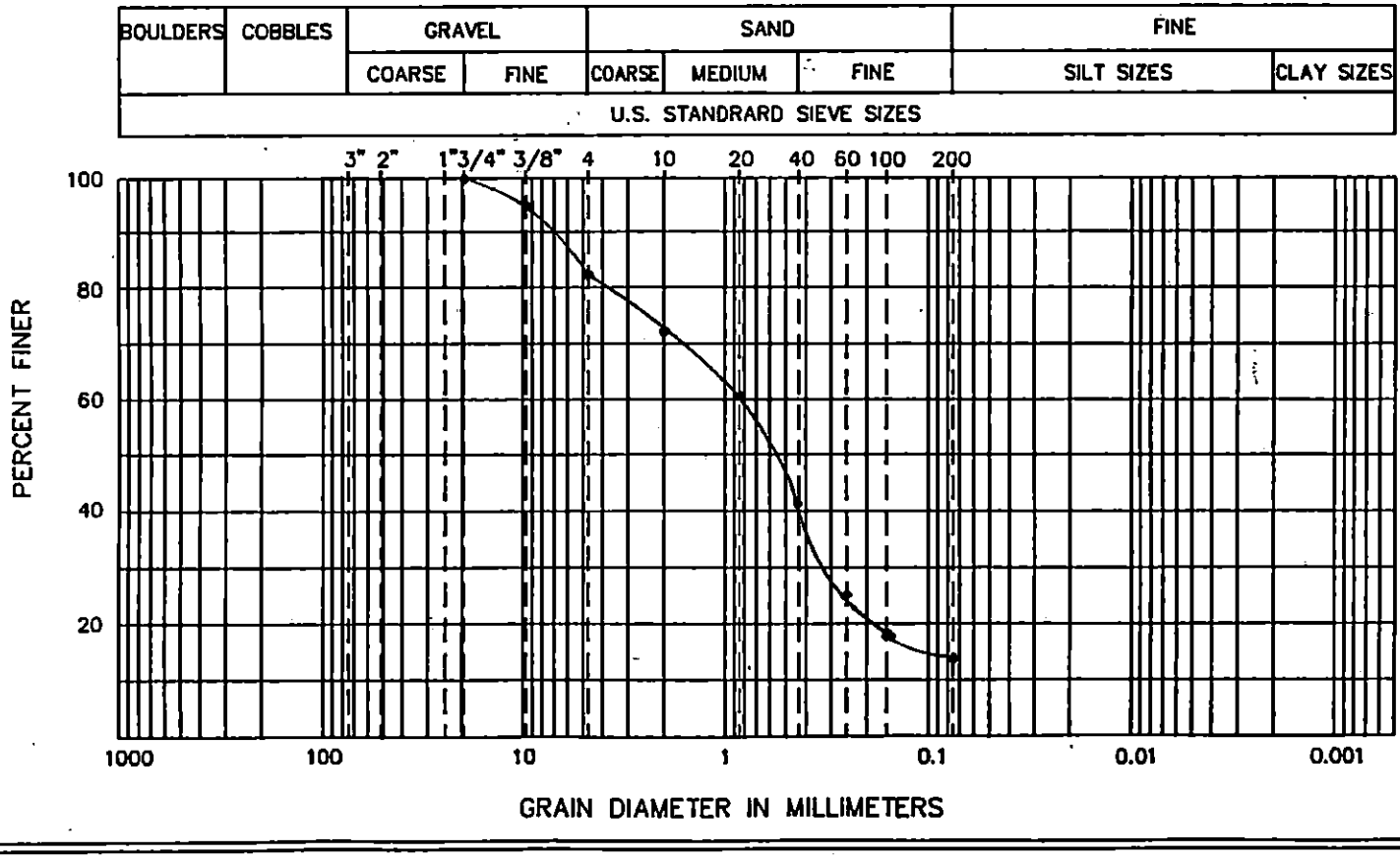
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-85 QA ID: DJR



CURVE COEFFICIENTS

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(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	98.4
3/8-in.	95.4
NO. 4	82.9
NO. 10	72.1
NO. 20	60.2
NO. 40	41.1
NO. 60	25.2
NO. 100	18.0
NO. 200	14.6

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-85 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20%
AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10461	10687	10601		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4616	4842	4756		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.9	140.4	137.9		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.5	131.1	127.0		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.2		
G	WT. OF WET SOIL & TARE	(grams)	555.2	551.9	495.8		
H	WT. OF DRY SOIL & TARE	(grams)	529.3	515.9	457.0		
I	WT. OF WATER = G - H	(grams)	25.9	36.0	38.8		
J	WT. DRY SOIL = H - F	(grams)	521.3	507.8	448.8		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.0%	7.1%	8.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

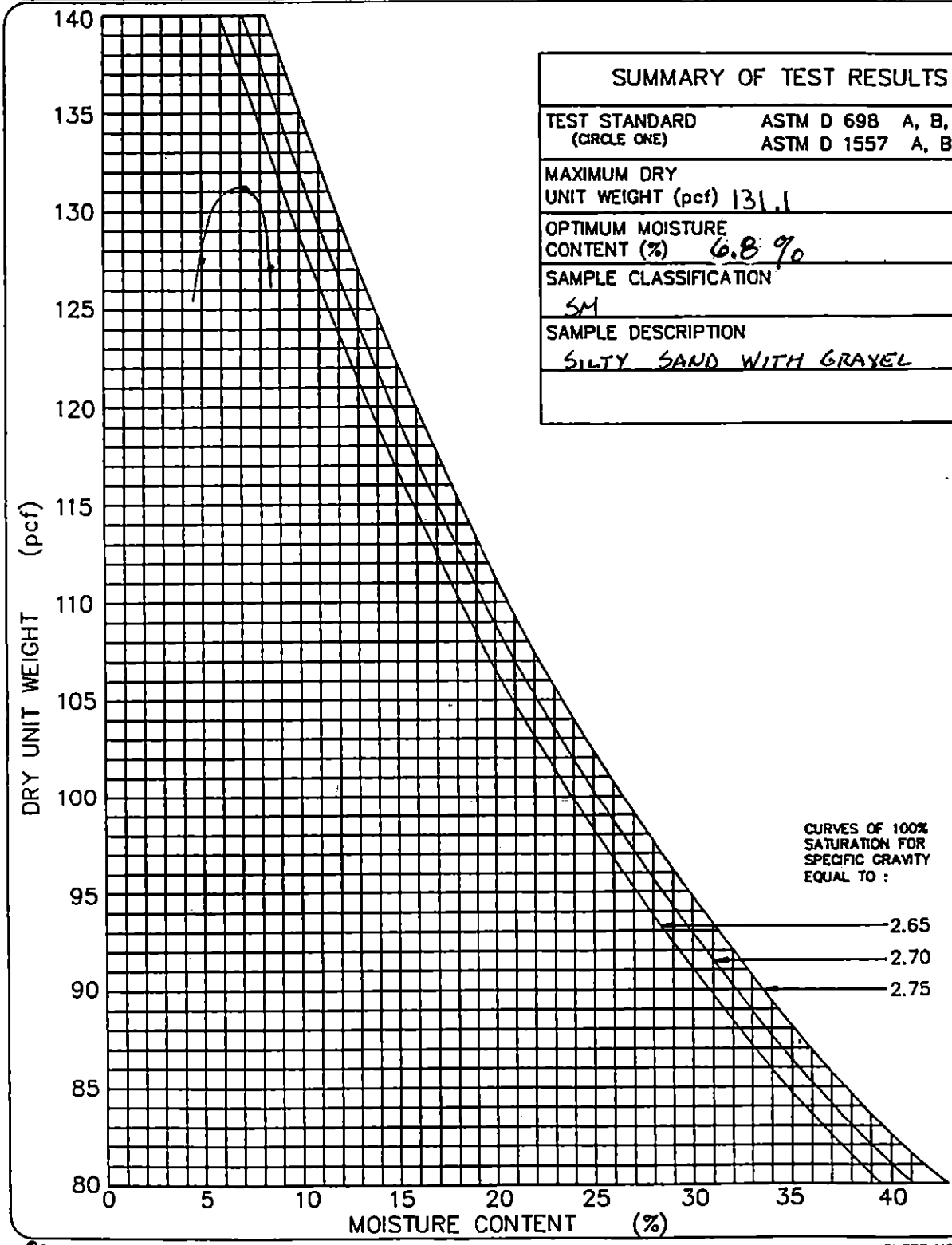
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-85 QA ID: 21R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	131.1
OPTIMUM MOISTURE CONTENT (%)	6.8 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 08 month 95 yea

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-86 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1867.7	1604.0
WT. OF TARE	(grams)	19.4	16.0
WT. OF DRY SAMPLE	(grams)	1848.3	1588.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	73.1	4.0	96.0	
3/8"	9.5	169.7	9.2	90.8	
4	4.75	379.1	20.5	79.5	
10	2.0	571.9	30.9	69.1	
20	0.850	786.7	42.6	57.4	
40	0.425	1132.3	61.3	38.7	
60	0.250	1413.1	76.5	23.5	
100	0.150	1530.8	82.8	17.2	
200	0.075	1585.9	85.8	14.2	

%FINER = 100 - Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

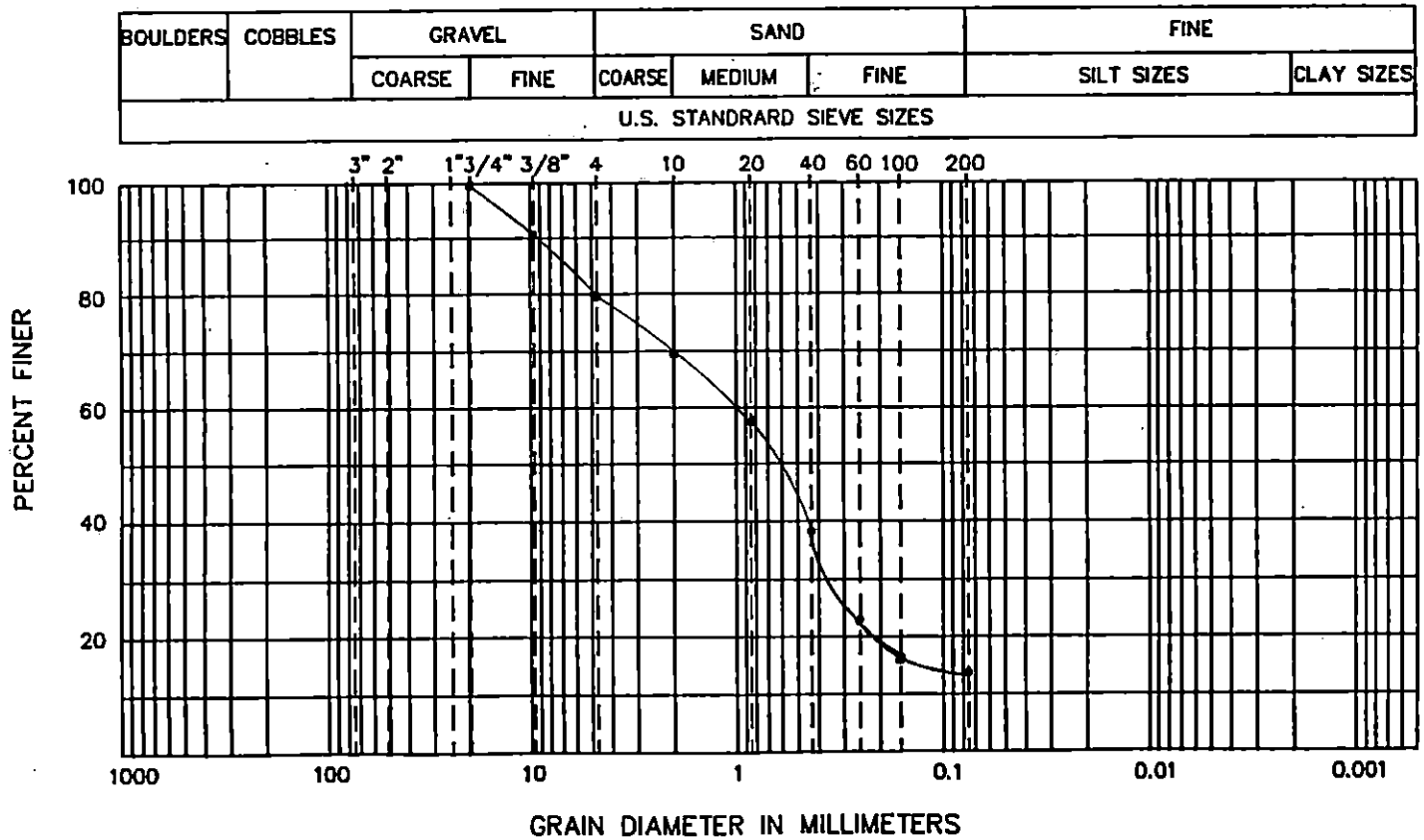
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 14 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-86 — QA ID: DAR



CURVE COEFFICIENTS

(C_U) .....

(C_C) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.0
3/8-in.	90.8
NO. 4	79.5
NO. 10	69.1
NO. 20	57.4
NO. 40	38.7
NO. 60	23.5
NO. 100	17.2
NO. 200	14.2

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-86 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20%
AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10450	10679	10542		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4605	4834	4697		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.5	140.2	136.2		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.4	131.3	124.0		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.2	8.2		
G	WT. OF WET SOIL & TARE	(grams)	521.4	573.6	537.2		
H	WT. OF DRY SOIL & TARE	(grams)	497.9	537.6	489.9		
I	WT. OF WATER = G - H	(grams)	23.5	36.0	47.3		
J	WT. DRY SOIL = H - F	(grams)	489.8	529.4	481.7		
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.8%	6.8%	9.8%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

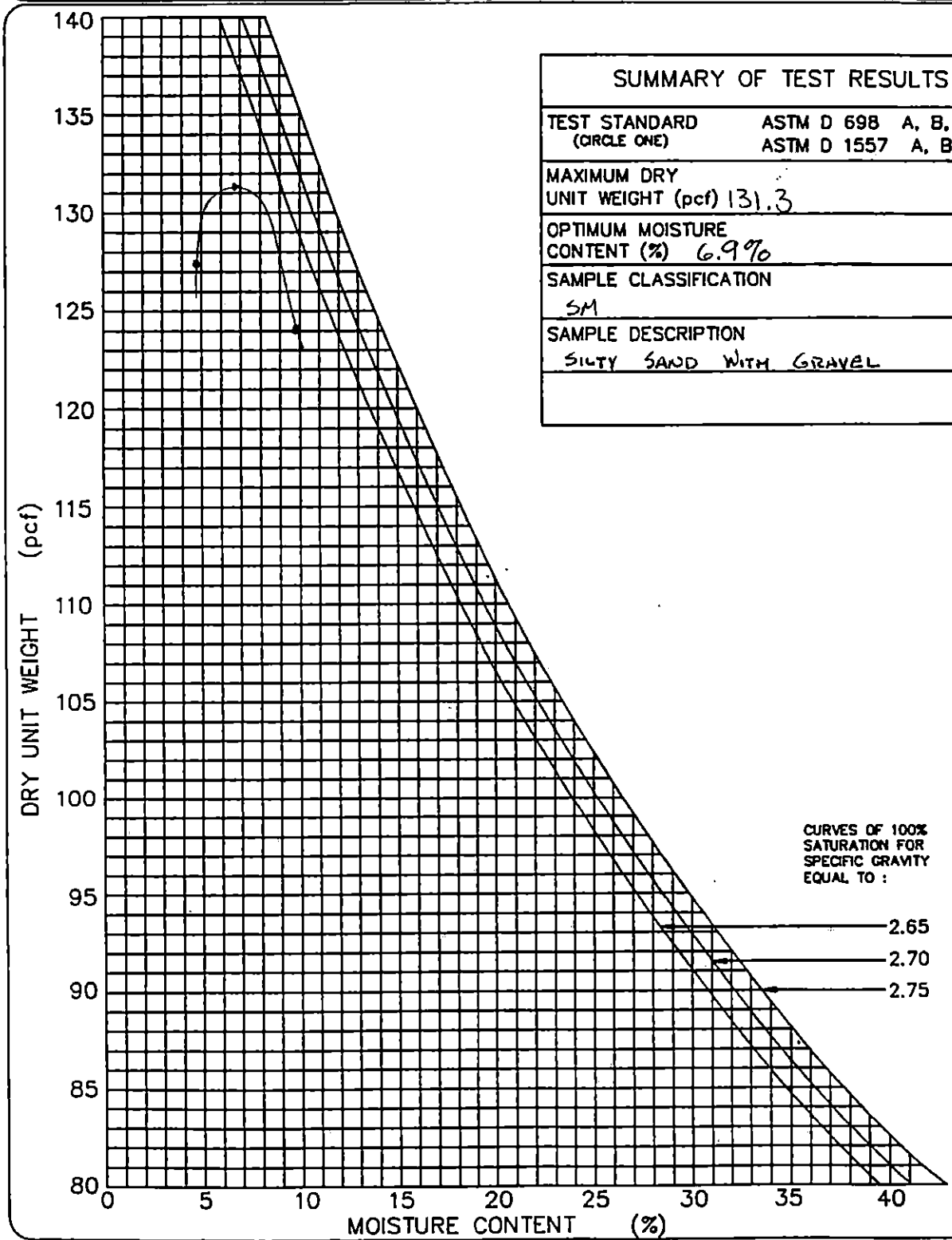
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-86 QA ID: 21R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	131.3
OPTIMUM MOISTURE CONTENT (%)	6.9%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 08 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-87 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1907.8	1636.2
WT. OF TARE	(grams)	20.5	15.9
WT. OF DRY SAMPLE	(grams)	1887.3	1620.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	72.0	3.8	96.2	
3/8"	9.5	151.7	8.0	92.0	
4	4.75	326.7	17.3	82.7	
10	2.0	526.9	27.9	72.1	
20	0.850	753.6	39.9	60.1	
40	0.425	1112.4	58.9	41.1	
60	0.250	1413.1	74.9	25.1	
100	0.150	1547.5	82.0	18.0	
200	0.075	1617.7	85.7	14.3	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

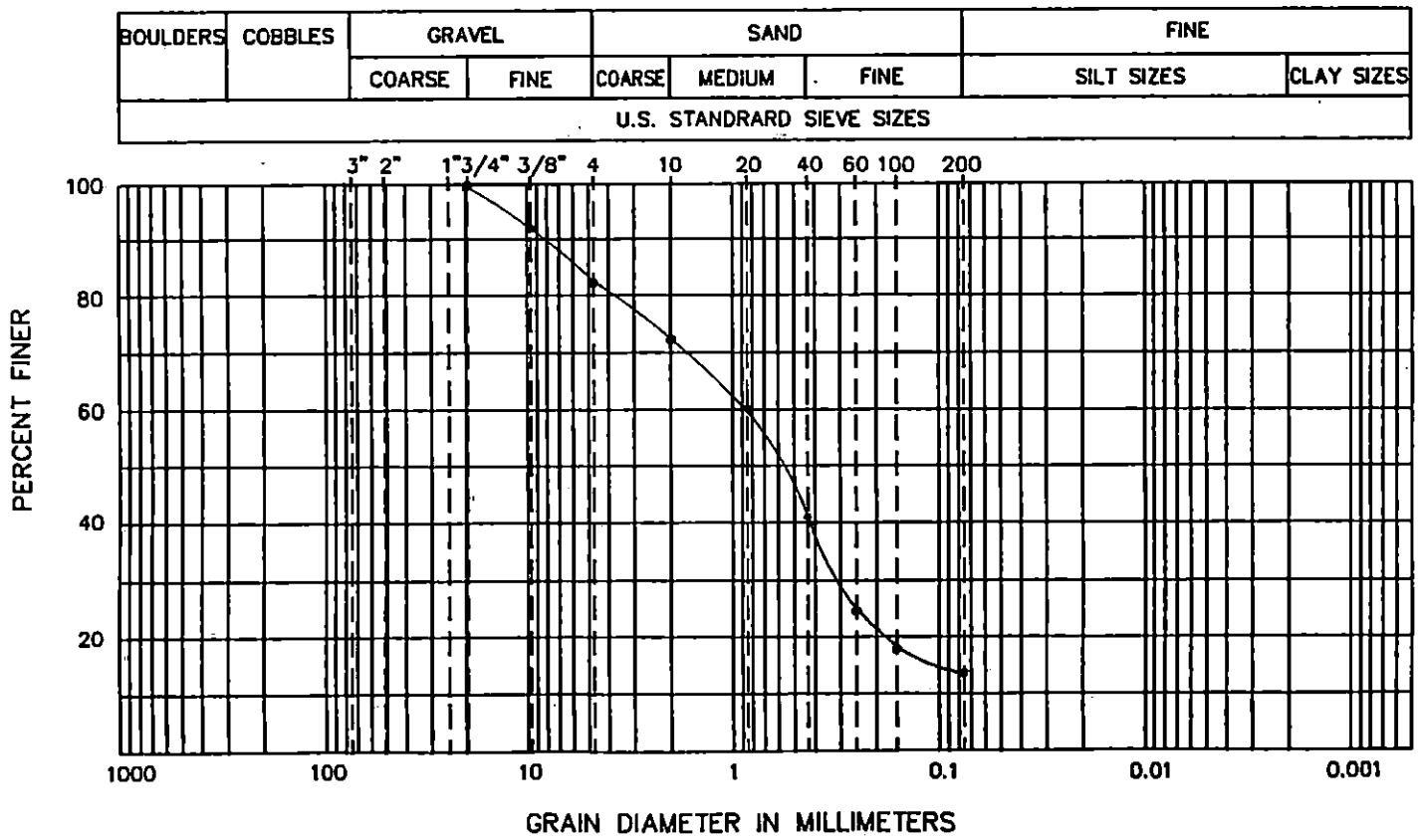
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-87 QA ID: P/R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.2
3/8-in.	92.6
NO. 4	82.7
NO. 10	72.1
NO. 20	60.1
NO. 40	41.1
NO. 60	25.1
NO. 100	18.0
NO. 200	14.3

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-B7 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10497	10640	10580		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4652	4795	4735		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	134.9	139.1	137.3		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.7	129.6	125.5		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.1		
G	WT. OF WET SOIL & TARE	(grams)	528.4	589.2	497.4		
H	WT. OF DRY SOIL & TARE	(grams)	500.6	549.6	455.3		
I	WT. OF WATER = G - H	(grams)	27.8	39.6	42.1		
J	WT. DRY SOIL = H - F	(grams)	492.6	541.5	447.2		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.6%	7.3%	9.4%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

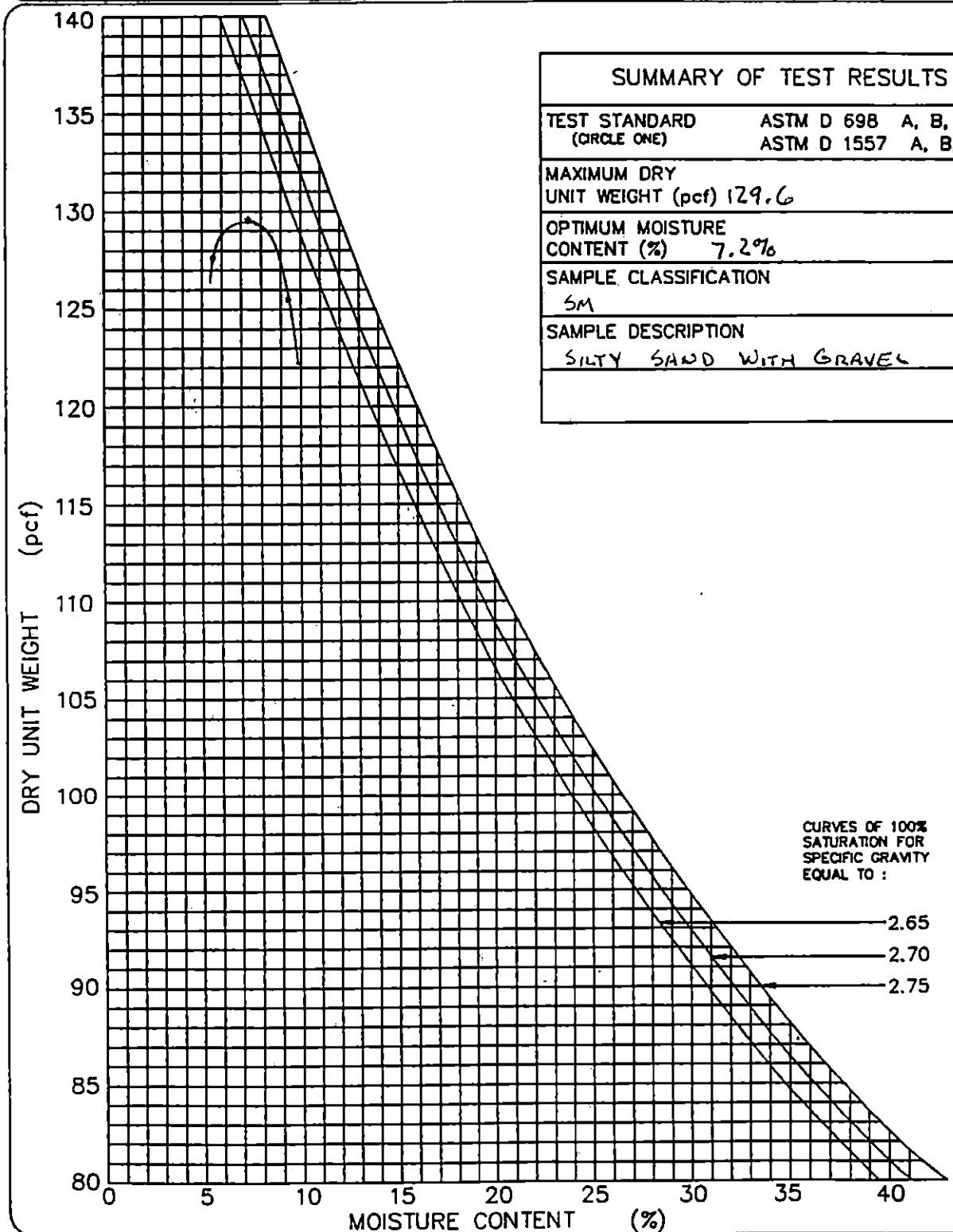
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-87 QA ID: JR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.6
OPTIMUM MOISTURE CONTENT (%)	7.2%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 08 month 95 yea

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-88 QA ID: ≥ 1.17

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1907.1	1584.2
WT. OF TARE	(grams)	17.9	15.9
WT. OF DRY SAMPLE	(grams)	1889.2	1568.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	70.5	3.7	96.3	
3/8"	9.5	165.5	8.8	91.2	
4	4.75	336.0	17.8	82.2	
10	2.0	510.0	27.0	73.0	
20	0.850	713.1	37.7	62.3	
40	0.425	1067.6	56.5	43.5	
60	0.250	1368.7	72.4	27.6	
100	0.150	1502.4	79.5	20.5	
200	0.075	1566.4	82.9	17.1	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

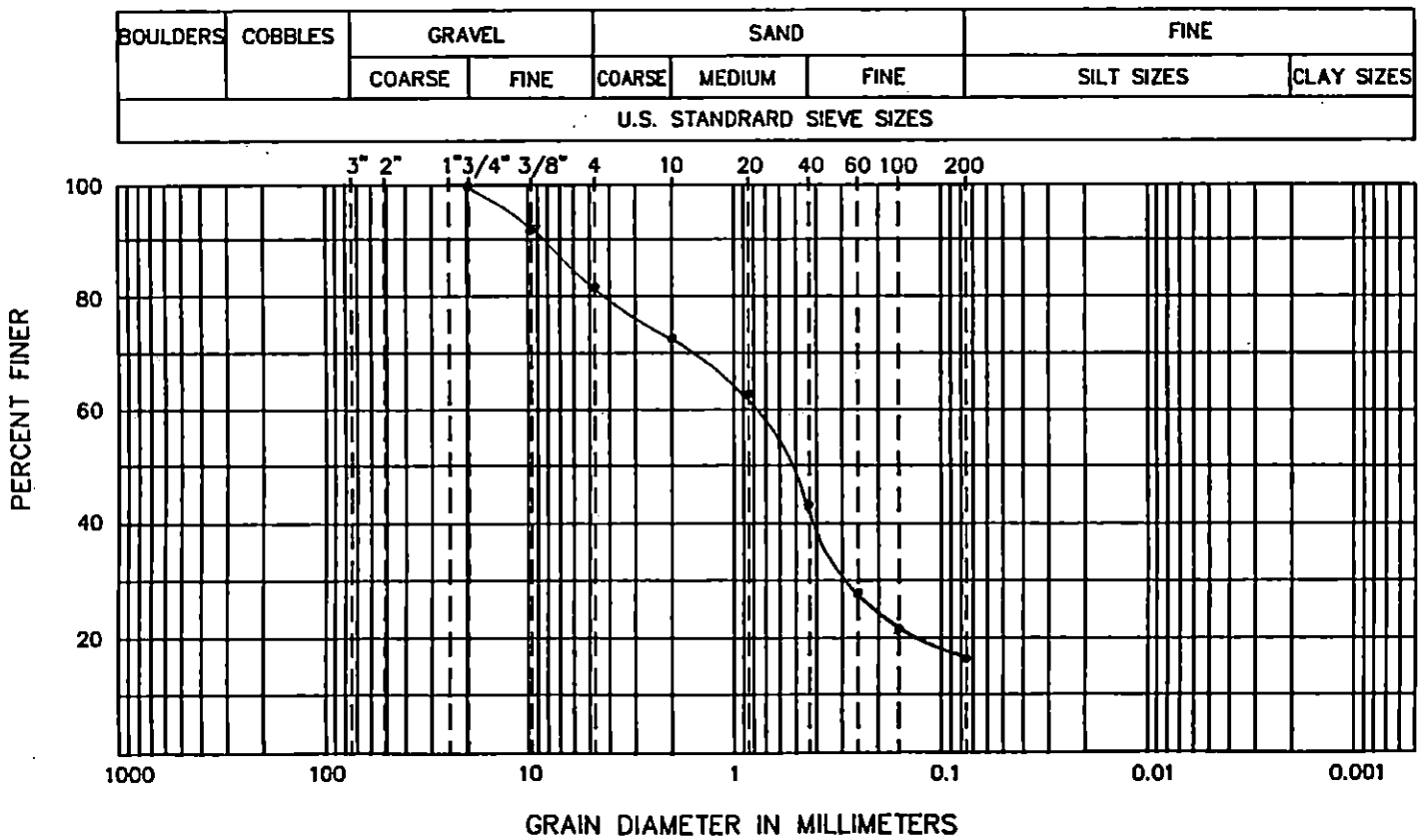
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 16 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-88 — QA ID: JTR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.3
3/8-in.	91.2
NO. 4	82.2
NO. 10	73.0
NO. 20	62.3
NO. 40	43.5
NO. 60	27.6
NO. 100	20.5
NO. 200	17.1

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-88 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10574	10688	10550		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4729	4843	4705		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	137.1	140.4	136.4		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	130.0	130.9	125.6		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.0	8.2		
G	WT. OF WET SOIL & TARE	(grams)	587.6	524.5	584.8		
H	WT. OF DRY SOIL & TARE	(grams)	557.2	489.7	539.2		
I	WT. OF WATER = G - H	(grams)	30.4	34.8	45.6		
J	WT. DRY SOIL = H - F	(grams)	549.1	481.7	531.0		
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.5%	7.2%	8.6%		

GeoSyntec Consultants

TOWN OF HUNTINGTON

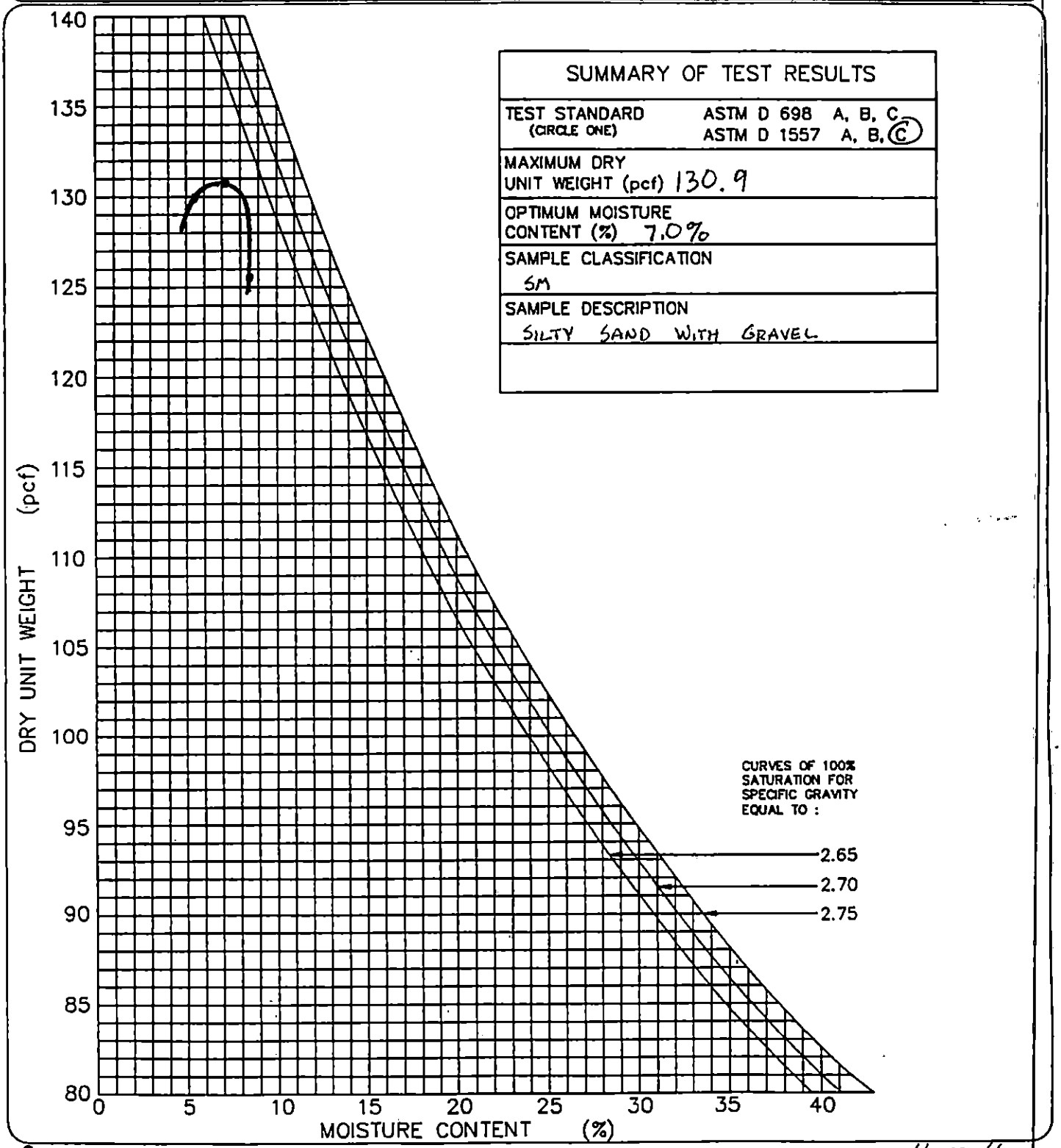
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTI SELECT SAMPLE NO.: S-88 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.9
OPTIMUM MOISTURE CONTENT (%)	7.0%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 08 month 95 yea

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-89 QA ID: 2/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1797.7	1500.8
WT. OF TARE	(grams)	17.9	16.0
WT. OF DRY SAMPLE	(grams)	1779.8	1484.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	50.5	2.8	97.2	
3/8"	9.5	117.6	6.6	93.4	
4	4.75	287.6	16.2	83.8	
10	2.0	454.4	25.5	74.5	
20	0.850	662.5	37.2	62.8	
40	0.425	1045.3	58.7	41.3	
60	0.250	1318.5	74.1	25.9	
100	0.150	1435.1	80.6	19.4	
200	0.075	1484.0	83.4	16.6	

%FINER = 100 − Σ % RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

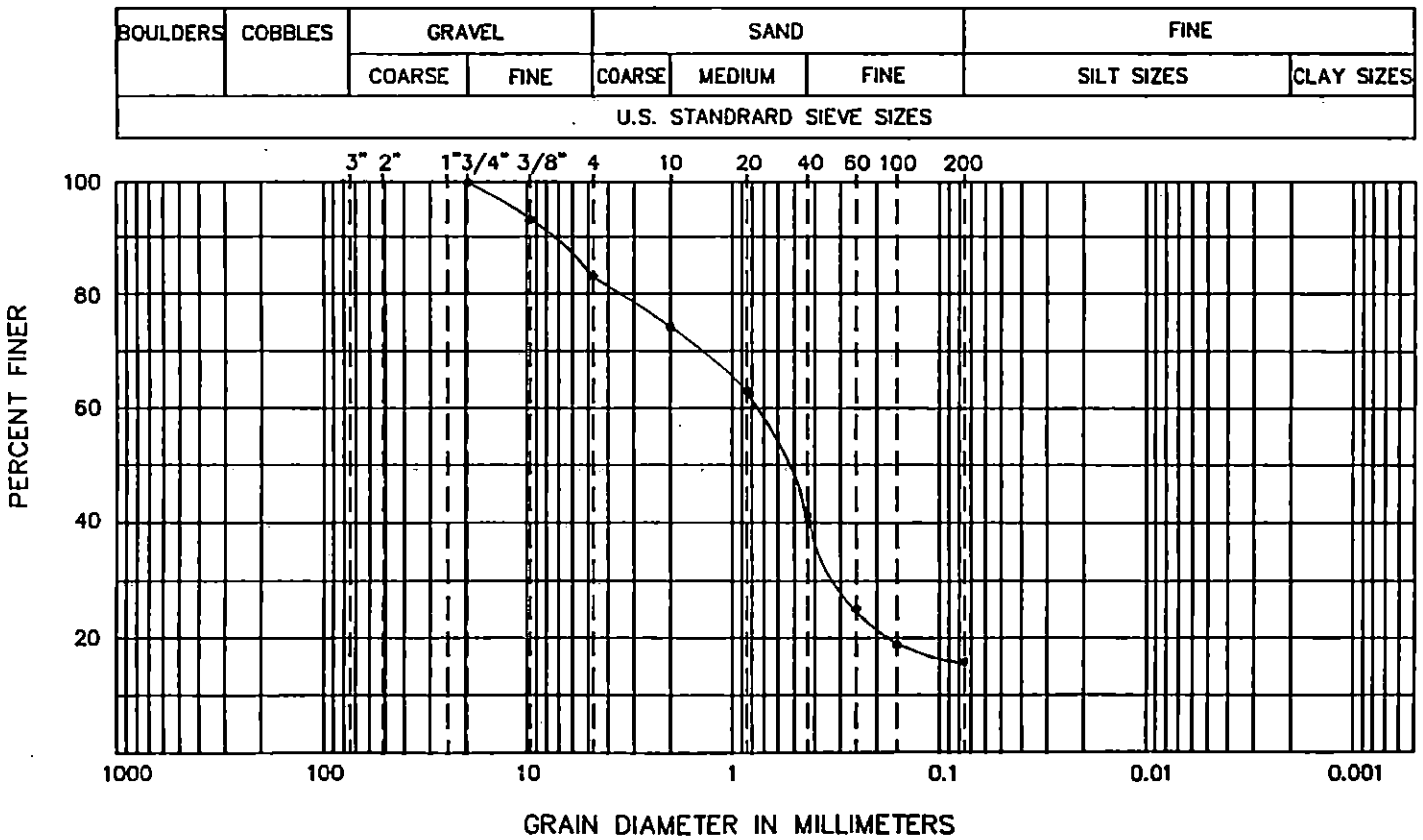
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-89 QA ID: DJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.2
3/8-in.	93.4
NO. 4	83.8
NO. 10	74.5
NO. 20	62.8
NO. 40	41.3
NO. 60	25.9
NO. 100	19.4
NO. 200	16.6

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-89 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10498	10730	10721		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4653	4885	4876		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	134.9	141.7	141.4		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	128.6	132.7	130.2		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.0	8.1		
G	WT. OF WET SOIL & TARE	(grams)	479.1	540.6	573.1		
H	WT. OF DRY SOIL & TARE	(grams)	457.2	506.6	528.4		
I	WT. OF WATER = G - H	(grams)	21.9	34.0	44.7		
J	WT. DRY SOIL = H - F	(grams)	449.1	498.6	520.3		
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.9%	6.8%	8.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

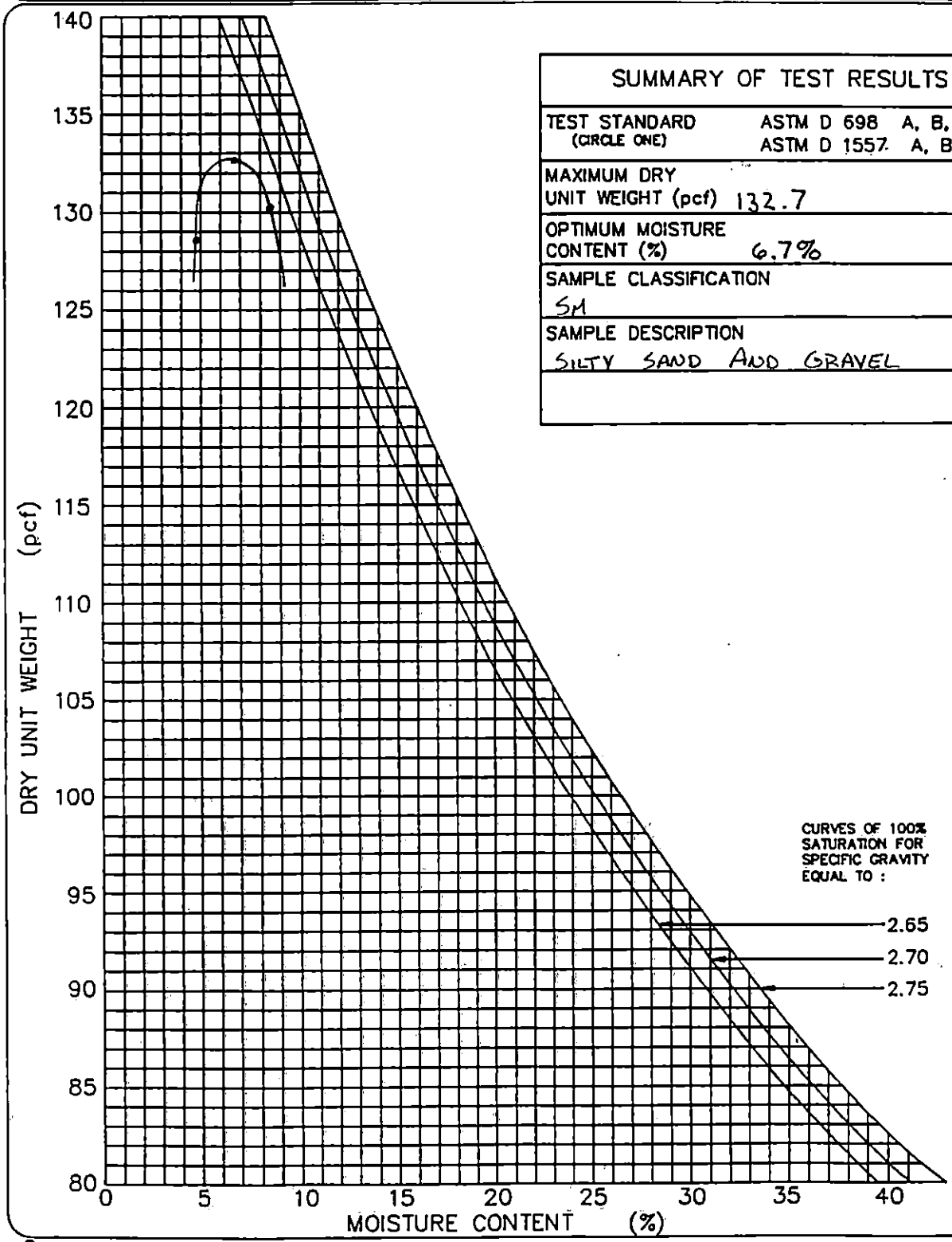
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT. SELECT SAMPLE NO.: S-89 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	132.7
OPTIMUM MOISTURE CONTENT (%)	6.7%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-90 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1893.5	1610.6
WT. OF TARE	(grams)	17.8	17.8
WT. OF DRY SAMPLE	(grams)	1875.7	1592.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	97.5	5.2	94.8	
3/8"	9.5	162.7	8.7	91.3	
4	4.75	354.0	18.9	81.1	
10	2.0	531.7	28.3	71.7	
20	0.850	751.3	40.1	59.9	
40	0.425	1131.3	60.3	39.7	
60	0.250	1416.0	75.5	24.5	
100	0.150	1536.7	81.9	18.1	
200	0.075	1591.5	84.8	15.2	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

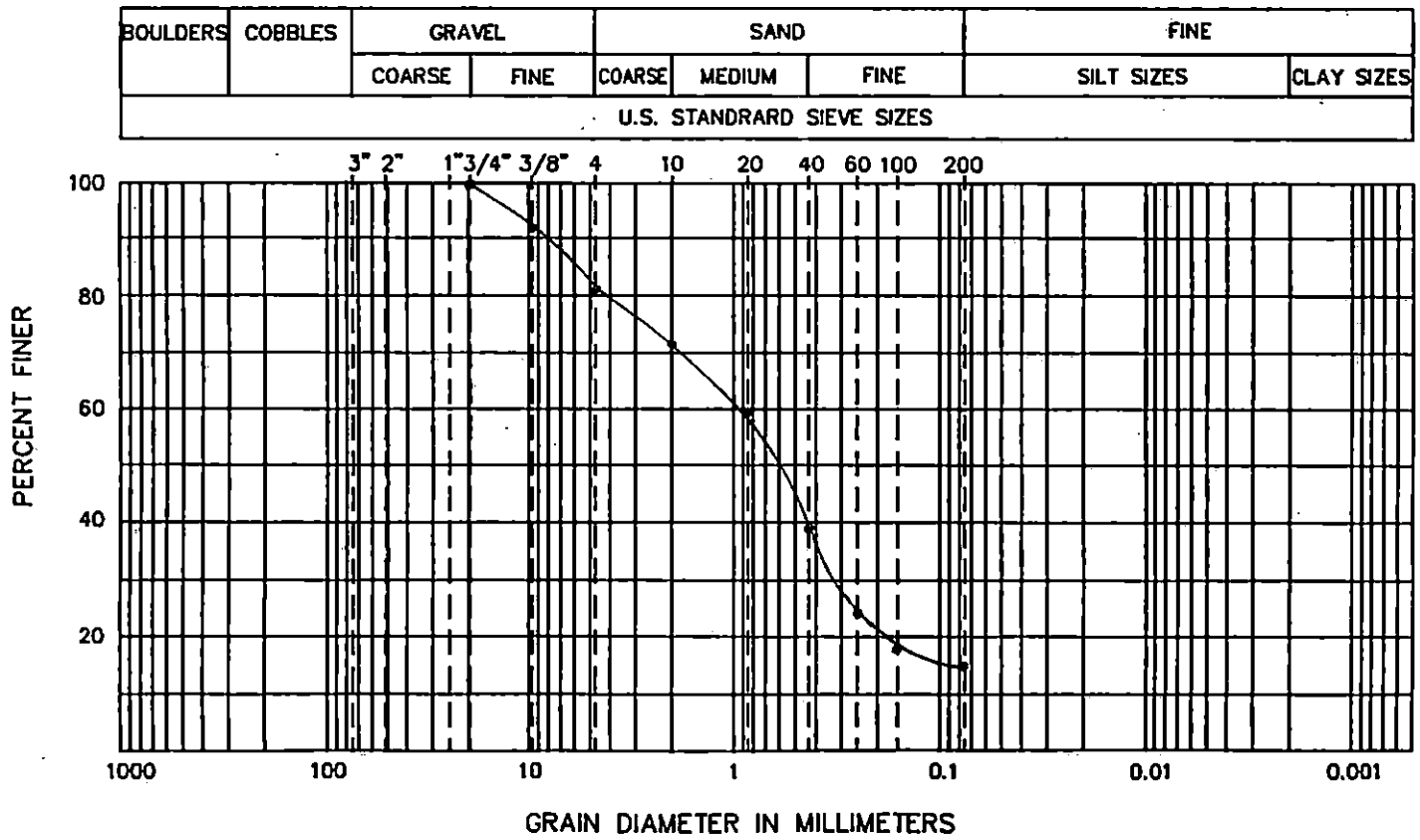
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 18 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-90 — QA ID: PMK



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.8
3/8-in.	91.3
NO. 4	81.1
NO. 10	71.7
NO. 20	59.9
NO. 40	39.7
NO. 60	24.5
NO. 100	18.1
NO. 200	15.2

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-90 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10412	10711	10552		
B	WT. OF MOLD	(grams)	5845	5845	5845		
C	WT. OF SOIL = A - B	(grams)	4567	4866	4707		
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.4	141.1	136.5		
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.5	132.2	124.5		

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.1		
G	WT. OF WET SOIL & TARE	(grams)	599.9	543.6	518.7		
H	WT. OF DRY SOIL & TARE	(grams)	573.2	510.2	474.0		
I	WT. OF WATER = G - H	(grams)	26.7	33.4	44.7		
J	WT. DRY SOIL = H - F	(grams)	565.2	502.2	465.9		
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.7%	6.7%	9.6%		

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

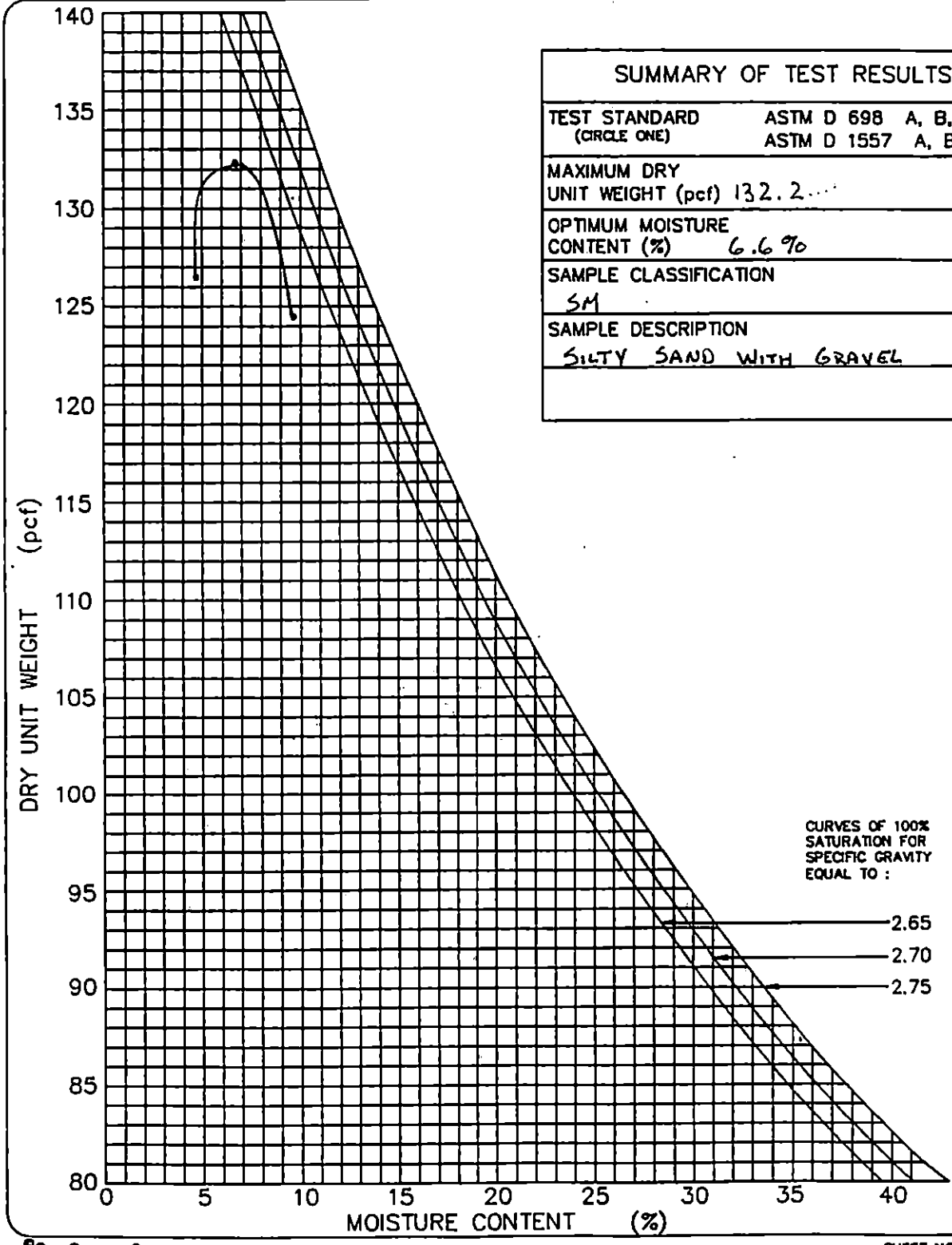
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-90 QA ID: DAR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	132.2
OPTIMUM MOISTURE CONTENT (%)	6.6 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT. SELECT SAMPLE NO.: S-91 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1790.9	1530.9
WT. OF TARE	(grams)	17.9	16.2
WT. OF DRY SAMPLE	(grams)	1773.0	1514.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	77.9	4.4	95.6	
3/8"	9.5	153.8	8.7	91.3	
4	4.75	356.3	20.1	79.9	
10	2.0	531.0	29.9	70.1	
20	0.850	733.7	41.4	58.6	
40	0.425	1059.6	59.8	40.2	
60	0.250	1337.1	75.4	24.6	
100	0.150	1455.8	82.1	17.9	
200	0.075	1512.4	85.3	14.7	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

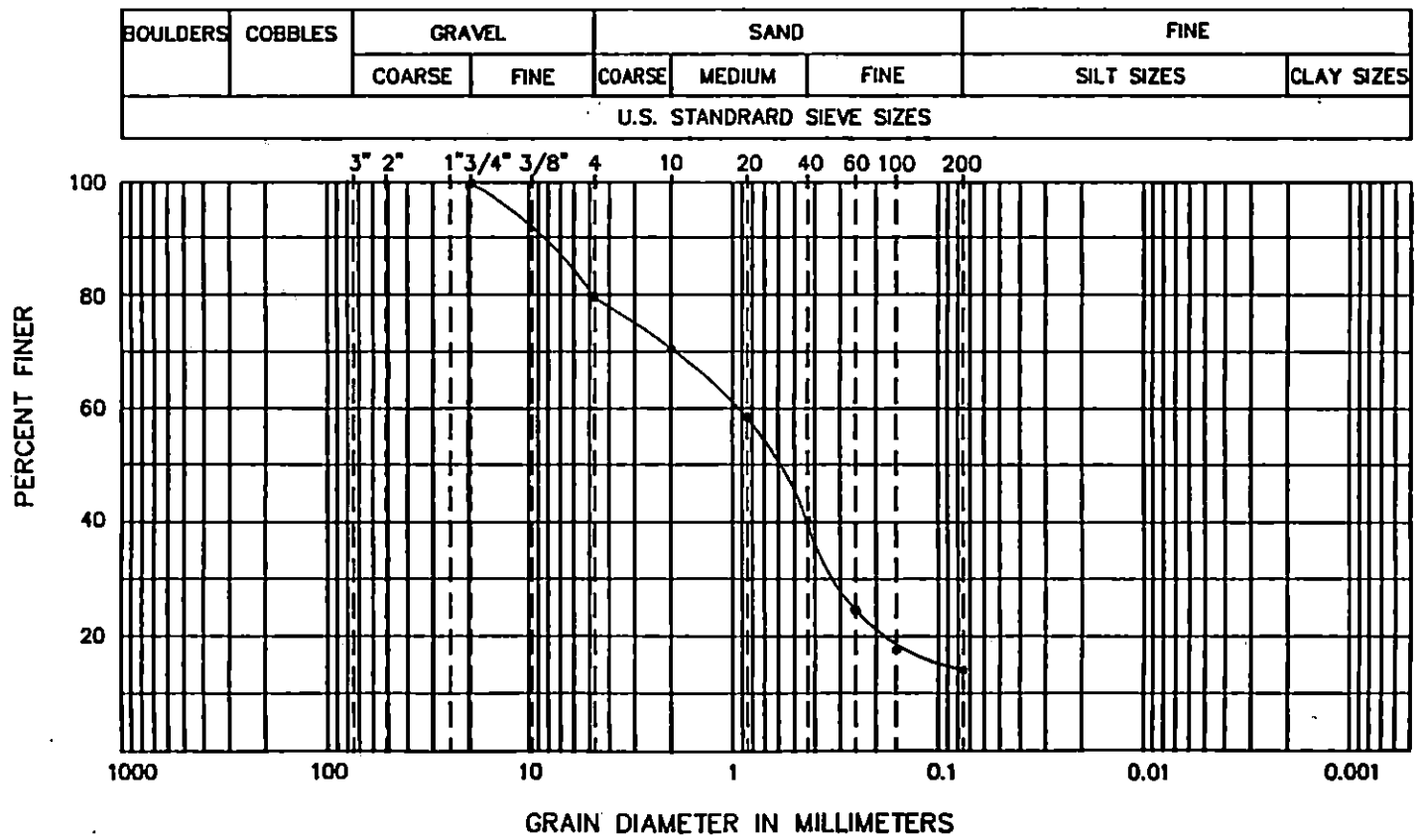
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-91 QA ID: JAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.6
3/8-in.	91.3
NO. 4	79.9
NO. 10	70.1
NO. 20	58.6
NO. 40	40.2
NO. 60	24.6
NO. 100	17.9
NO. 200	14.7

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-91 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10250	10595	10674	10590	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4405	4750	4829	4745	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.7	137.8	140.0	137.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.5	130.5	130.8	126.2	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.0	8.1	
G	WT. OF WET SOIL & TARE	(grams)	599.2	617.1	603.8	540.8	
H	WT. OF DRY SOIL & TARE	(grams)	579.6	584.6	565.0	497.0	
I	WT. OF WATER = G - H	(grams)	19.6	32.5	38.8	43.8	
J	WT. DRY SOIL = H - F	(grams)	571.7	576.6	557.0	488.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.4%	5.6%	7.0	9.0%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

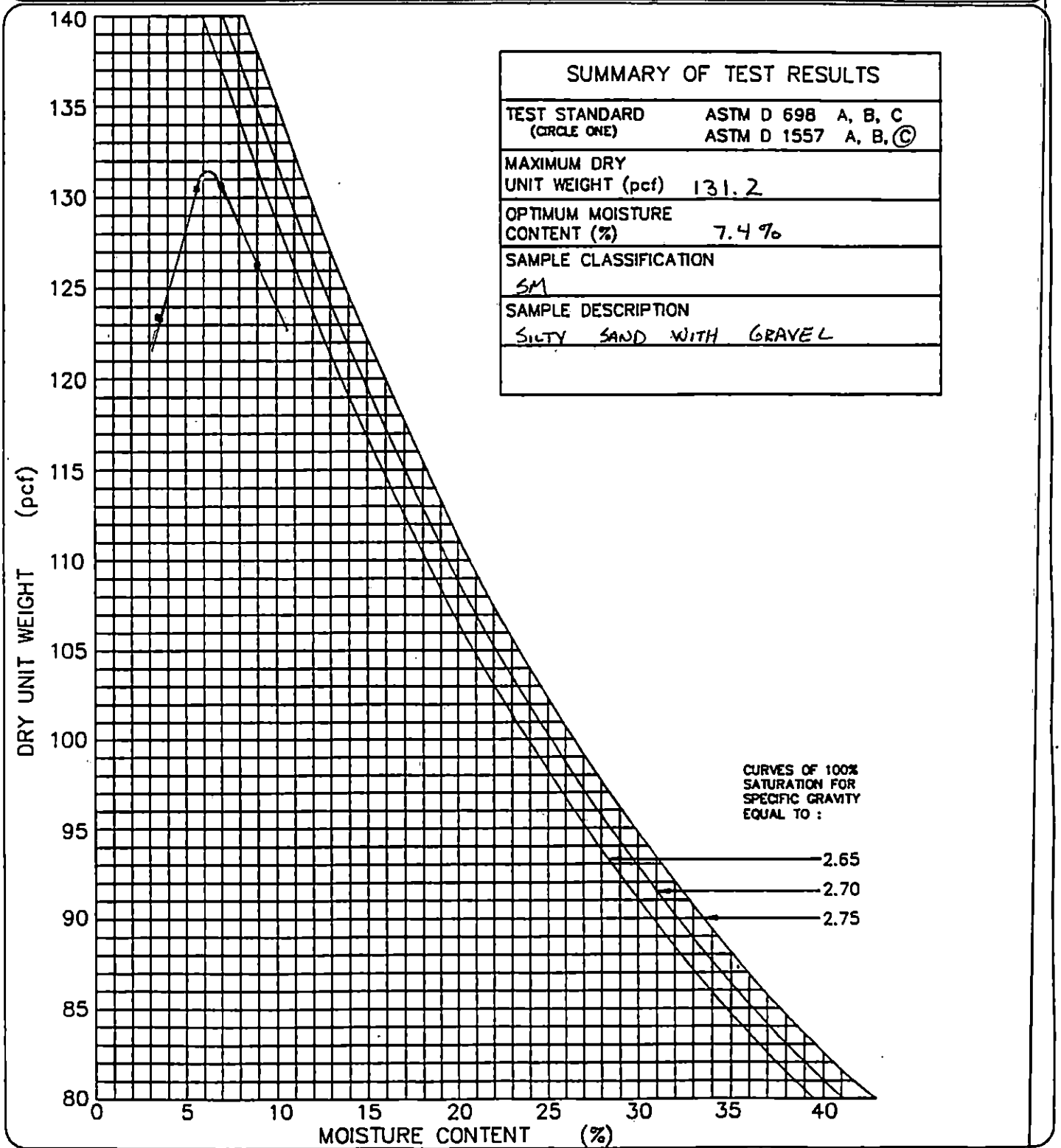
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-91 QA ID: D1R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	131.2
OPTIMUM MOISTURE CONTENT (%)	7.4 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 08 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-92 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1971.5	1685.7
WT. OF TARE	(grams)	17.9	15.9
WT. OF DRY SAMPLE	(grams)	1953.6	1669.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	140.2	7.2	92.8	
3/8"	9.5	217.8	11.1	88.9	
4	4.75	449.2	23.0	77.0	
10	2.0	628.3	32.2	67.8	
20	0.850	843.5	43.2	56.8	
40	0.425	1209.8	61.9	38.1	
60	0.250	1500.6	76.8	23.2	
100	0.150	1617.2	82.8	17.2	
200	0.075	1667.7	85.4	14.6	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

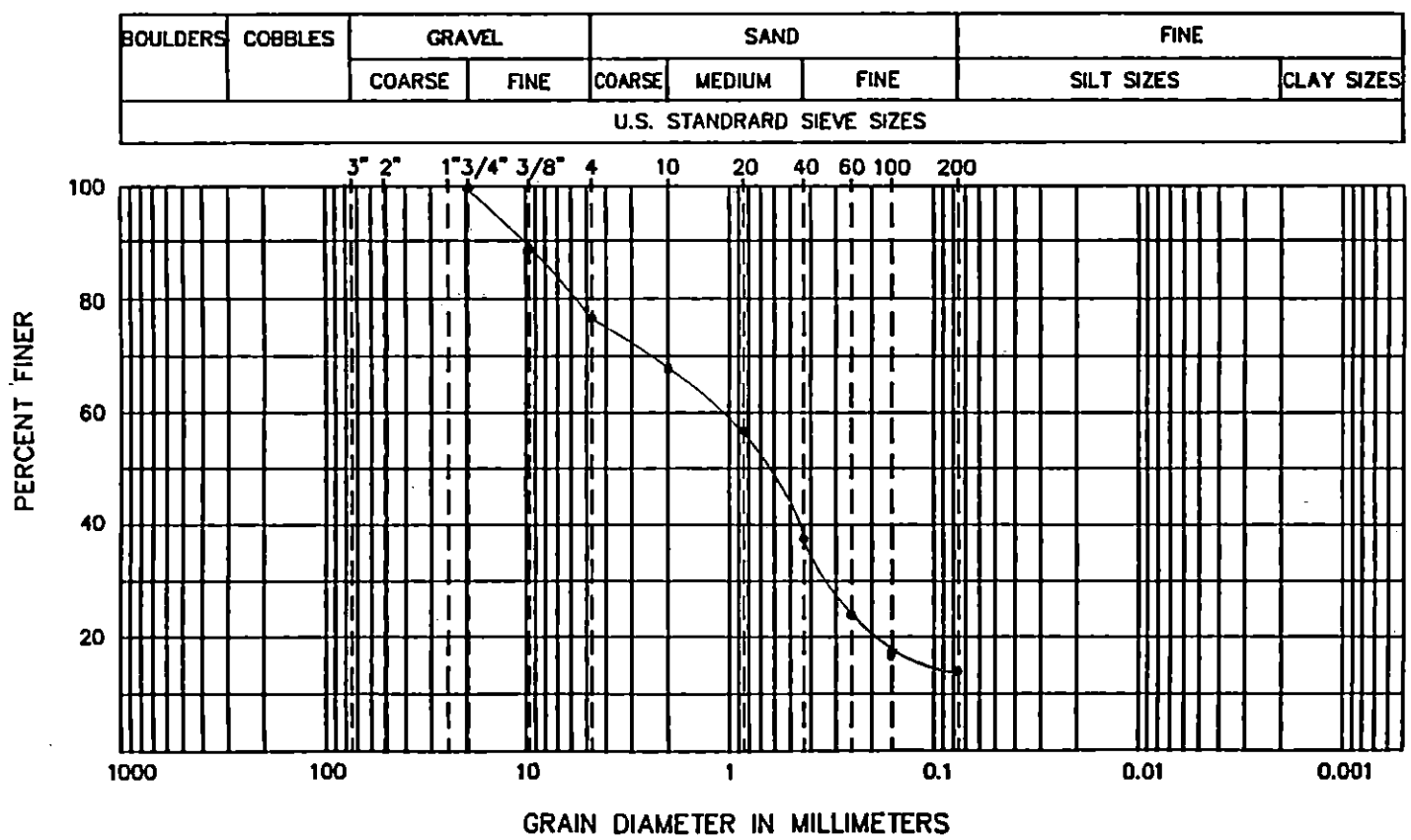
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-92 QA ID: 21R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	92.8
3/8-in.	88.9
NO. 4	77.0
NO. 10	67.8
NO. 20	56.8
NO. 40	38.1
NO. 60	23.2
NO. 100	17.2
NO. 200	14.6

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 22 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-92 — QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10260	10585	10689	10493	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4415	4740	4844	4648	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.0	137.5	140.5	134.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.8	130.5	130.1	122.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	588.8	534.8	596.9	582.5	
H	WT. OF DRY SOIL & TARE	(grams)	573.9	507.8	553.5	530.3	
I	WT. OF WATER = G - H	(grams)	14.9	27.0	43.4	52.2	
J	WT. DRY SOIL = H - F	(grams)	565.9	499.7	545.5	522.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	2.6%	5.4%	8.0%	10.0%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

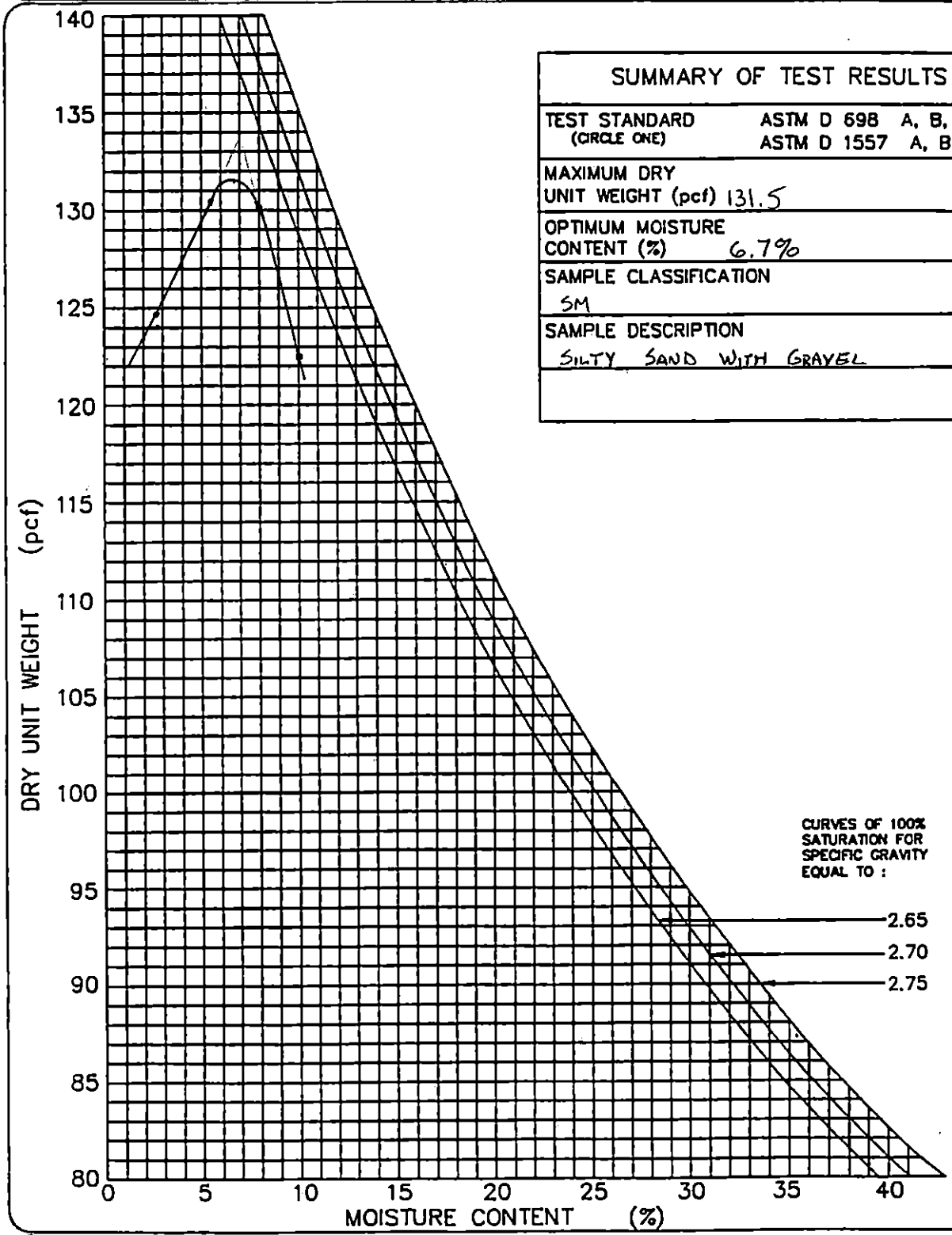
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: Agt. SELECT SAMPLE NO.: S-92 QA ID: PAR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	131.5
OPTIMUM MOISTURE CONTENT (%)	6.7%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-93 QA ID: 2/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1825.6	1556.1
WT. OF TARE	(grams)	17.9	15.9
WT. OF DRY SAMPLE	(grams)	1807.7	1540.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	77.7	4.3	95.7	
3/8"	9.5	162.1	9.0	91.0	
4	4.75	354.4	19.6	80.4	
10	2.0	540.4	29.9	70.1	
20	0.850	751.9	41.6	58.4	
40	0.425	1091.5	60.4	39.6	
60	0.250	1363.8	75.4	24.6	
100	0.150	1481.7	82.0	18.0	
200	0.075	1538.0	85.1	14.9	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

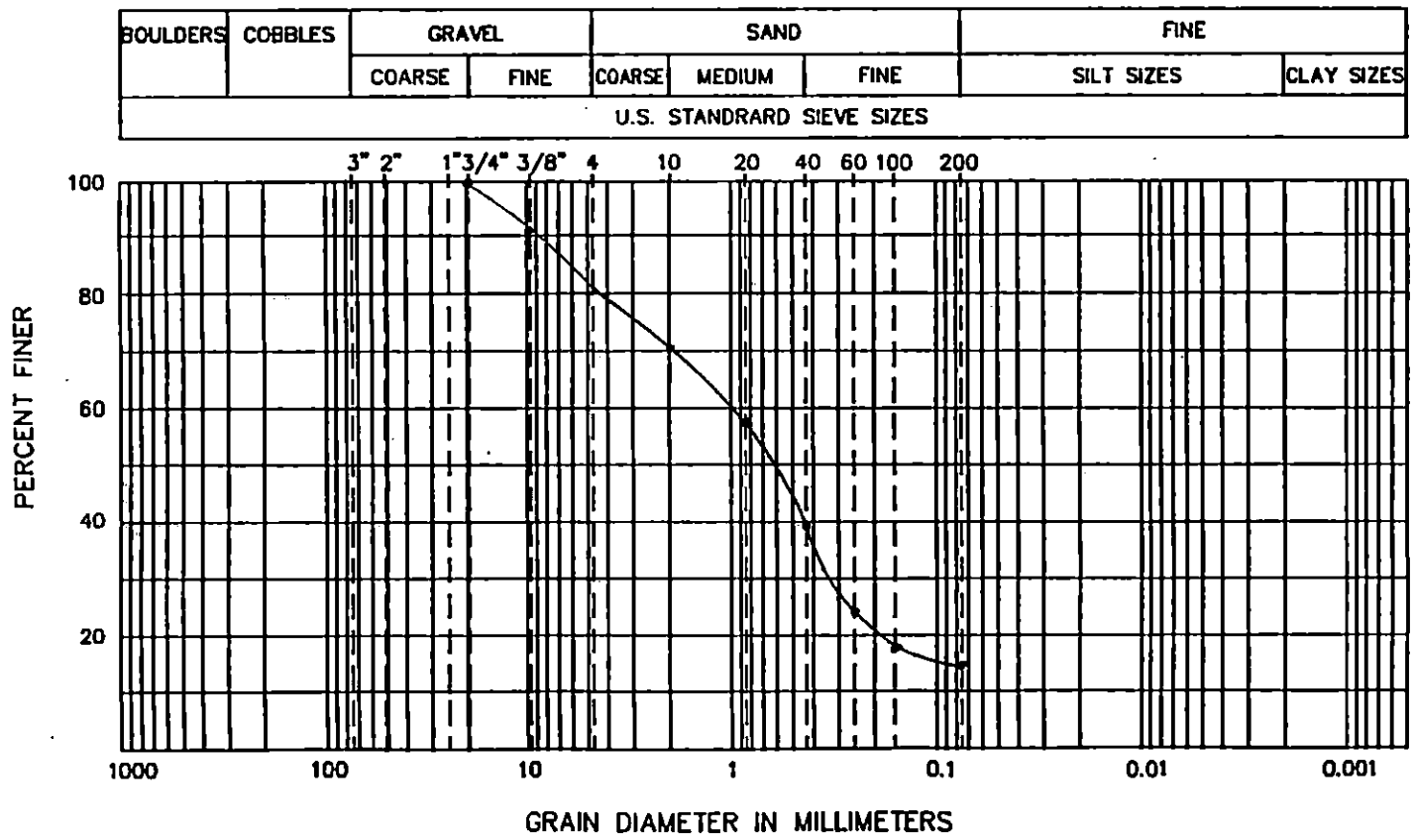
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-93 QA ID: PAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.7
3/8-in.	91.0
NO. 4	80.4
NO. 10	70.1
NO. 20	58.4
NO. 40	39.6
NO. 60	24.6
NO. 100	18.0
NO. 200	14.9

SOIL CLASSIFICATION (ASTM D 2487): SM- SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 23 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-93 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10307	10529	10708	10616	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A − B	(grams)	4462	4684	4863	4771	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.4	135.8	141.0	138.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.0	128.7	131.2	125.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT − ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.2	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	569.2	494.5	524.4	469.6	
H	WT. OF DRY SOIL & TARE	(grams)	550.4	469.1	488.4	427.9	
I	WT. OF WATER = G − H	(grams)	18.8	25.4	36.0	41.7	
J	WT. DRY SOIL = H − F	(grams)	542.4	460.9	480.4	419.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.5%	5.5%	7.5%	9.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

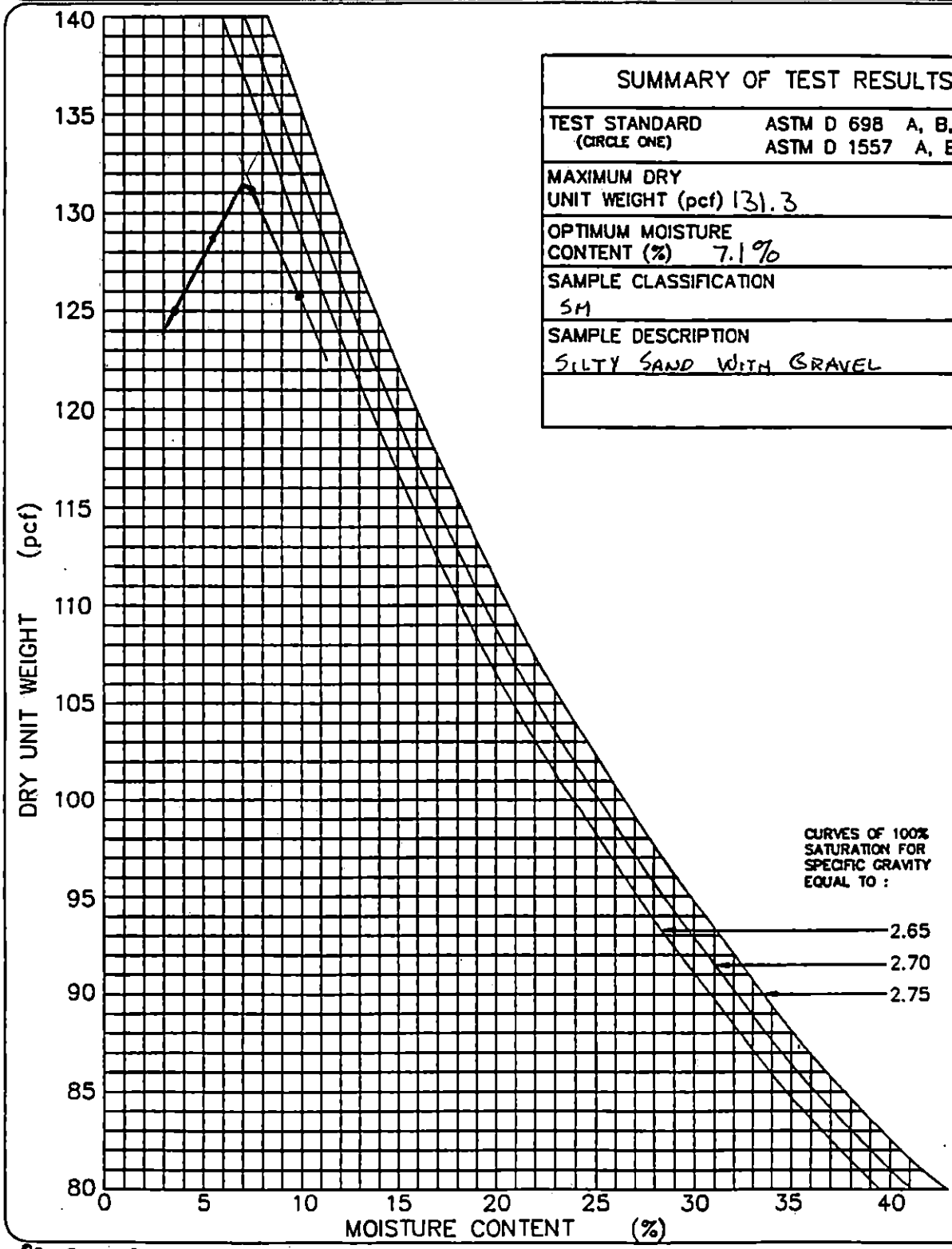
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-93 QA ID: 2/R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	131.3
OPTIMUM MOISTURE CONTENT (%)	7.1%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-94 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1937.8	1720.3
WT. OF TARE	(grams)	18.0	16.0
WT. OF DRY SAMPLE	(grams)	1919.8	1704.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	75.8	3.9	96.1	
3/8"	9.5	142.2	7.4	92.6	
4	4.75	344.4	17.9	82.1	
10	2.0	558.7	29.1	70.9	
20	0.850	815.4	42.5	57.5	
40	0.425	1217.6	63.4	36.6	
60	0.250	1527.6	79.6	20.4	
100	0.150	1648.5	85.9	14.1	
200	0.075	1699.4	88.5	11.5	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

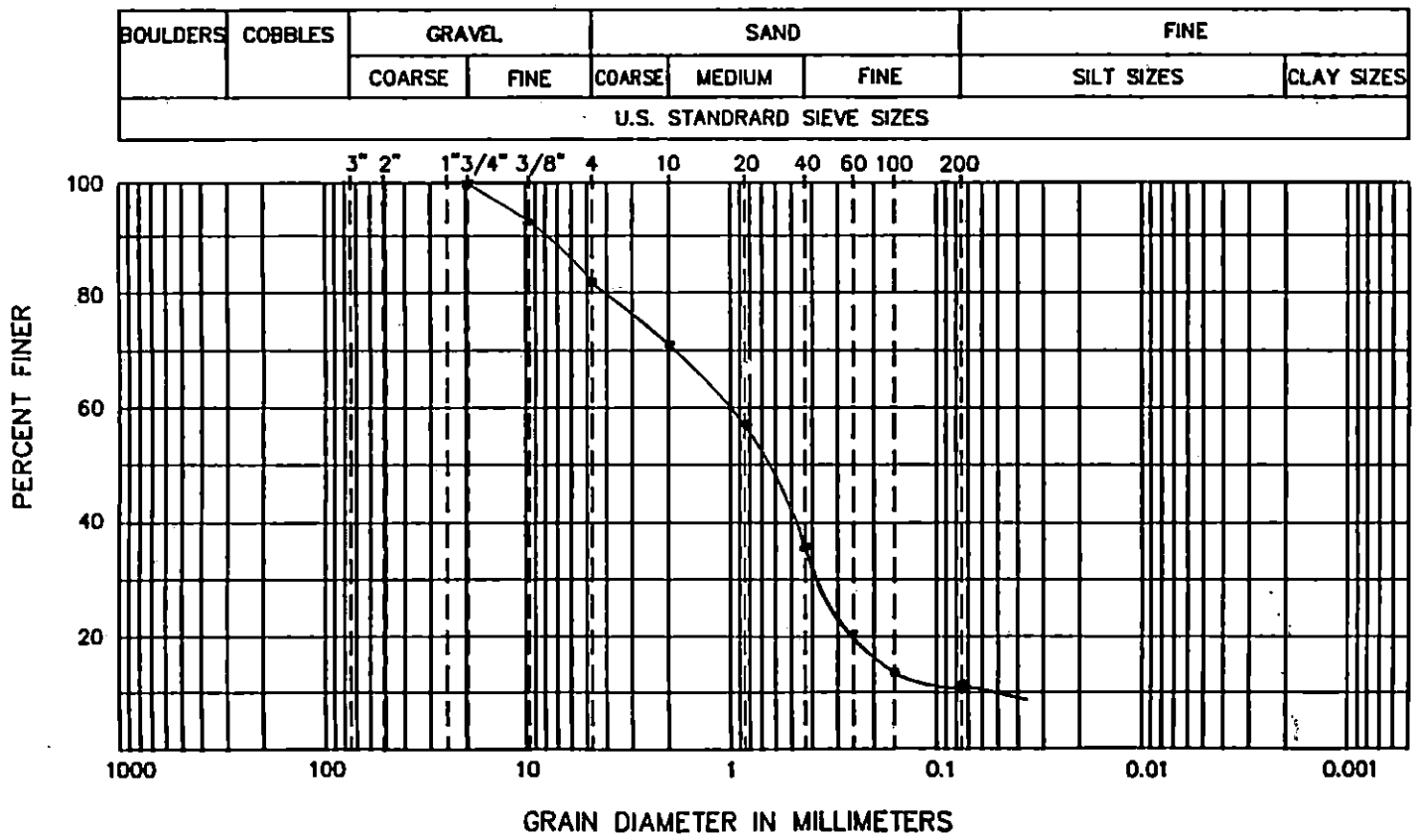
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-94 QA ID: PAR



CURVE COEFFICIENTS

(C_u) 20.0

(C_c) 3.0

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.1
3/8-in.	92.6
NO. 4	82.1
NO. 10	70.9
NO. 20	57.5
NO. 40	36.6
NO. 60	20.4
NO. 100	14.1
NO. 200	11.5

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 24 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-94 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10304	10510	10624	10563	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4459	4665	4779	4718	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.3	135.3	138.6	136.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.6	128.4	129.3	125.4	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	631.9	521.5	614.3	561.7	
H	WT. OF DRY SOIL & TARE	(grams)	608.9	495.2	573.7	515.7	
I	WT. OF WATER = G - H	(grams)	23.0	26.3	40.6	46.0	
J	WT. DRY SOIL = H - F	(grams)	601.0	487.2	565.7	507.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.8%	5.4%	7.2%	9.1%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

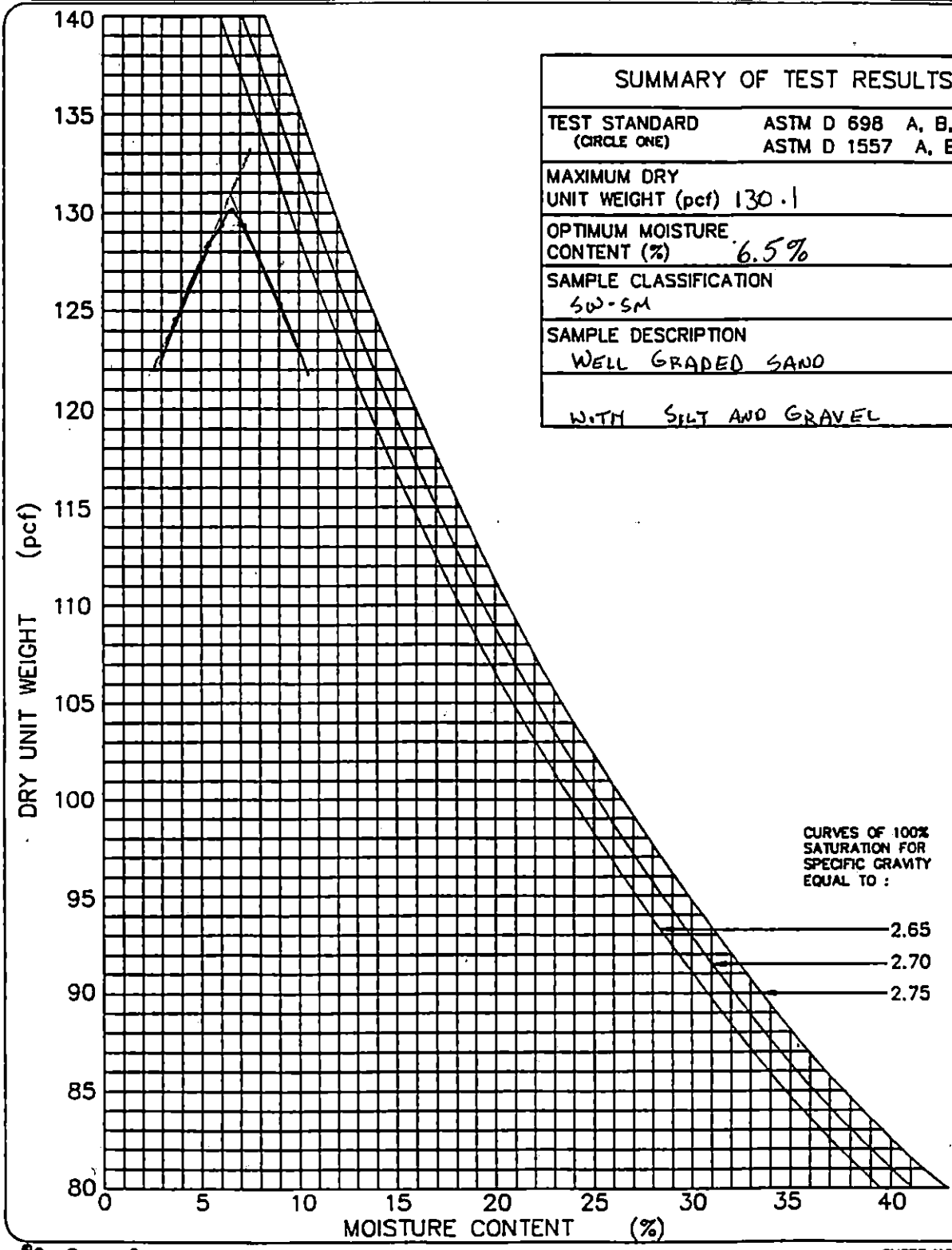
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-94 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.1
OPTIMUM MOISTURE CONTENT (%)	6.5%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND
	WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-95 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1847.7	1634.8
WT. OF TARE	(grams)	17.8	16.0
WT. OF DRY SAMPLE	(grams)	1829.9	1618.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	54.4	3.0	97.0	
3/8"	9.5	129.6	7.1	92.9	
4	4.75	310.3	17.0	83.0	
10	2.0	492.6	26.9	73.1	
20	0.850	721.5	39.4	60.6	
40	0.425	1117.0	61.0	39.0	
60	0.250	1444.3	78.9	21.1	
100	0.150	1568.7	85.7	14.3	
200	0.075	1616.9	88.4	11.6	

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

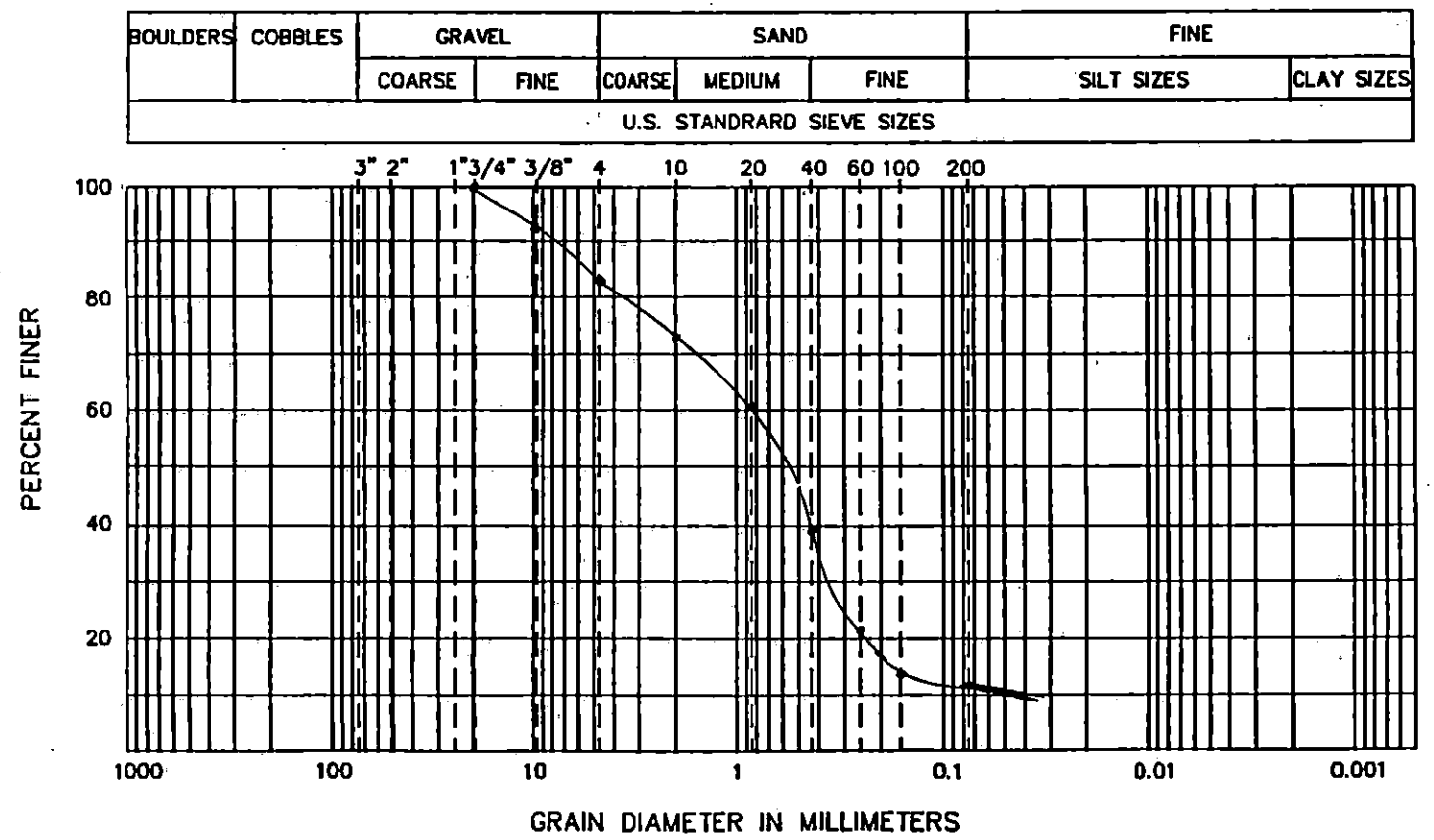
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-95 QA ID: PAR



CURVE COEFFICIENTS

(C_u) 19.3

(C_c) 2.8

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.0
3/8-in.	92.9
NO. 4	83.6
NO. 10	73.1
NO. 20	60.6
NO. 40	39.0
NO. 60	21.1
NO. 100	14.3
NO. 200	11.6

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 25 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-95 — QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10280	10400	10629	10592	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4435	4555	4784	4747	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.6	132.1	138.7	137.7	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.9	125.7	128.3	125.4	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.1	8.2	
G	WT. OF WET SOIL & TARE	(grams)	638.4	527.2	502.4	532.4	
H	WT. OF DRY SOIL & TARE	(grams)	615.3	501.9	465.4	485.6	
I	WT. OF WATER = G - H	(grams)	23.1	25.3	37.0	46.8	
J	WT. DRY SOIL = H - F	(grams)	607.4	493.9	457.3	477.4	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.8%	5.1%	8.1%	9.8%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

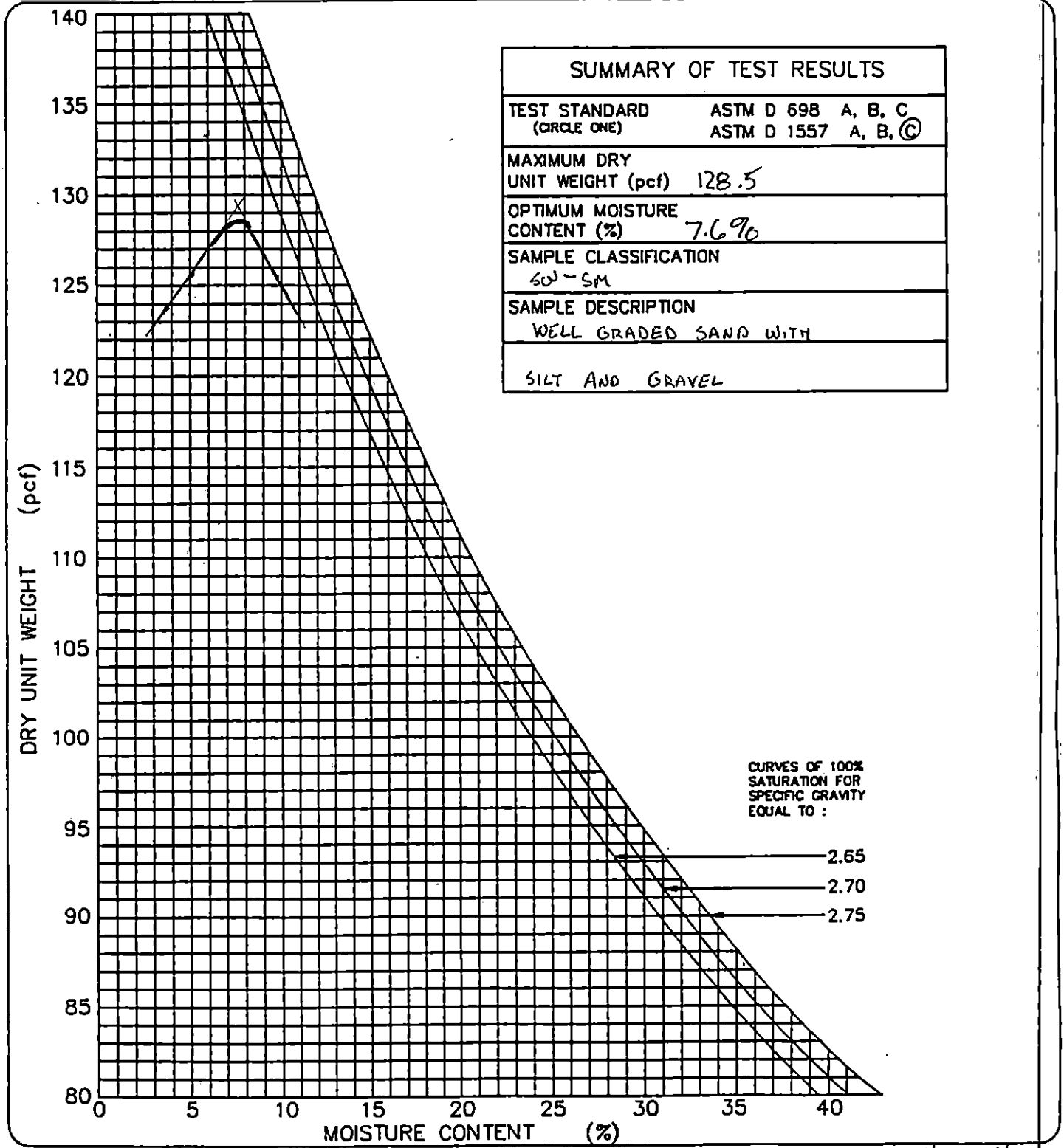
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-95 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.5
OPTIMUM MOISTURE CONTENT (%)	7.6%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 08 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-96 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	2032.6	1846.1
WT. OF TARE	(grams)	17.9	16.6
WT. OF DRY SAMPLE	(grams)	2014.7	1830.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	88.5	4.4	95.6	
3/8"	9.5	165.8	8.2	91.8	
4	4.75	388.2	19.3	80.7	
10	2.0	608.6	30.2	69.8	
20	0.850	881.1	43.7	56.3	
40	0.425	1343.2	66.7	33.3	
60	0.250	1677.8	83.3	16.7	
100	0.150	1788.4	88.8	11.2	
200	0.075	1825.9	90.6	9.4	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

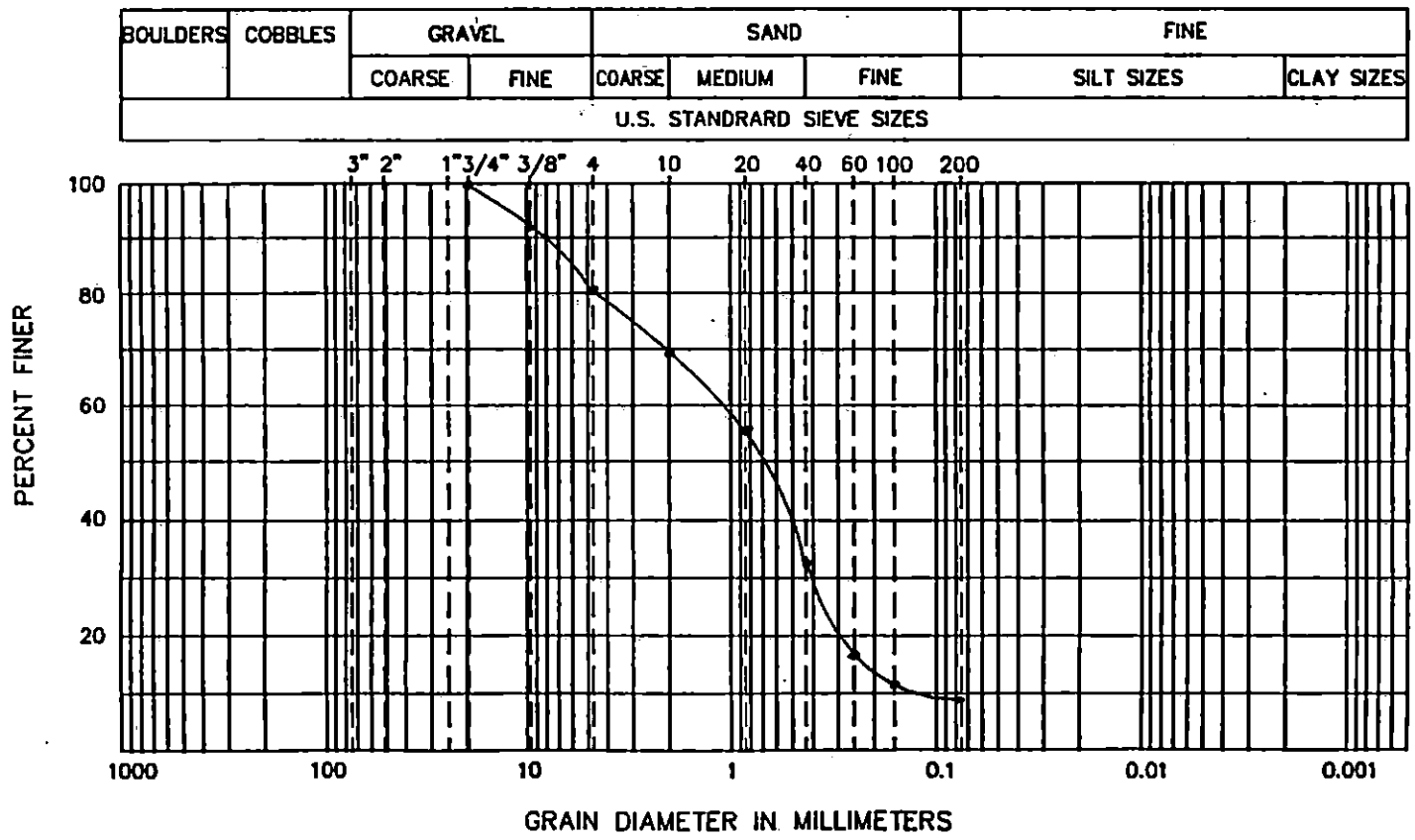
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 28 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-96 — QA ID: 2/R



CURVE COEFFICIENTS

(C_u) 9.2

(C_c) 1.2

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.6
3/8-in.	91.8
NO. 4	80.7
NO. 10	69.8
NO. 20	56.3
NO. 40	33.3
NO. 60	16.7
NO. 100	11.2
NO. 200	9.9

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-96 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10204	10350	10590	10567	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4359	4505	4745	4722	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	126.4	130.6	137.6	136.9	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	121.5	124.0	126.2	123.8	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	631.3	581.2	577.9	573.0	
H	WT. OF DRY SOIL & TARE	(grams)	607.2	552.1	530.7	519.0	
I	WT. OF WATER = G - H	(grams)	24.1	29.1	47.2	54.0	
J	WT. DRY SOIL = H - F	(grams)	599.2	544.0	522.7	510.8	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.0%	5.3%	9.0%	10.6%	

GeoSyntec Consultants

TOWN OF HUNTINGTON

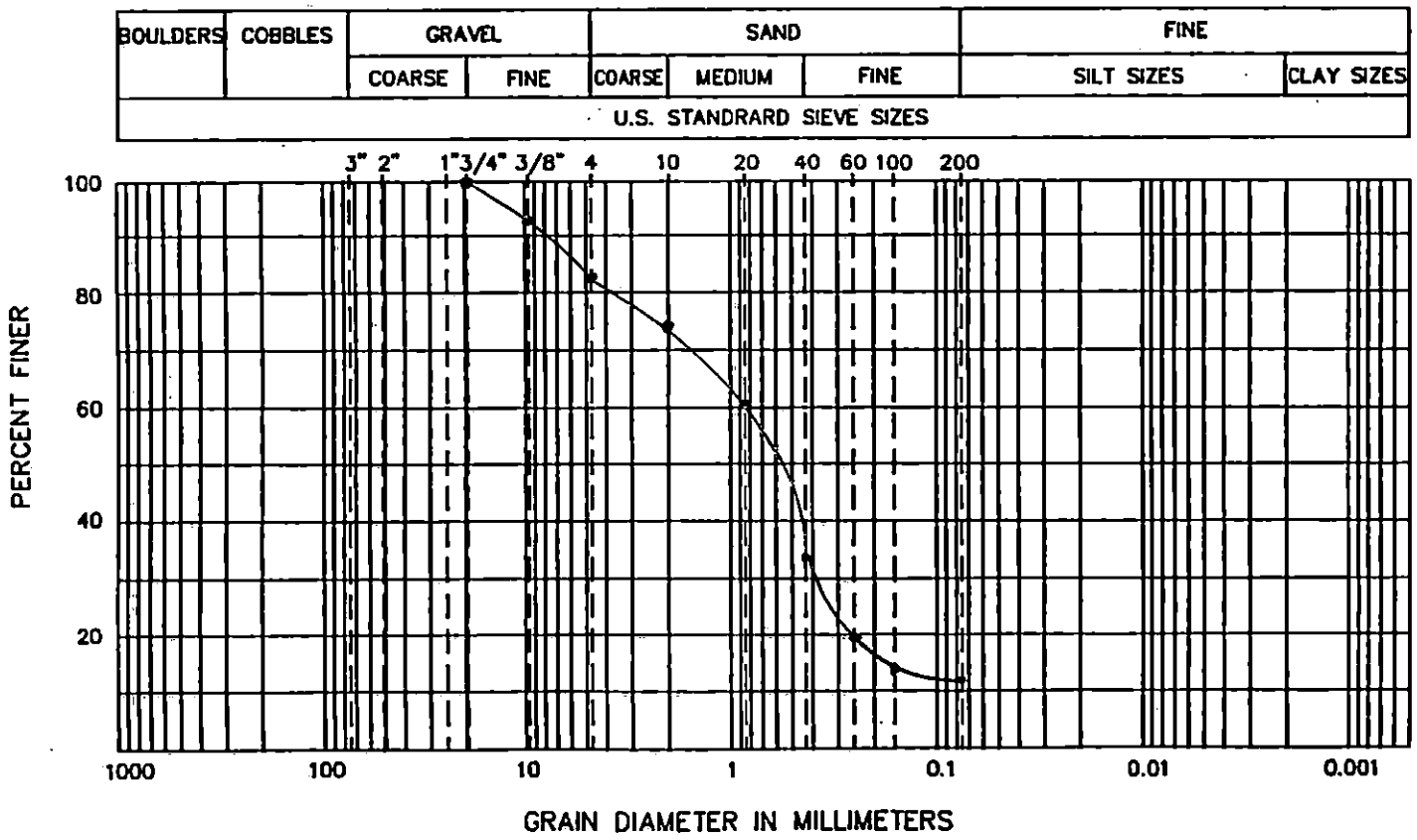
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-103 QA ID: DJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.6
3/8-in.	92.9
NO. 4	82.8
NO. 10	74.1
NO. 20	60.7
NO. 40	34.0
NO. 60	19.6
NO. 100	14.7
NO. 200	12.4

SOIL CLASSIFICATION (ASTM D 2487): SM SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 07 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-103 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10364	10519	10630	10584	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A − B	(grams)	4519	4674	4785	4739	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.1	135.5	138.8	137.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.6	128.0	128.6	126.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT − ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.1	8.2	
G	WT. OF WET SOIL & TARE	(grams)	634.6	597.9	591.2	539.1	
H	WT. OF DRY SOIL & TARE	(grams)	608.1	565.1	548.3	496.9	
I	WT. OF WATER = G − H	(grams)	26.5	32.8	42.9	42.2	
J	WT. DRY SOIL = H − F	(grams)	600.1	557.1	540.2	488.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.4%	5.9%	7.9%	8.6%	

GeoSyntec Consultants

TOWN OF HUNTINGTON

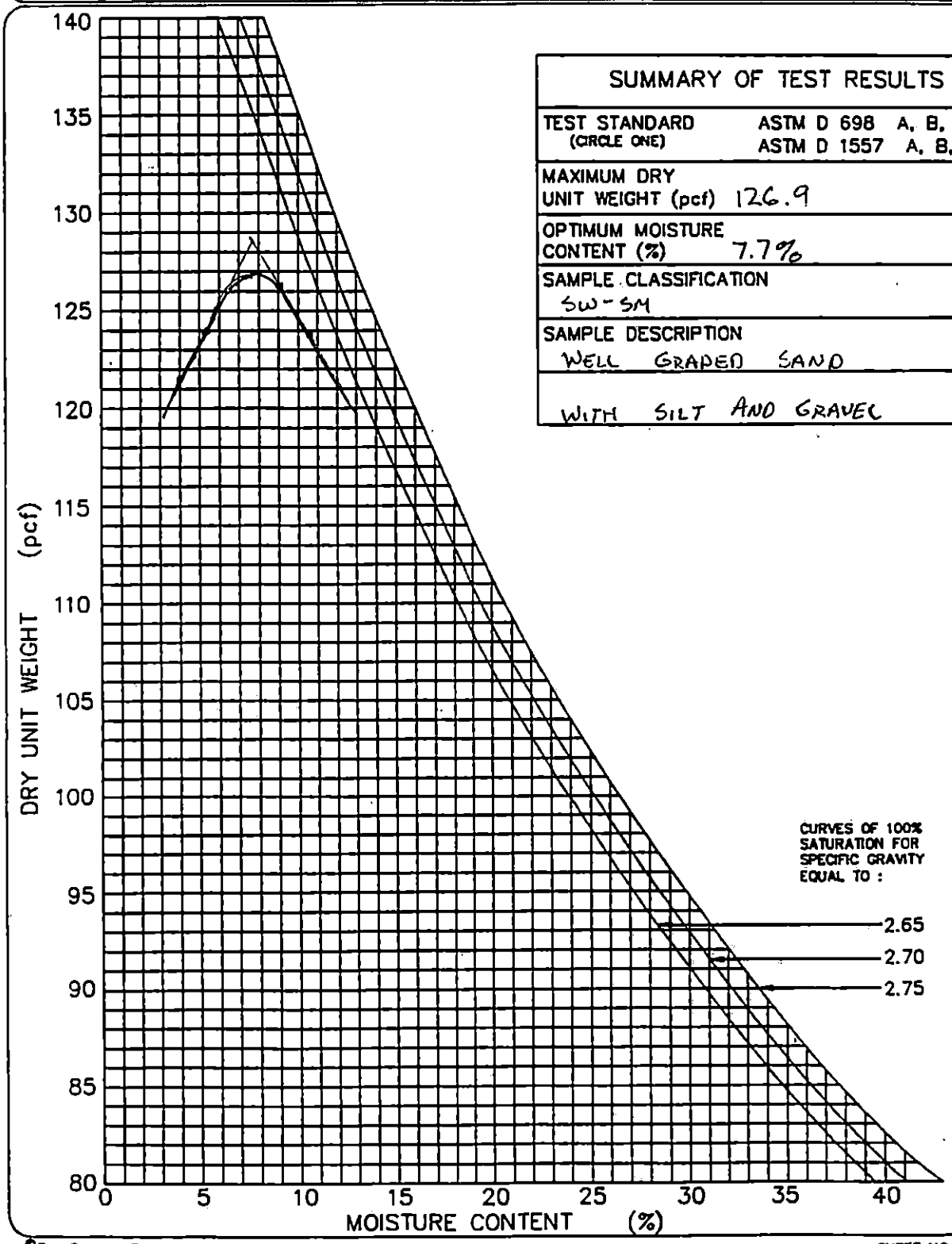
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-96 QA ID: 7/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	126.9
OPTIMUM MOISTURE CONTENT (%)	7.7%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-97 QA ID: 2/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1695.1	1523.1
WT. OF TARE	(grams)	17.9	16.9
WT. OF DRY SAMPLE	(grams)	1677.2	1506.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	64.9	3.9	96.1	
3/8"	9.5	121.5	7.2	92.8	
4	4.75	285.4	17.0	83.0	
10	2.0	456.9	27.2	72.8	
20	0.850	688.9	41.1	58.9	
40	0.425	1109.8	66.2	33.8	
60	0.250	1391.9	83.0	17.0	
100	0.150	1478.4	88.1	11.9	
200	0.075	1504.9	89.7	10.3	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

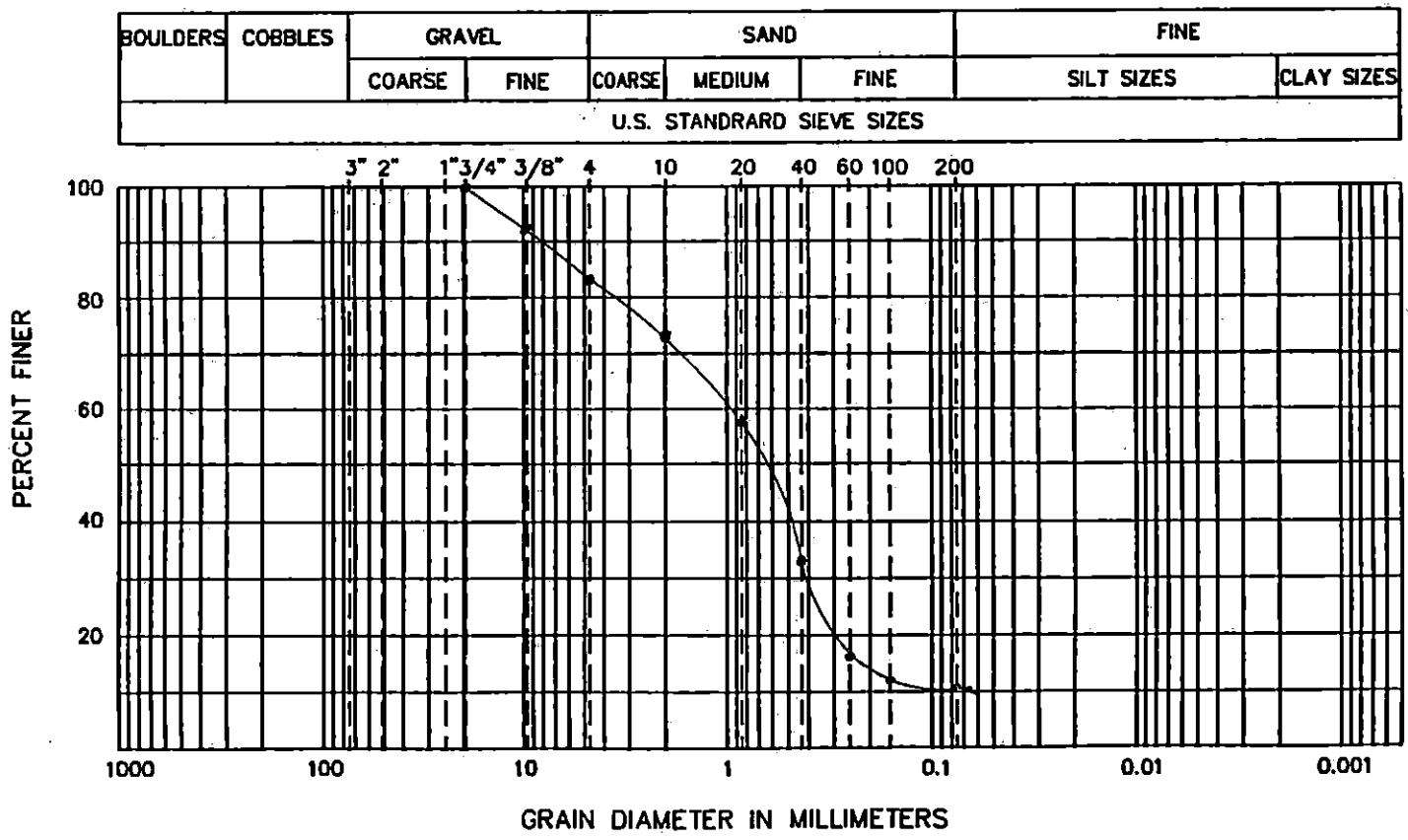
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-97 QA ID: DAR



CURVE COEFFICIENTS

(C_u) 14.1

(C_c) 2.4

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.1
3/8-in.	92.8
NO. 4	83.0
NO. 10	72.8
NO. 20	58.9
NO. 40	33.8
NO. 60	17.0
NO. 100	11.9
NO. 200	10.3

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 29 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-97 — QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10340	10491	10539	10513	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A − B	(grams)	4495	4646	4694	4668	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.4	134.7	136.1	135.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.1	127.2	126.5	123.0	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT − ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	609.7	556.3	503.3	682.2	
H	WT. OF DRY SOIL & TARE	(grams)	585.4	525.7	468.2	620.2	
I	WT. OF WATER = G − H	(grams)	24.3	30.6	35.1	62.0	
J	WT. DRY SOIL = H − F	(grams)	577.4	517.6	460.2	611.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.2%	5.9%	7.6%	10.1%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

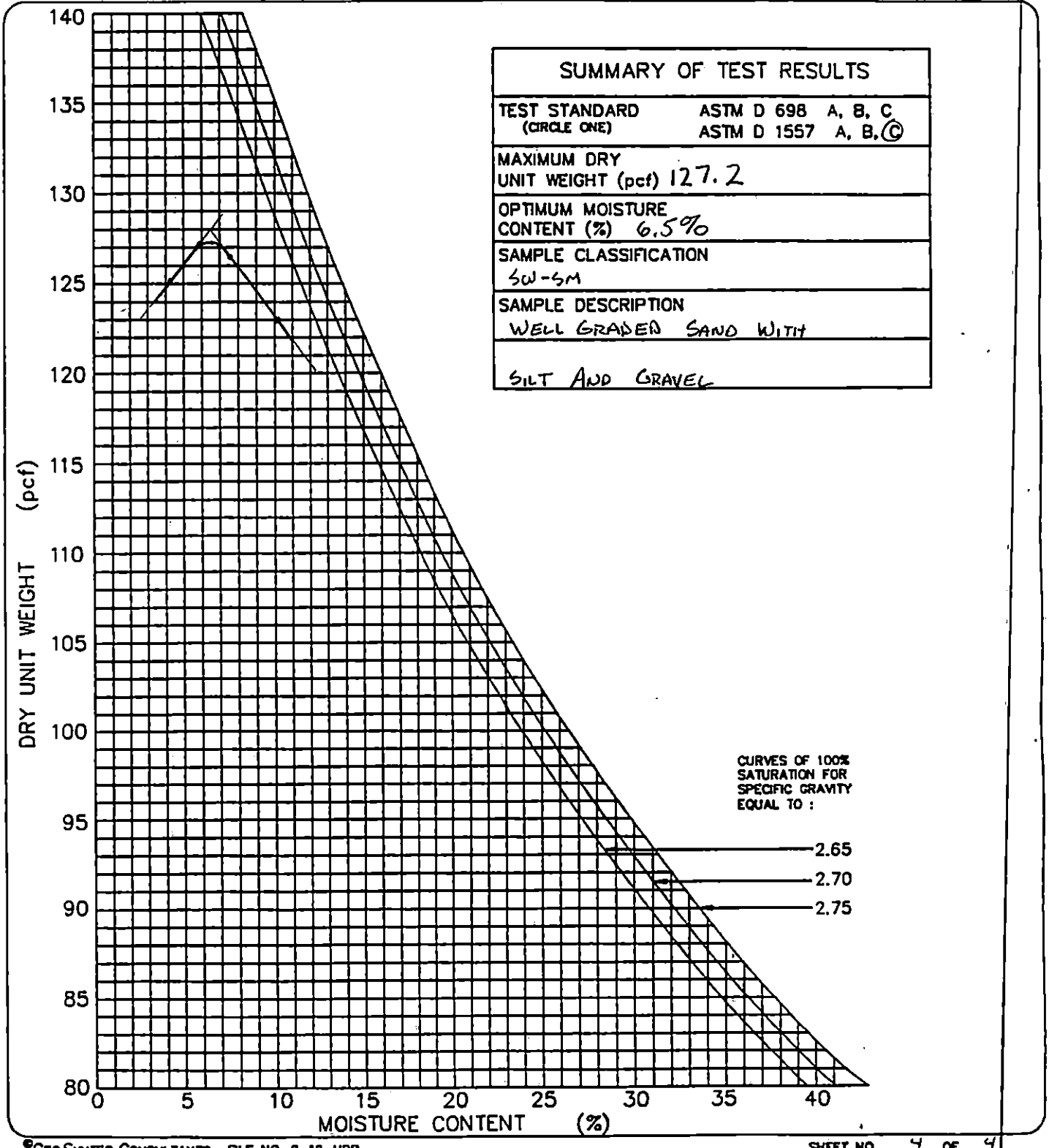
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-97 QA ID: D/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	127.2
OPTIMUM MOISTURE CONTENT (%)	6.5%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-98 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1811.5	1594.5
WT. OF TARE	(grams)	17.8	16.9
WT. OF DRY SAMPLE	(grams)	1793.7	1577.6

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	64.1	3.6	96.4	
3/8"	9.5	122.5	6.8	93.2	
4	4.75	292.7	16.3	83.7	
10	2.0	479.4	26.7	73.3	
20	0.850	741.6	41.3	58.7	
40	0.425	1223.5	68.2	31.8	
60	0.250	1471.5	82.0	18.0	
100	0.150	1551.7	86.5	13.5	
200	0.075	1576.5	87.9	12.1	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

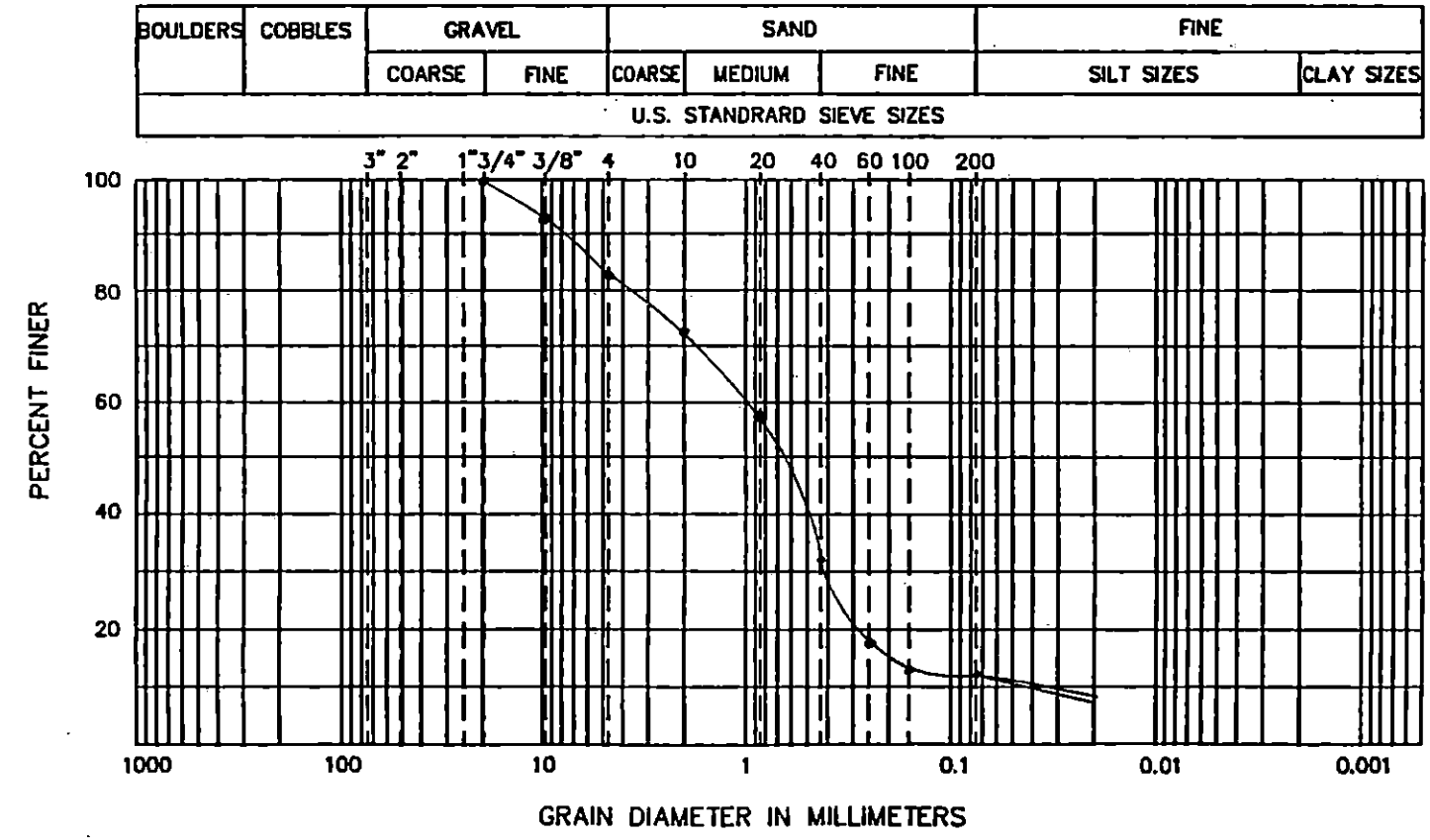
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-98 QA ID: DJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.4
3/8-in.	93.2
NO. 4	83.7
NO. 10	73.3
NO. 20	58.7
NO. 40	31.8
NO. 60	18.0
NO. 100	13.5
NO. 200	12.1

SOIL CLASSIFICATION (ASTM D 2487): SM SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 30 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-98 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10390	10608	10638	10559	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4545	4763	4793	4714	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.8	138.1	139.0	136.7	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.2	129.9	128.6	124.4	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.1	8.0	
G	WT. OF WET SOIL & TARE	(grams)	592.4	596.5	568.9	549.3	
H	WT. OF DRY SOIL & TARE	(grams)	568.0	561.4	527.1	500.7	
I	WT. OF WATER = G - H	(grams)	24.4	35.1	41.8	48.6	
J	WT. DRY SOIL = H - F	(grams)	560.1	553.4	519.0	492.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.4%	6.3%	8.1%	9.9%	

GeoSyntec Consultants

TOWN OF HUNTINGTON

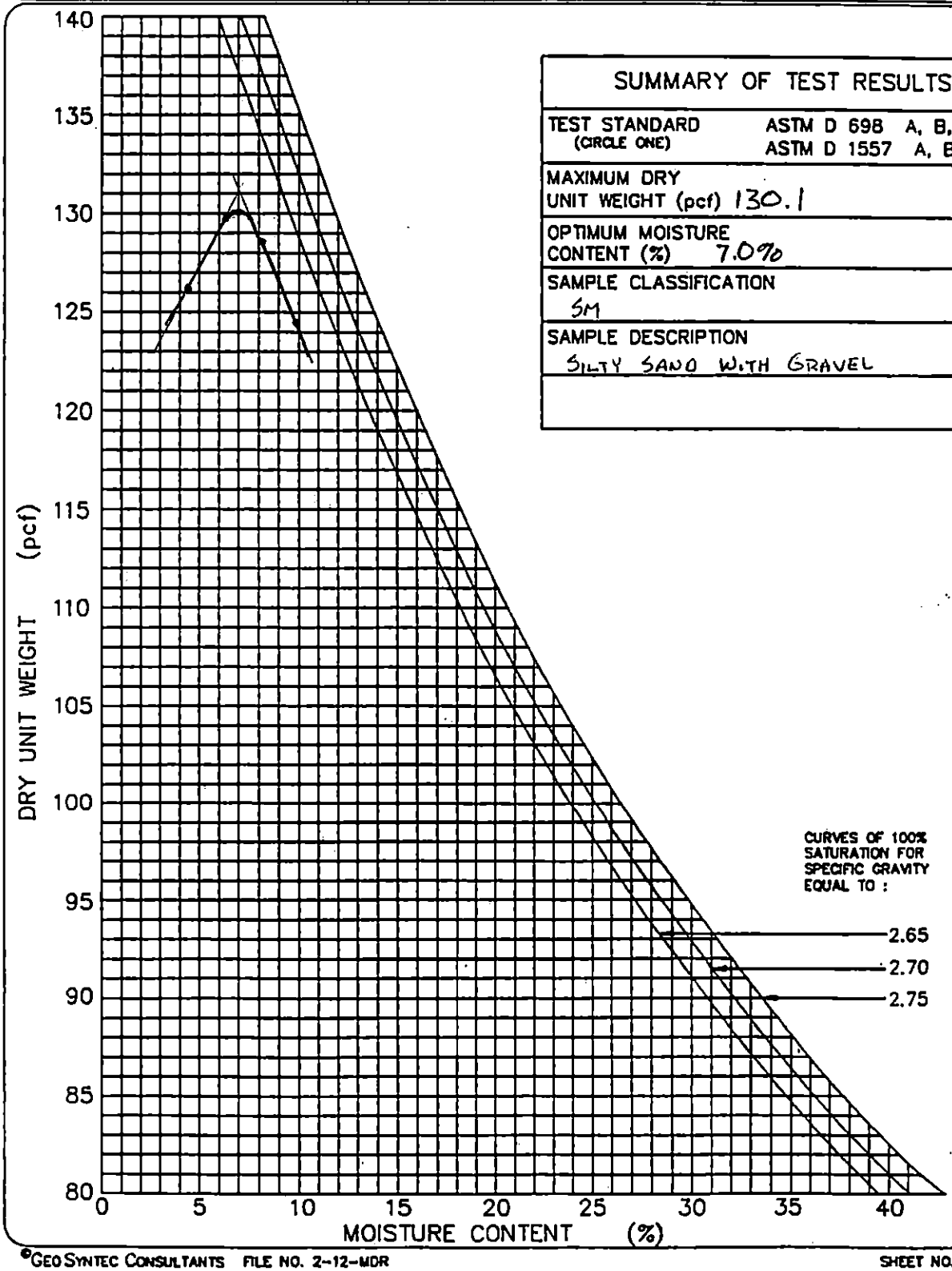
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-98 QA ID: 21K



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.1
OPTIMUM MOISTURE CONTENT (%)	7.0%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 31 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-99 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1940.1	1707.3
WT. OF TARE	(grams)	17.0	16.0
WT. OF DRY SAMPLE	(grams)	1923.1	1691.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	50.0	2.6	97.4	
3/8"	9.5	137.9	7.2	92.8	
4	4.75	344.6	17.9	82.1	
10	2.0	539.5	28.1	71.9	
20	0.850	808.1	42.0	58.0	
40	0.425	1319.2	68.6	31.4	
60	0.250	1578.6	82.1	17.9	
100	0.150	1661.2	86.4	13.6	
200	0.075	1690.1	87.9	12.1	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

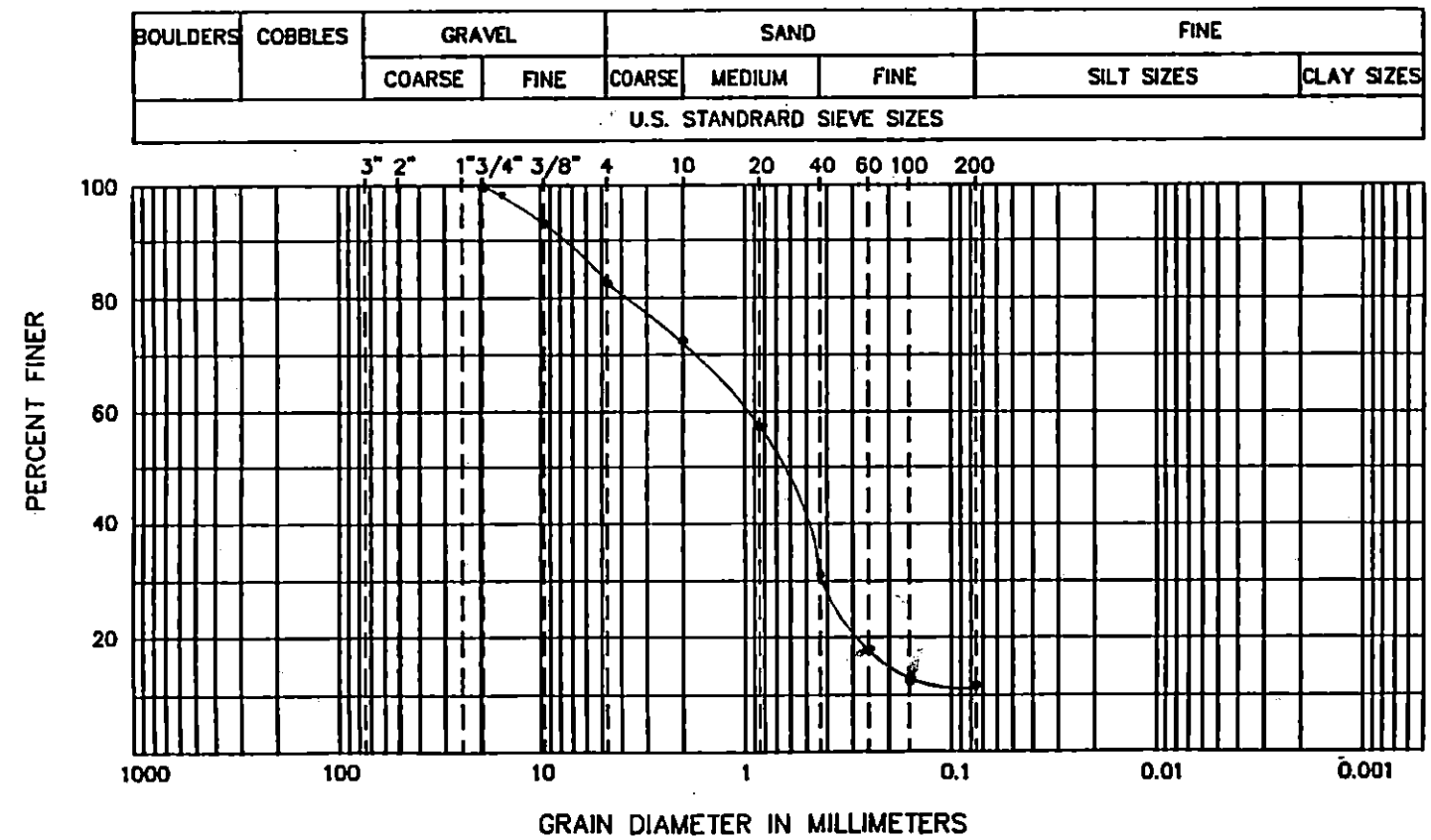
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 31 day 08 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-99 — QA ID: JAR



CURVE COEFFICIENTS

(C_u) . . . . . .

(C_c) . . . . . .

ATTERBERG LIMITS

(LL) . . . . . .

(PL) . . . . . .

(PI) . . . . . .

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.4
3/8-in.	92.8
NO. 4	82.1
NO. 10	71.9
NO. 20	58.0
NO. 40	31.4
NO. 60	17.9
NO. 100	13.6
NO. 200	12.1

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 31 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-99 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10137	10540	10614	10599	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4292	4695	4769	4754	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	124.5	136.2	138.3	137.9	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	120.8	128.2	128.3	125.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.1	8.2	
G	WT. OF WET SOIL & TARE	(grams)	631.7	627.0	589.0	665.1	
H	WT. OF DRY SOIL & TARE	(grams)	613.2	591.0	547.0	606.6	
I	WT. OF WATER = G - H	(grams)	18.5	36.0	42.0	58.5	
J	WT. DRY SOIL = H - F	(grams)	605.2	583.0	538.9	598.4	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.1%	6.2%	7.8%	9.8%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

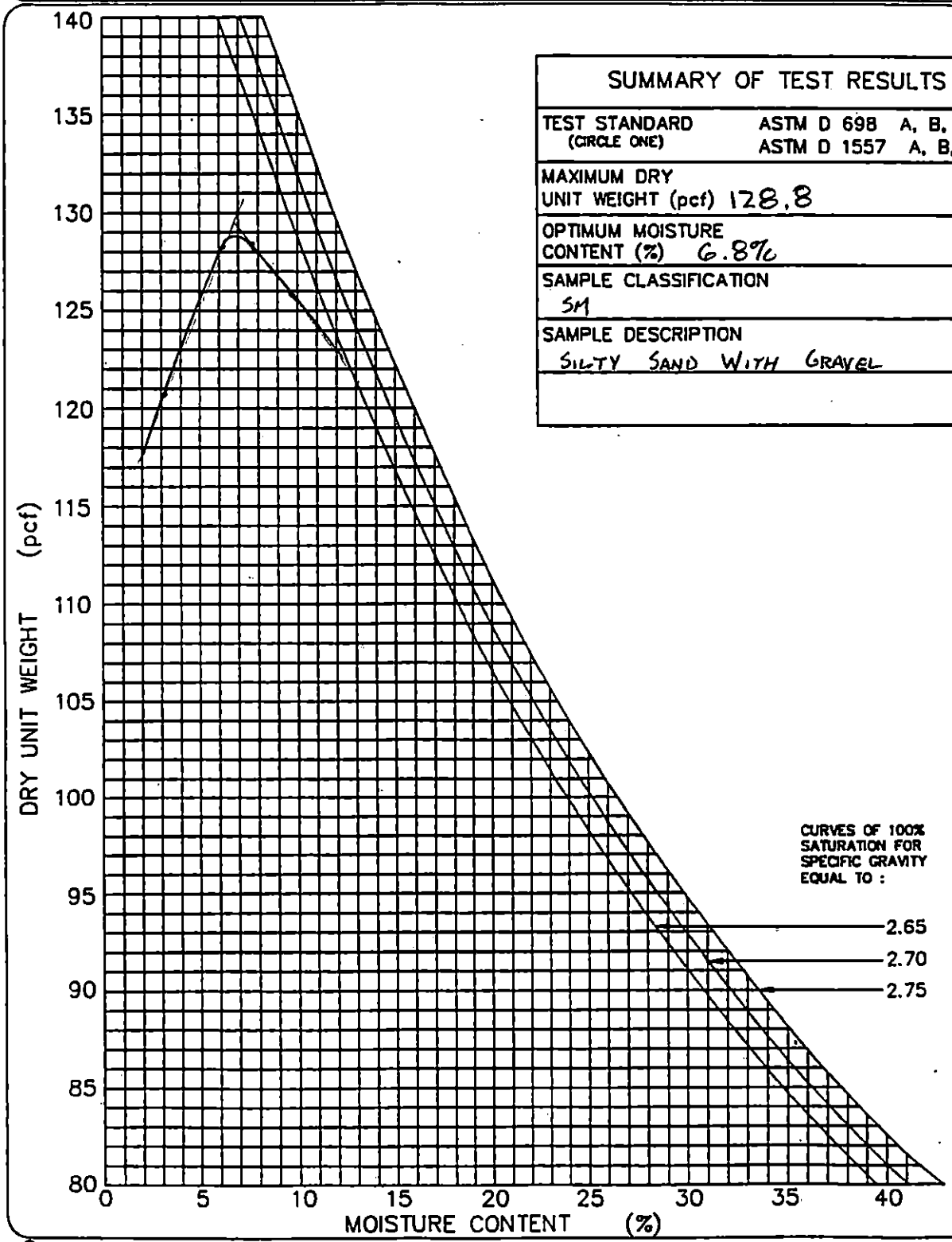
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 31 day 08 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-99 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.8
OPTIMUM MOISTURE CONTENT (%)	6.8%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-100 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1904.9	1667.4
WT. OF TARE	(grams)	16.9	16.1
WT. OF DRY SAMPLE	(grams)	1888.0	1651.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	26.2	1.4	98.6	
3/8"	9.5	80.9	4.3	95.7	
4	4.75	242.6	12.8	87.2	
10	2.0	434.6	23.0	77.0	
20	0.850	687.7	36.4	63.6	
40	0.425	1108.5	58.7	41.3	
60	0.250	1456.2	77.1	22.9	
100	0.150	1591.3	84.3	15.7	
200	0.075	1650.2	87.4	12.6	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

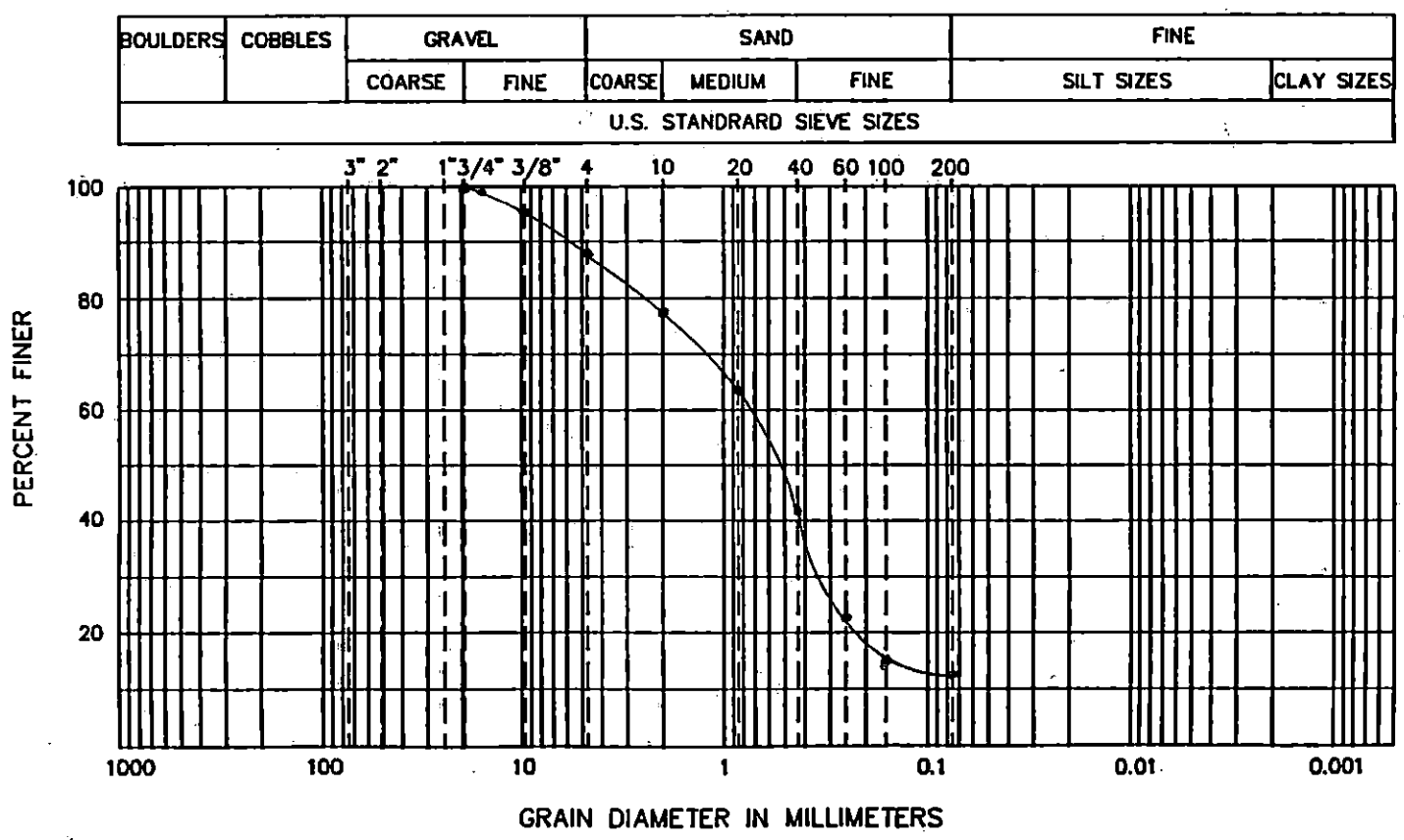
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 01 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-100 — QA ID: N/R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	98.6
3/8-in.	95.7
NO. 4	87.2
NO. 10	77.0
NO. 20	63.6
NO. 40	41.3
NO. 60	22.9
NO. 100	15.7
NO. 200	12.6

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 01 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-100 — QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10289	10555	10699	10627	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4444	4710	4854	4782	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.9	136.6	140.8	138.7	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.6	128.5	130.2	126.0	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.2	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	656.4	615.6	566.5	644.5	
H	WT. OF DRY SOIL & TARE	(grams)	629.7	579.8	524.8	586.3	
I	WT. OF WATER = G - H	(grams)	26.7	35.8	41.7	58.2	
J	WT. DRY SOIL = H - F	(grams)	621.8	571.6	516.8	578.0	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.3%	6.3%	8.1%	10.1%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

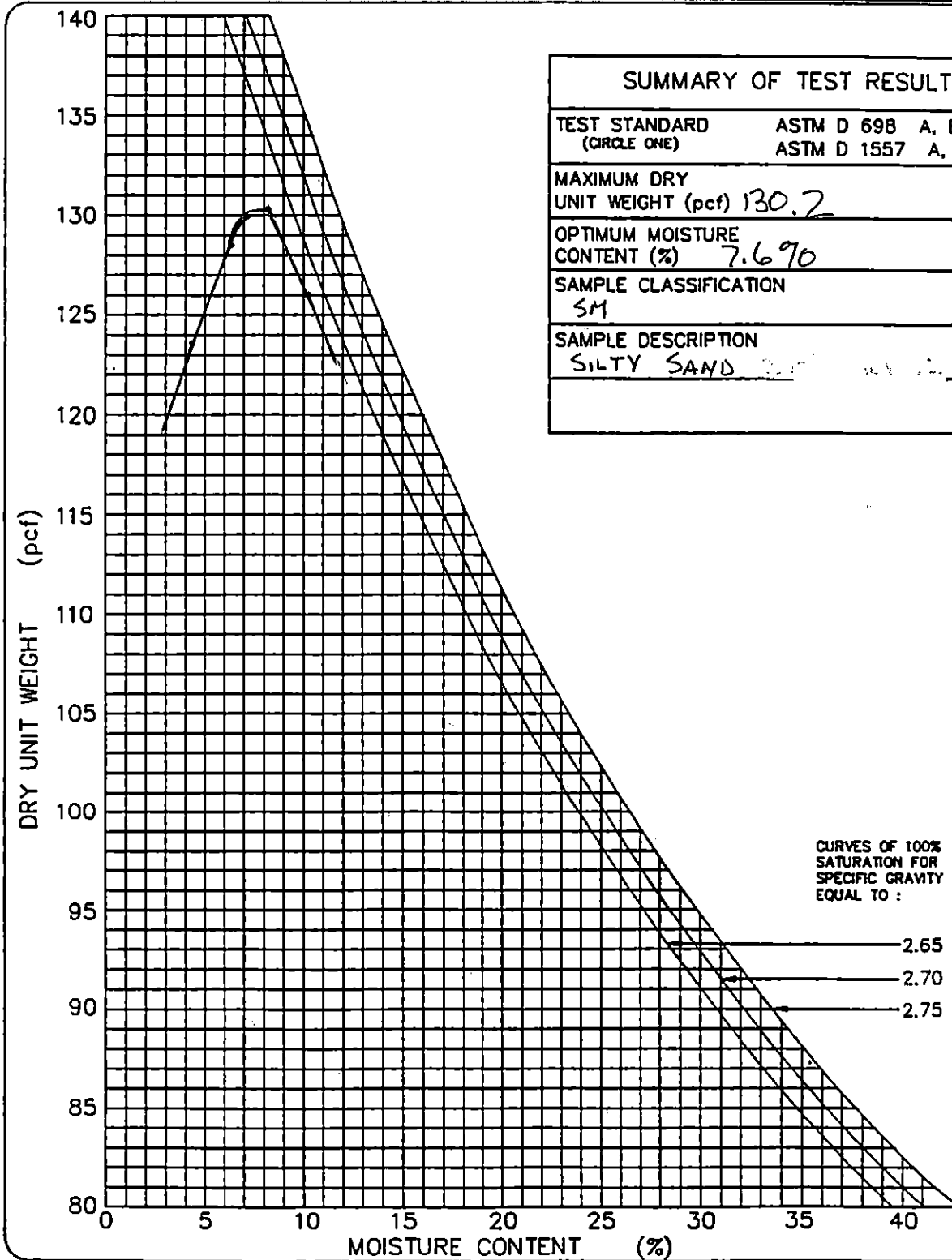
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-100 QA ID: DAR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.2
OPTIMUM MOISTURE CONTENT (%)	7.6%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 05 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-101 QA ID: 21R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1692.9	1518.0
WT. OF TARE	(grams)	16.9	16.4
WT. OF DRY SAMPLE	(grams)	1676.0	1501.6

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	65.9	3.9	96.1	
3/8"	9.5	137.3	8.2	91.8	
4	4.75	294.4	17.6	82.4	
10	2.0	449.5	26.8	73.2	
20	0.850	661.7	39.5	60.5	
40	0.425	1052.7	62.8	37.2	
60	0.250	1356.2	80.9	19.1	
100	0.150	1464.0	87.4	12.6	
200	0.075	1499.8	89.5	10.5	

%FINER = 100 − Σ % RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

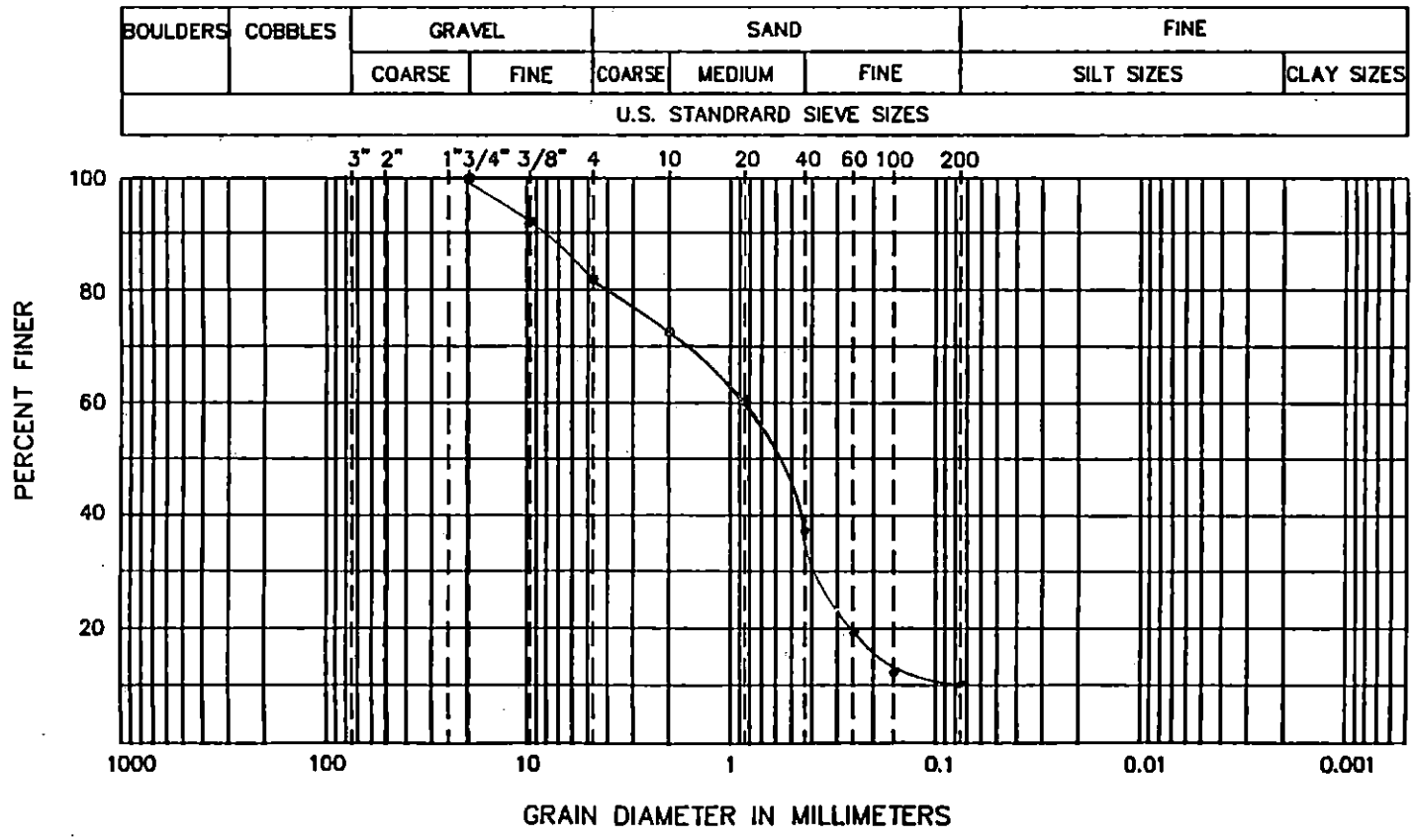
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 05 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-101 QA ID: PJR



CURVE COEFFICIENTS

(C_u) 11.2

(C_c) 2.7

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.1
3/8-in.	91.8
NO. 4	82.9
NO. 10	73.2
NO. 20	60.5
NO. 40	37.2
NO. 60	19.1
NO. 100	12.6
NO. 200	10.5

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 05 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-101 QA ID: D1R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10313	10484	10556	10535	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4468	4639	4711	4690	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.6	134.5	136.6	136.0	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.9	125.8	125.5	124.0	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.0	8.3	8.0	
G	WT. OF WET SOIL & TARE	(grams)	461.1	572.8	477.8	655.3	
H	WT. OF DRY SOIL & TARE	(grams)	441.6	536.4	439.9	598.2	
I	WT. OF WATER = G - H	(grams)	20.1	36.4	37.9	57.1	
J	WT. DRY SOIL = H - F	(grams)	432.9	528.4	431.6	590.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.6%	6.9%	8.8%	9.7%	

GeoSyntec Consultants

TOWN OF HUNTINGTON

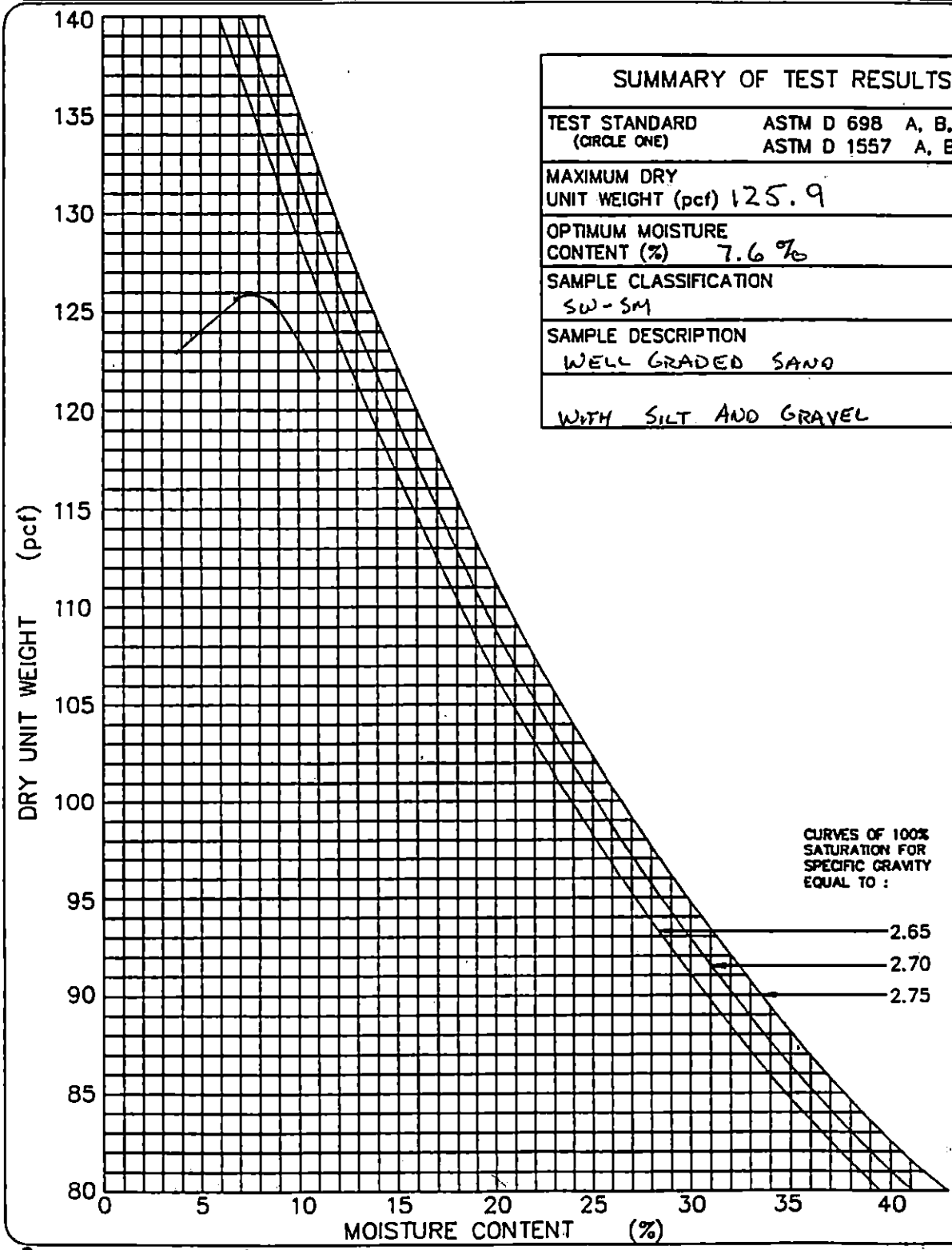
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 05 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-101 QA ID: D/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	125.9
OPTIMUM MOISTURE CONTENT (%)	7.6 %
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-102 QA ID: 2/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1718.6	1538.3
WT. OF TARE	(grams)	17.0	16.1
WT. OF DRY SAMPLE	(grams)	1701.6	1522.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	43.8	2.6	97.4	
3/8"	9.5	98.3	5.8	94.2	
4	4.75	261.4	15.4	84.6	
10	2.0	435.6	25.6	74.4	
20	0.850	663.2	39.0	61.0	
40	0.425	1058.4	62.2	37.8	
60	0.250	1364.2	80.2	19.8	
100	0.150	1471.9	86.5	13.5	
200	0.075	1521.1	89.4	10.6	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

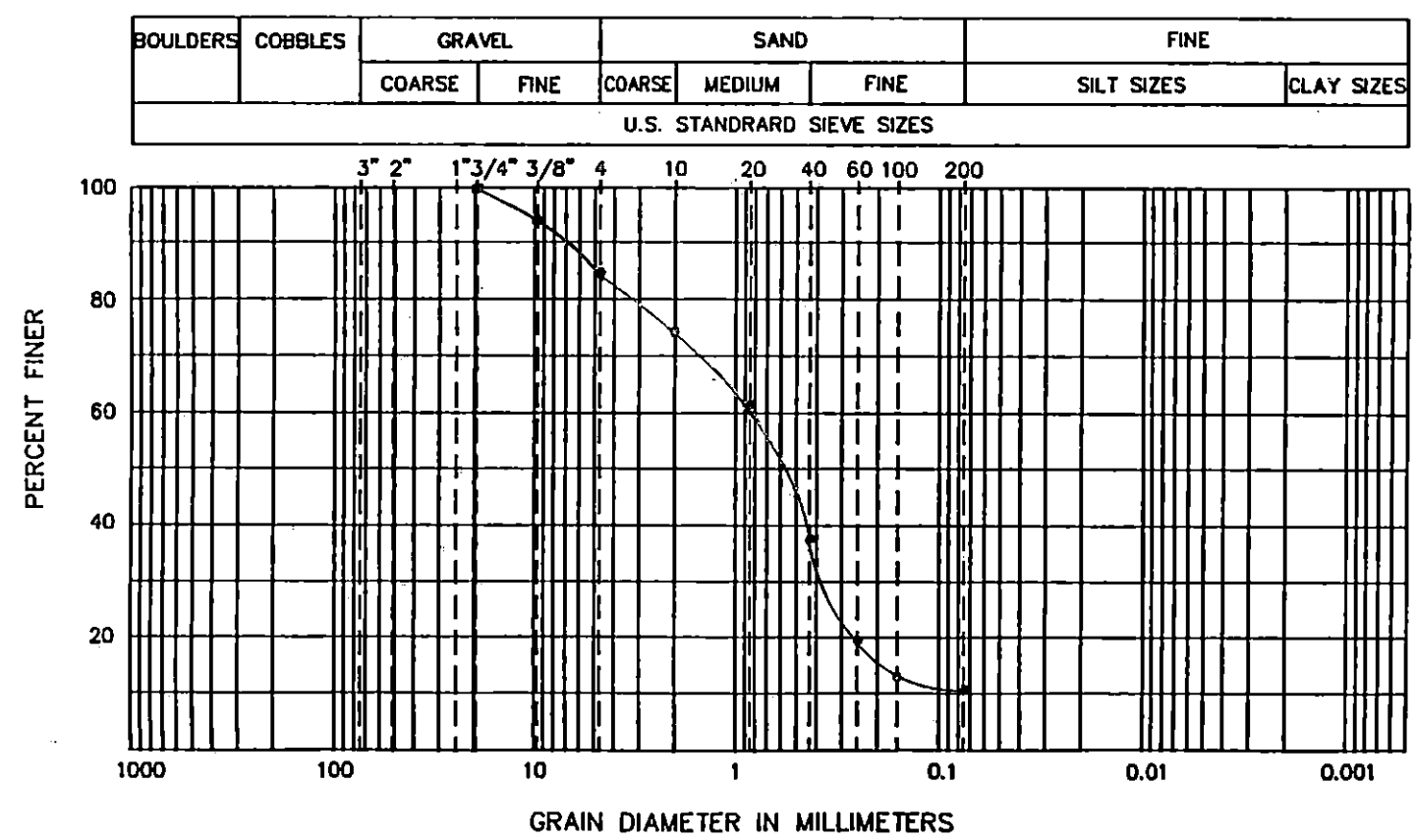
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 06 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-102 — QA ID: 7/R



CURVE COEFFICIENTS

(C_u) 11.7

(C_c) 2.6

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.4
3/8-in.	94.2
NO. 4	84.6
NO. 10	74.4
NO. 20	61.0
NO. 40	37.8
NO. 60	19.8
NO. 100	13.5
NO. 200	10.6

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 06 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-102 QA ID: MR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10276	10419	10585	10560	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A − B	(grams)	4431	4574	4740	4715	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.5	132.6	137.5	136.7	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.6	125.2	127.3	124.8	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT − ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.2	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	618.8	600.7	643.2	716.8	
H	WT. OF DRY SOIL & TARE	(grams)	595.1	567.5	596.2	655.4	
I	WT. OF WATER = G − H	(grams)	23.7	33.2	47.0	61.4	
J	WT. DRY SOIL = H − F	(grams)	587.2	559.3	588.2	647.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.0%	5.9%	8.0%	9.5%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

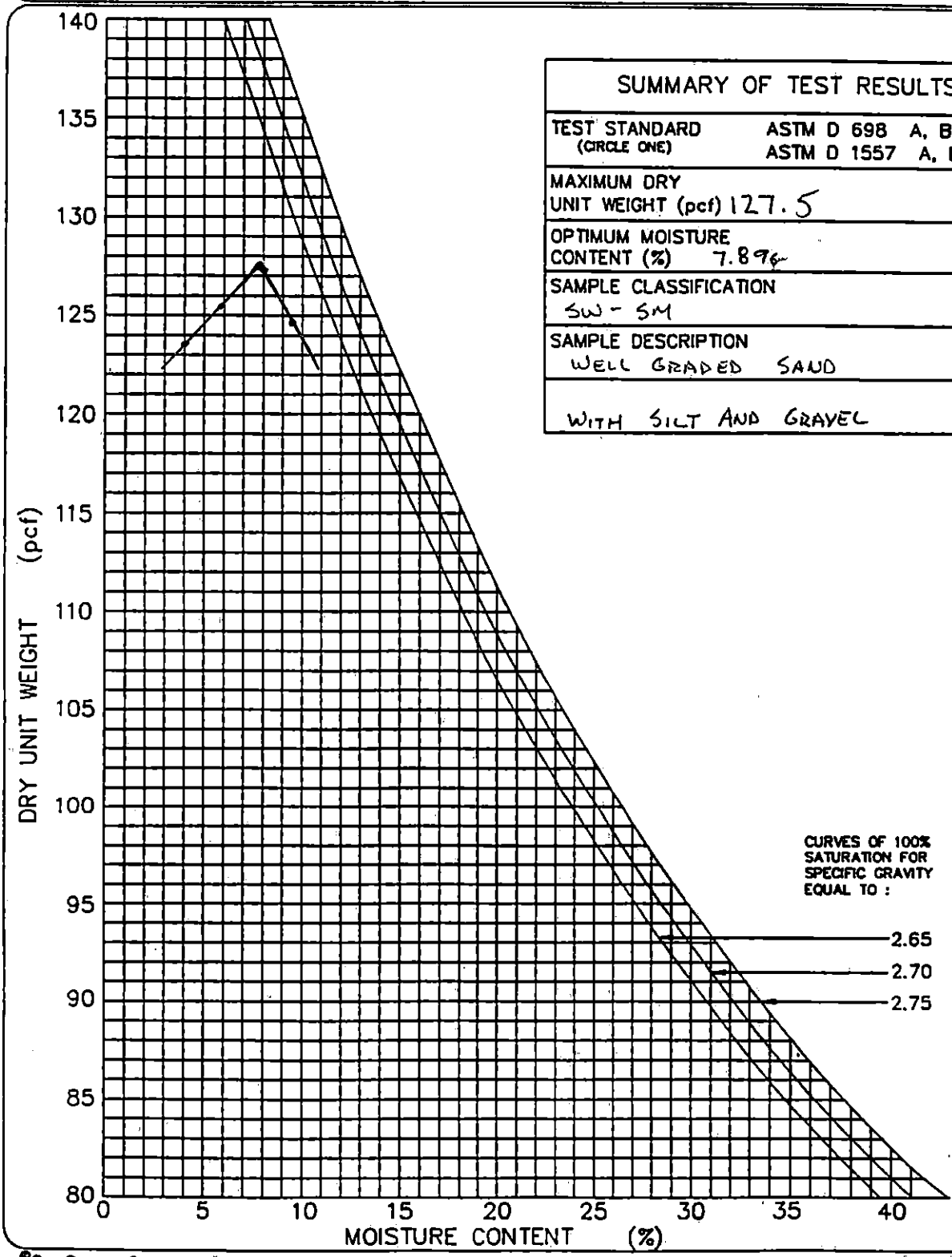
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-102 QA ID: PJR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	127.5
OPTIMUM MOISTURE CONTENT (%)	7.8%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-103 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	2085.5	1829.6
WT. OF TARE	(grams)	16.8	16.9
WT. OF DRY SAMPLE	(grams)	2068.7	1812.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	71.1	3.4	96.6	
3/8"	9.5	147.7	7.1	92.9	
4	4.75	355.5	17.2	82.8	
10	2.0	535.6	25.9	74.1	
20	0.850	812.2	39.3	60.7	
40	0.425	1365.2	66.0	34.0	
60	0.250	1663.4	80.4	19.6	
100	0.150	1764.3	85.3	14.7	
200	0.075	1811.9	87.6	12.4	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

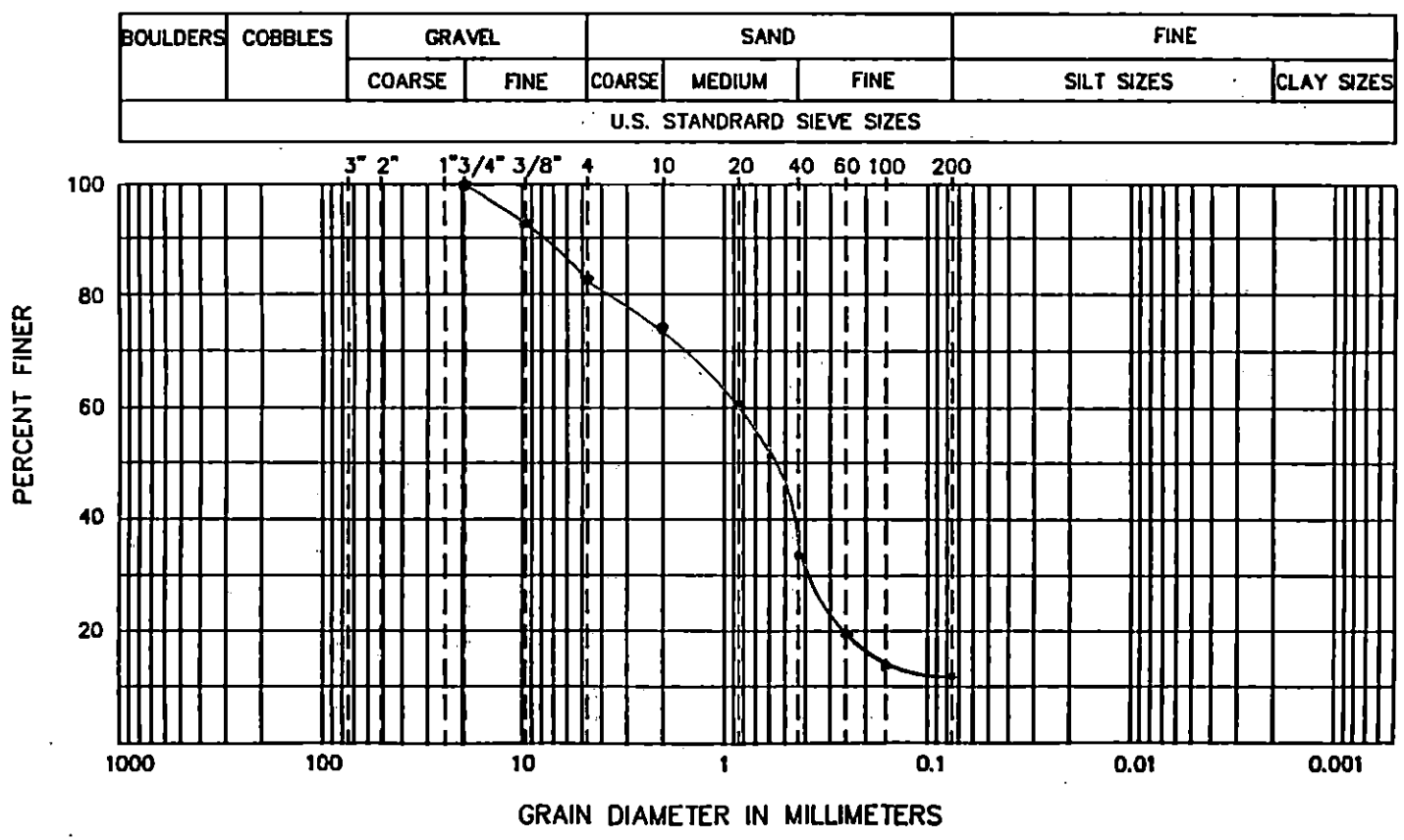
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 07 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-103 — QA ID: JAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.6
3/8-in.	92.9
NO. 4	82.8
NO. 10	74.1
NO. 20	60.7
NO. 40	34.0
NO. 60	19.6
NO. 100	14.7
NO. 200	12.4

SOIL CLASSIFICATION (ASTM D 2487): SM SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-103 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10364	10519	10630	10584	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4519	4674	4785	4739	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.1	135.5	138.8	137.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.6	128.0	128.6	126.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.1	8.2	
G	WT. OF WET SOIL & TARE	(grams)	634.6	597.9	591.2	539.1	
H	WT. OF DRY SOIL & TARE	(grams)	608.1	565.1	548.3	496.9	
I	WT. OF WATER = G - H	(grams)	26.5	32.8	42.9	42.2	
J	WT. DRY SOIL = H - F	(grams)	600.1	557.1	540.2	488.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.4%	5.9%	7.9%	8.6%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

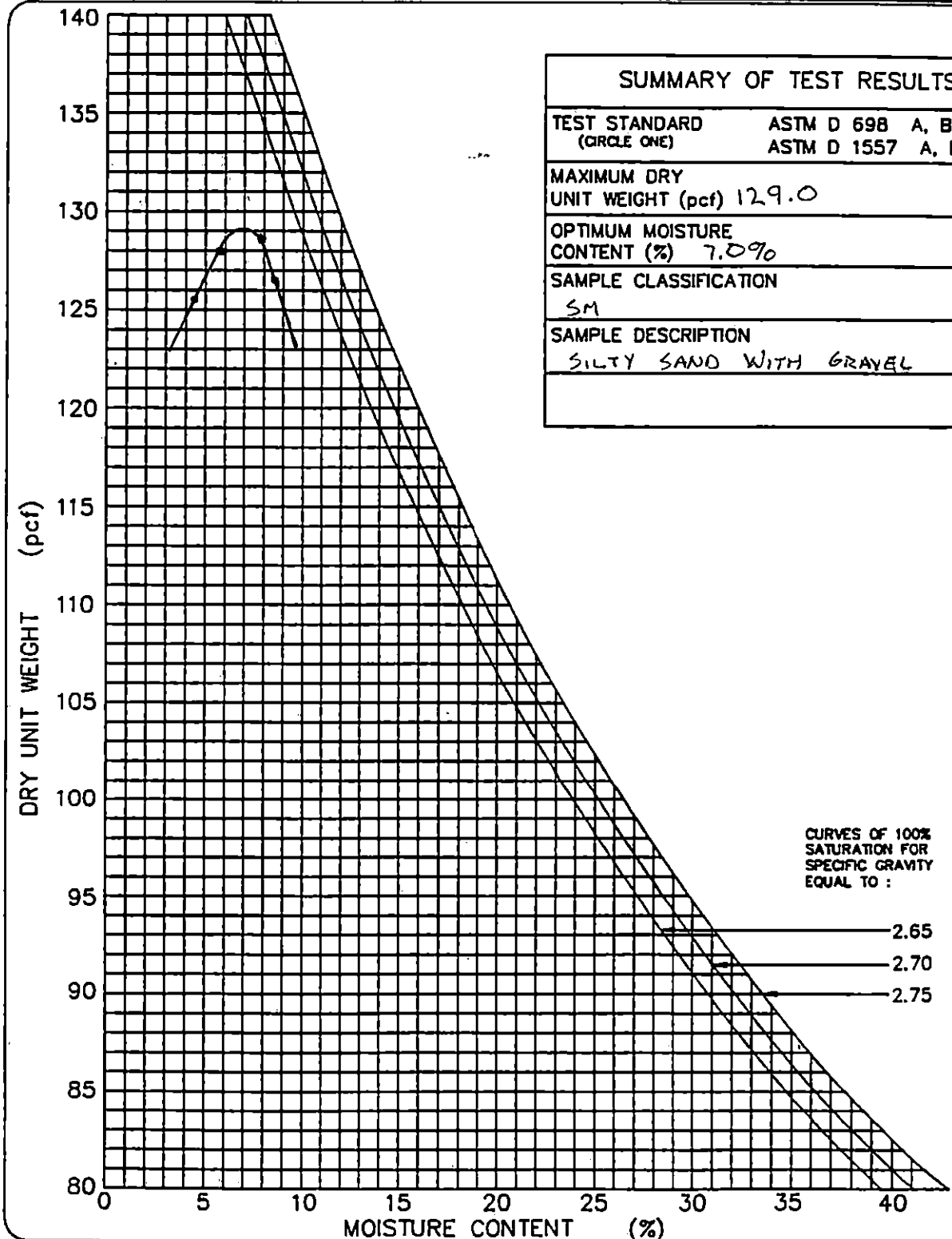
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-103 QA ID: PAR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.0
OPTIMUM MOISTURE CONTENT (%)	7.0%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 09 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-104 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1789.3	1545.1
WT. OF TARE	(grams)	17.0	17.0
WT. OF DRY SAMPLE	(grams)	1772.3	1528.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	49.0	2.8	97.2	
3/8"	9.5	102.3	5.8	94.2	
4	4.75	241.5	13.6	86.4	
10	2.0	397.3	22.4	77.6	
20	0.850	622.8	35.1	64.9	
40	0.425	1045.7	59.0	41.0	
60	0.250	1369.4	77.3	22.7	
100	0.150	1482.2	83.6	16.4	
200	0.075	1527.5	86.2	13.8	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

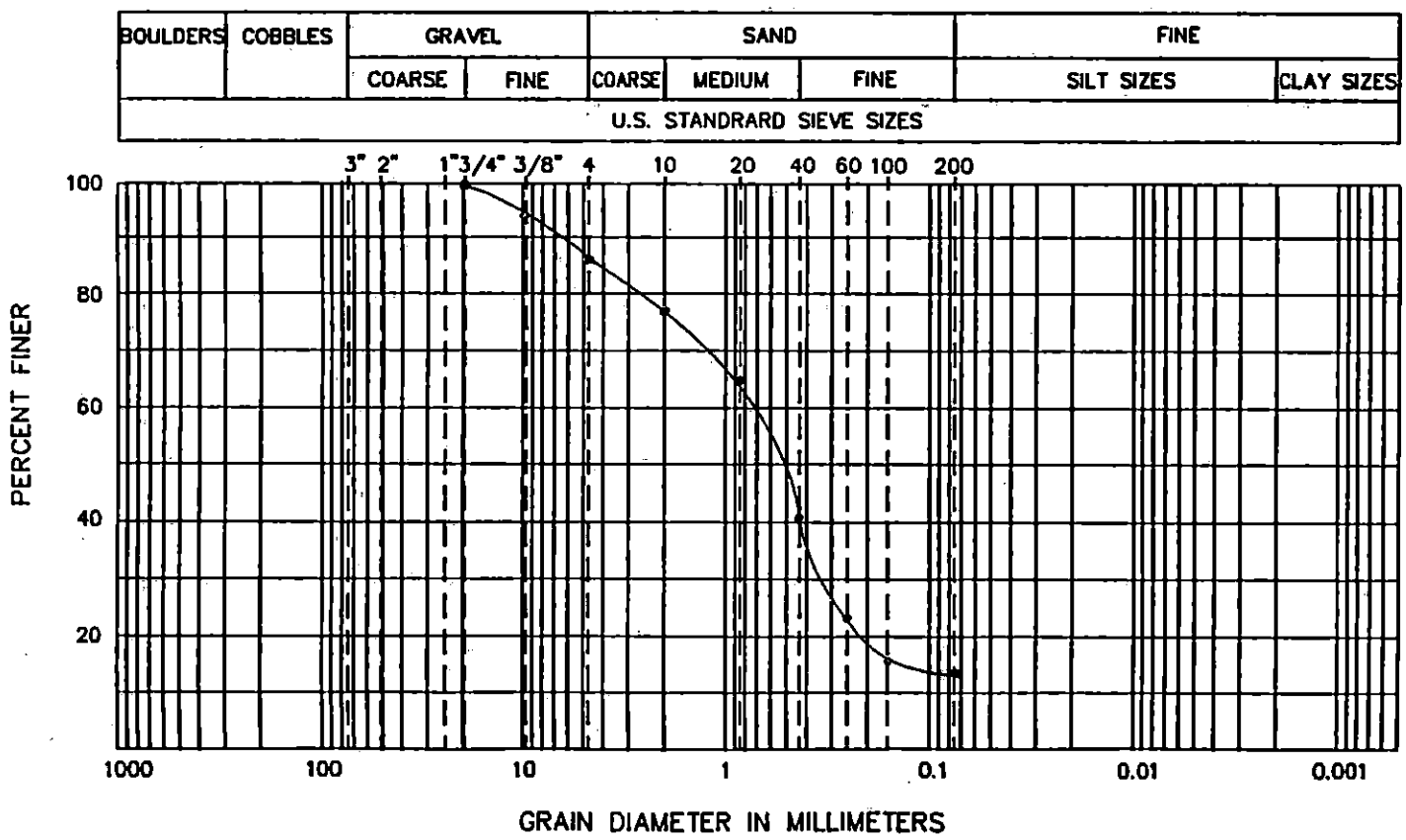
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-104 QA ID: ≥1R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.2
3/8-in.	94.2
NO. 4	86.4
NO. 10	77.6
NO. 20	64.9
NO. 40	41.0
NO. 60	22.7
NO. 100	16.4
NO. 200	13.8

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-104 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10220	10509	10661	10583	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4375	4664	4816	4738	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	126.9	135.3	139.7	137.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.4	127.6	129.7	126.2	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.2	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	603.9	540.5	615.9	586.1	
H	WT. OF DRY SOIL & TARE	(grams)	582.4	510.6	572.5	538.9	
I	WT. OF WATER = G - H	(grams)	21.5	29.9	43.4	47.2	
J	WT. DRY SOIL = H - F	(grams)	574.5	502.4	564.5	530.6	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.7%	6.0%	7.7%	8.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

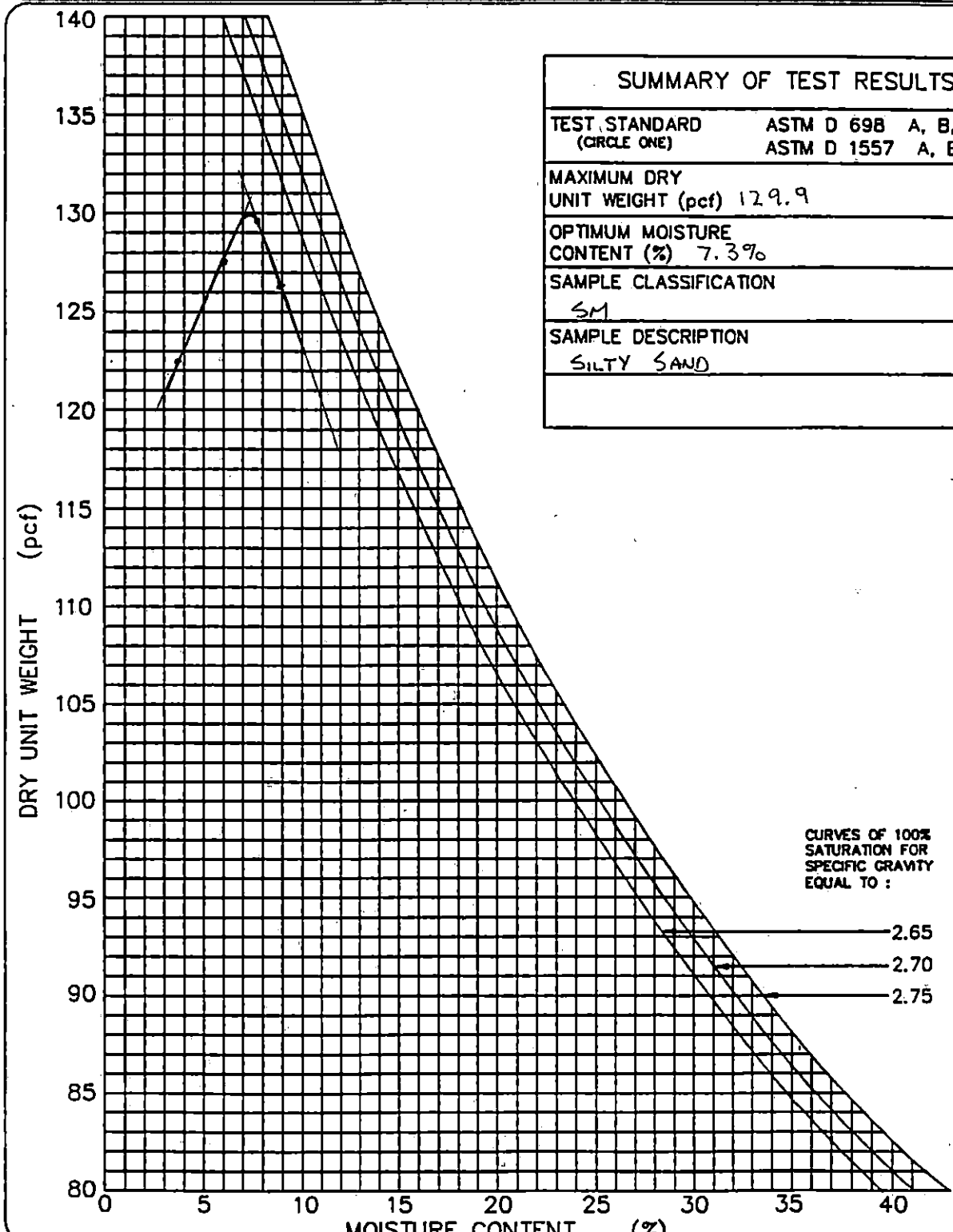
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-104 QA ID: DJR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.9
OPTIMUM MOISTURE CONTENT (%)	7.3%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-105 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1931.6	1742.8
WT. OF TARE	(grams)	17.1	15.5
WT. OF DRY SAMPLE	(grams)	1914.5	1727.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	68.9	3.6	96.4	
3/8"	9.5	139.8	7.3	92.6	
4	4.75	317.8	16.6	83.4	
10	2.0	482.5	25.2	74.8	
20	0.850	740.9	38.7	61.3	
40	0.425	1162.1	60.7	39.3	
60	0.250	1535.4	80.2	19.8	
100	0.150	1661.8	86.8	13.2	
200	0.075	1726.9	90.2	9.8	

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

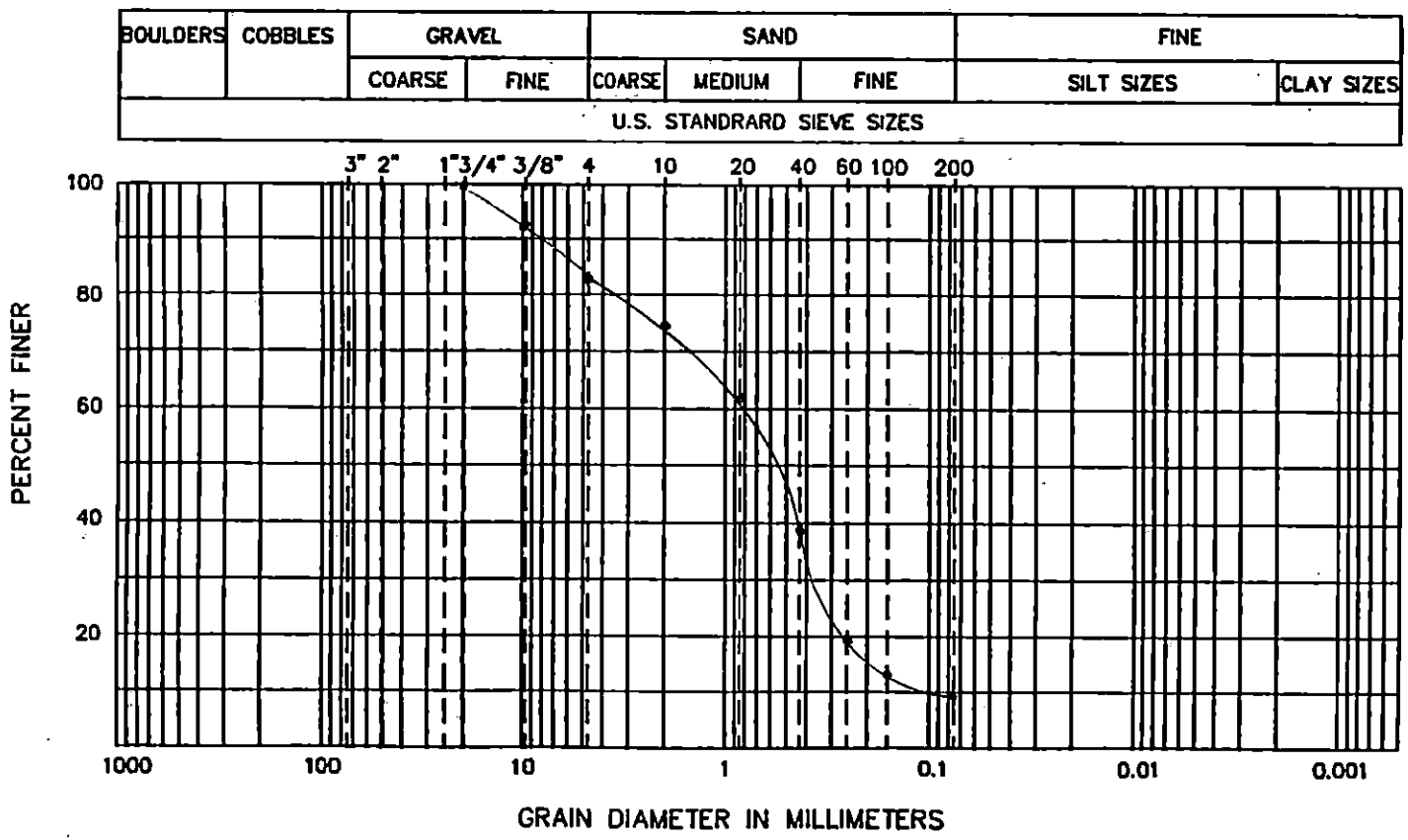
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-105 QA ID: PJR



CURVE COEFFICIENTS

(C_u) 8.1

(C_c) 1.9

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.4
3/8-in.	92.6
NO. 4	83.4
NO. 10	74.8
NO. 20	61.3
NO. 40	39.3
NO. 60	19.8
NO. 100	13.2
NO. 200	9.8

SOIL CLASSIFICATION (ASTM D 2487): SW-SM & WELL GRADED SAND WITH ~~ORGANIC~~ SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 11 day 69 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-105 — QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10255	10504	10617	10562	
B	WT. OF MOLD	(grams)	5845	5845	6845	5845	
C	WT. OF SOIL = A - B	(grams)	4410	4659	4772	4717	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.9	135.1	138.4	136.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.0	127.6	127.9	124.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.2	8.1	8.1	8.0	
G	WT. OF WET SOIL & TARE	(grams)	464.4	492.7	494.7	457.7	
H	WT. OF DRY SOIL & TARE	(grams)	446.9	465.7	457.8	418.7	
I	WT. OF WATER = G - H	(grams)	17.5	27.0	36.9	39.0	
J	WT. DRY SOIL = H - F	(grams)	438.7	457.6	449.7	410.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.0%	5.9%	8.2%	9.5%	

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

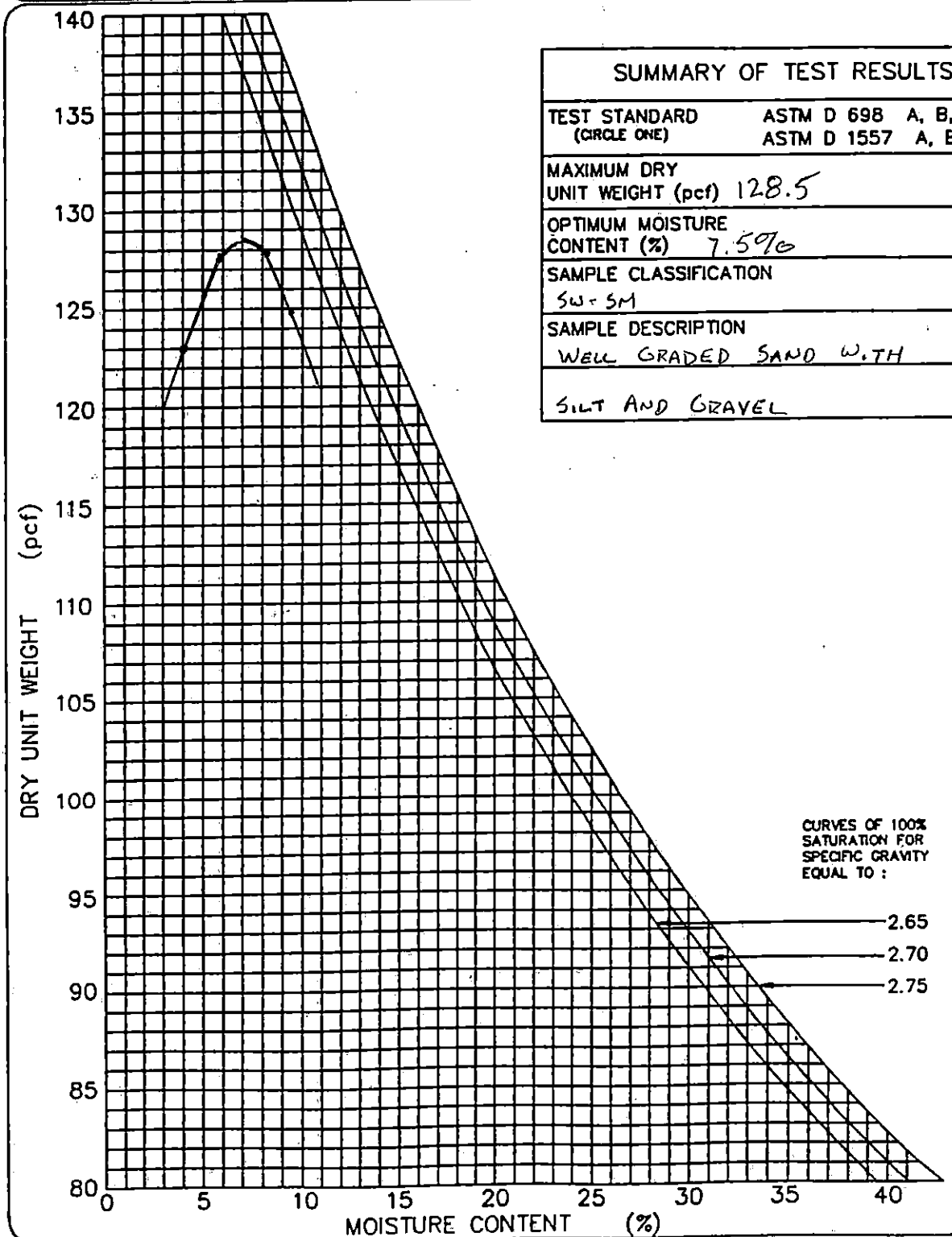
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-105 QA ID: DAR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.5
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 09 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-106 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1871.3	1640.5
WT. OF TARE	(grams)	16.9	17.1
WT. OF DRY SAMPLE	(grams)	1854.4	1623.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	77.9	4.2	95.8	
3/8"	9.5	148.4	8.0	92.0	
4	4.75	350.5	18.9	81.1	
10	2.0	554.5	29.9	70.1	
20	0.850	758.4	40.9	59.1	
40	0.425	1147.9	61.9	38.1	
60	0.250	1429.7	77.1	22.9	
100	0.150	1565.1	84.4	15.6	
200	0.075	1622.6	87.5	12.5	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

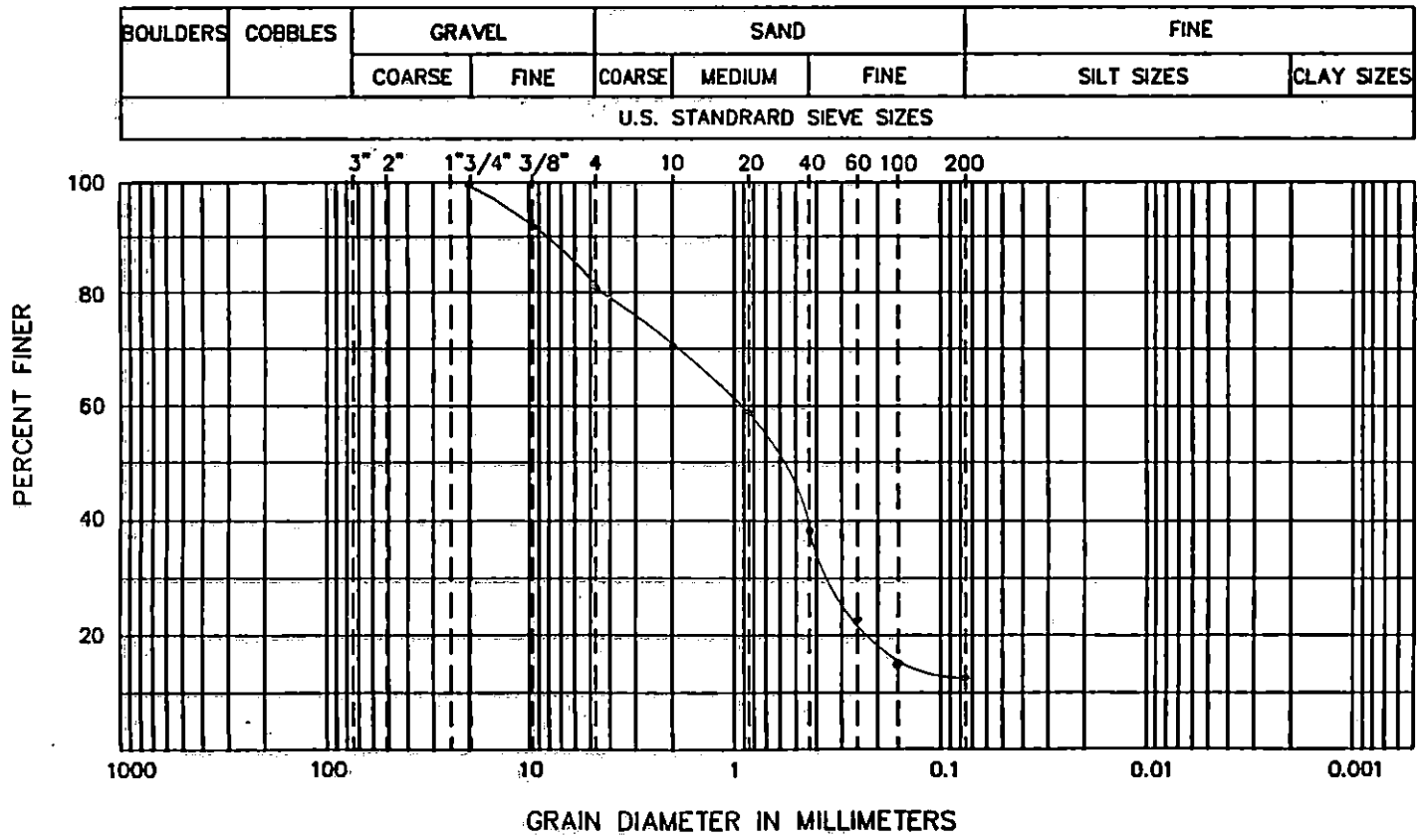
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-106 QA ID: P/R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.8
3/8-in.	92.0
NO. 4	81.1
NO. 10	70.1
NO. 20	59.1
NO. 40	38.1
NO. 60	22.9
NO. 100	15.6
NO. 200	12.5

SOIL CLASSIFICATION (ASTM D 2487): SM SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-106 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10431	10576	10659	10628	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4586	4731	4814	4783	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.0	137.2	139.6	138.7	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.4	129.2	128.7	126.3	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.8	8.0	7.9	8.1	
G	WT. OF WET SOIL & TARE	(grams)	512.0	541.8	639.0	665.7	
H	WT. OF DRY SOIL & TARE	(grams)	487.1	510.6	589.6	607.0	
I	WT. OF WATER = G - H	(grams)	24.9	31.2	49.4	58.7	
J	WT. DRY SOIL = H - F	(grams)	479.3	502.6	581.7	598.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.2%	6.2%	8.5%	9.8%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

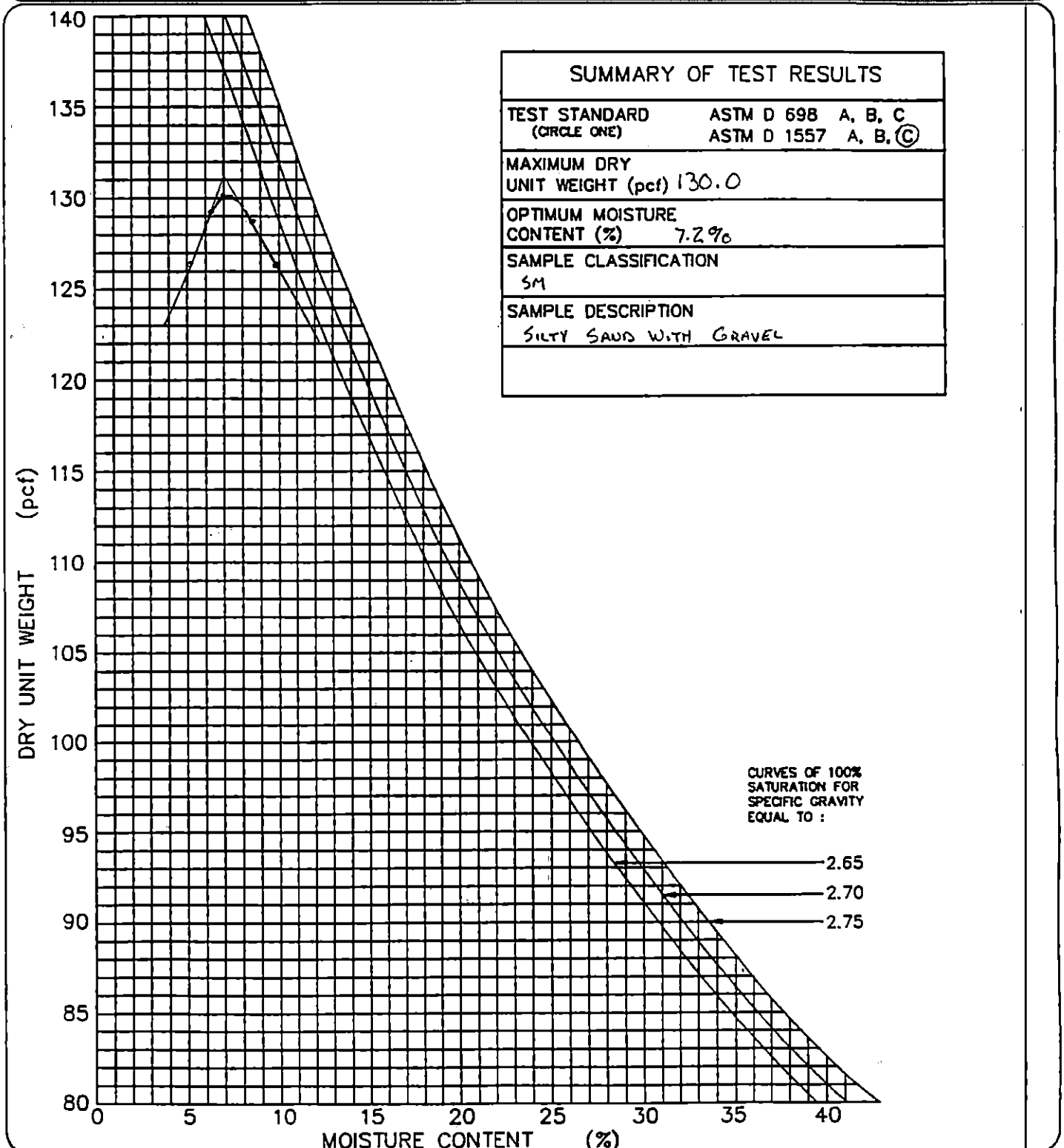
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-106 QA ID: D1R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.0
OPTIMUM MOISTURE CONTENT (%)	7.2%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 09 month 95 year

SOURCE: R.SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-107 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1652.5	1492.6
WT. OF TARE	(grams)	17.8	17.8
WT. OF DRY SAMPLE	(grams)	1634.7	1474.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	57.2	3.5	96.5	
3/8"	9.5	150.4	9.2	90.8	
4	4.75	305.7	18.7	81.3	
10	2.0	423.4	25.9	74.1	
20	0.850	658.8	40.3	59.7	
40	0.425	990.6	60.6	39.4	
60	0.250	1319.2	80.7	19.3	
100	0.150	1423.8	87.1	12.9	
200	0.075	1474.5	90.2	9.8	

%FINER = 100 − Σ% RETAINED

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GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

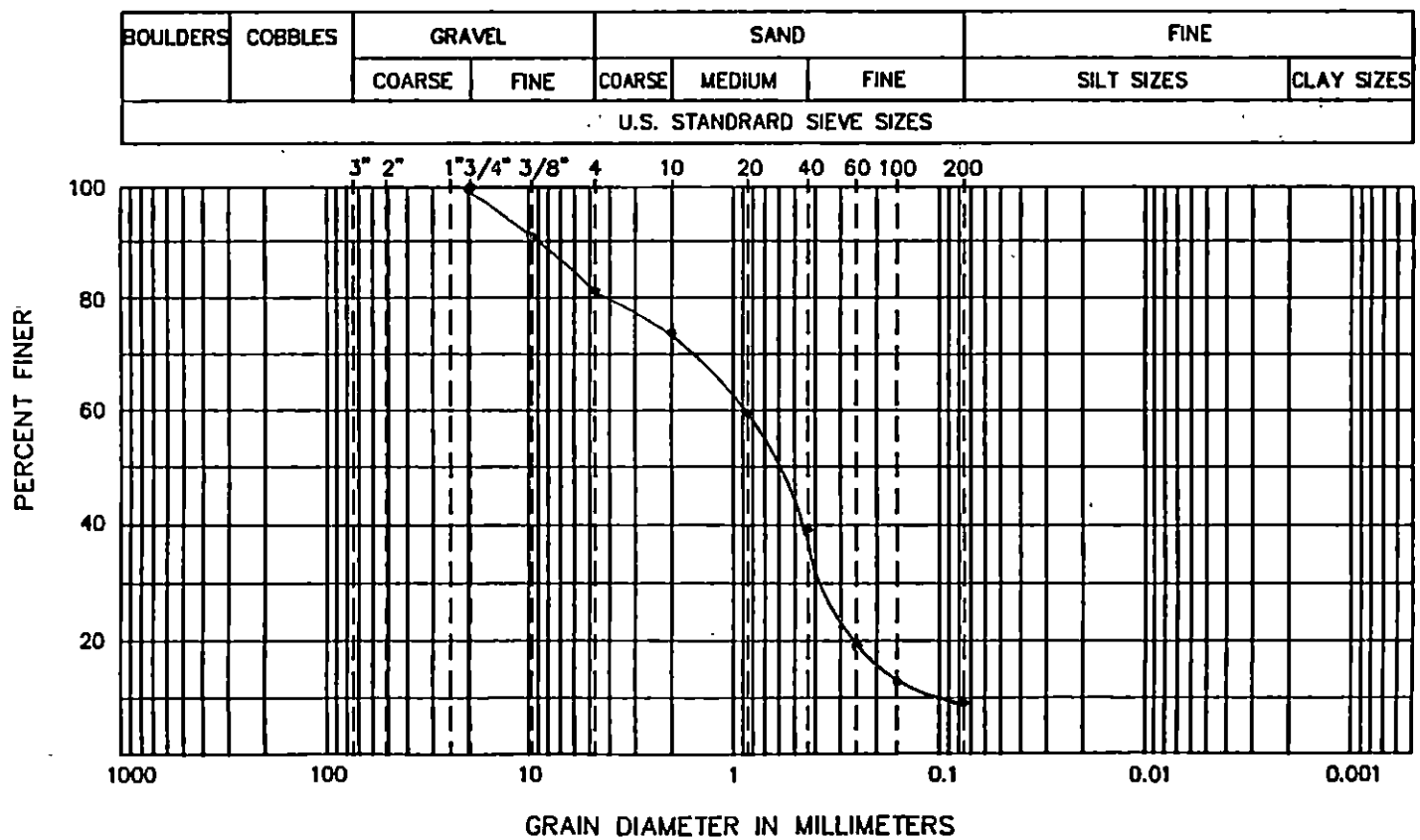
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 13 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-107 — QA ID: P/R



CURVE COEFFICIENTS

(C_u) 8.8

(C_c) 1.8

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.5
3/8-in.	90.8
NO. 4	81.3
NO. 10	74.1
NO. 20	59.7
NO. 40	39.4
NO. 60	19.3
NO. 100	12.9
NO. 200	9.8

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 13 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-107 — QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10273	10428	10545	10535	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4428	4583	4700	4690	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.4	132.9	136.3	136.0	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.3	125.1	125.3	123.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.3	8.2	8.1	
G	WT. OF WET SOIL & TARE	(grams)	536.1	526.1	479.2	518.3	
H	WT. OF DRY SOIL & TARE	(grams)	515.3	495.9	441.1	471.5	
I	WT. OF WATER = G - H	(grams)	20.8	30.2	38.1	46.8	
J	WT. DRY SOIL = H - F	(grams)	507.3	487.6	432.9	463.4	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.1%	6.2%	8.8%	10.1%	

GeoSyntec Consultants

TOWN OF HUNTINGTON

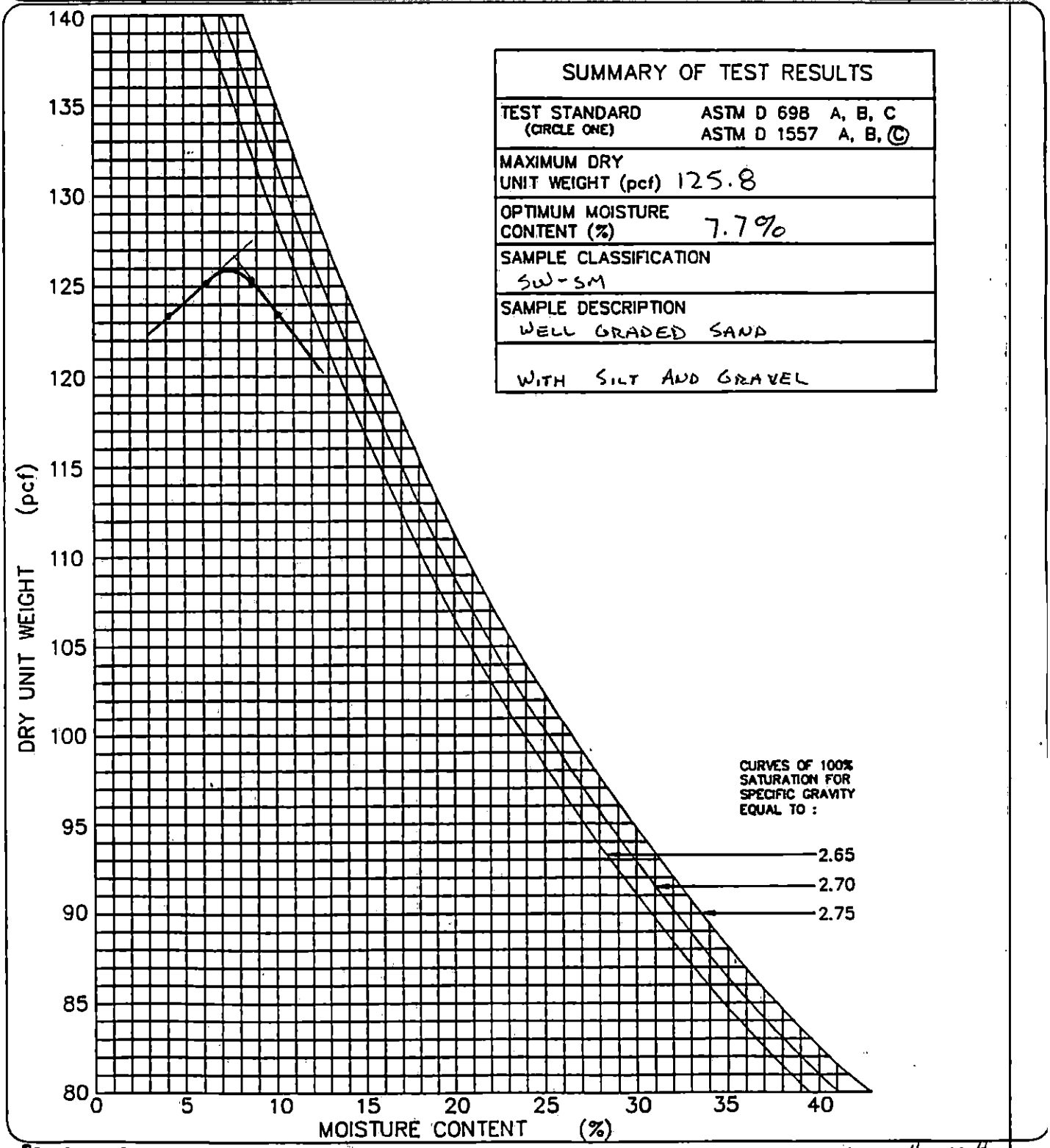
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-107 QA ID: 91R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	125.8
OPTIMUM MOISTURE CONTENT (%)	7.7%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND
	WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 09 month 95 year

SOURCE: R. SCHLEIPER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-108 QA ID: PAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1781.0	1605.6
WT. OF TARE	(grams)	17.6	19.8
WT. OF DRY SAMPLE	(grams)	1763.4	1585.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	54.7	3.1	96.9	
3/8"	9.5	119.9	6.8	93.2	
4	4.75	276.9	15.7	84.3	
10	2.0	437.3	24.8	75.2	
20	0.850	710.7	40.3	59.7	
40	0.425	1109.2	62.9	37.1	
60	0.250	1403.7	79.6	20.4	
100	0.150	1514.8	85.9	14.1	
200	0.075	1585.3	89.9	10.1	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

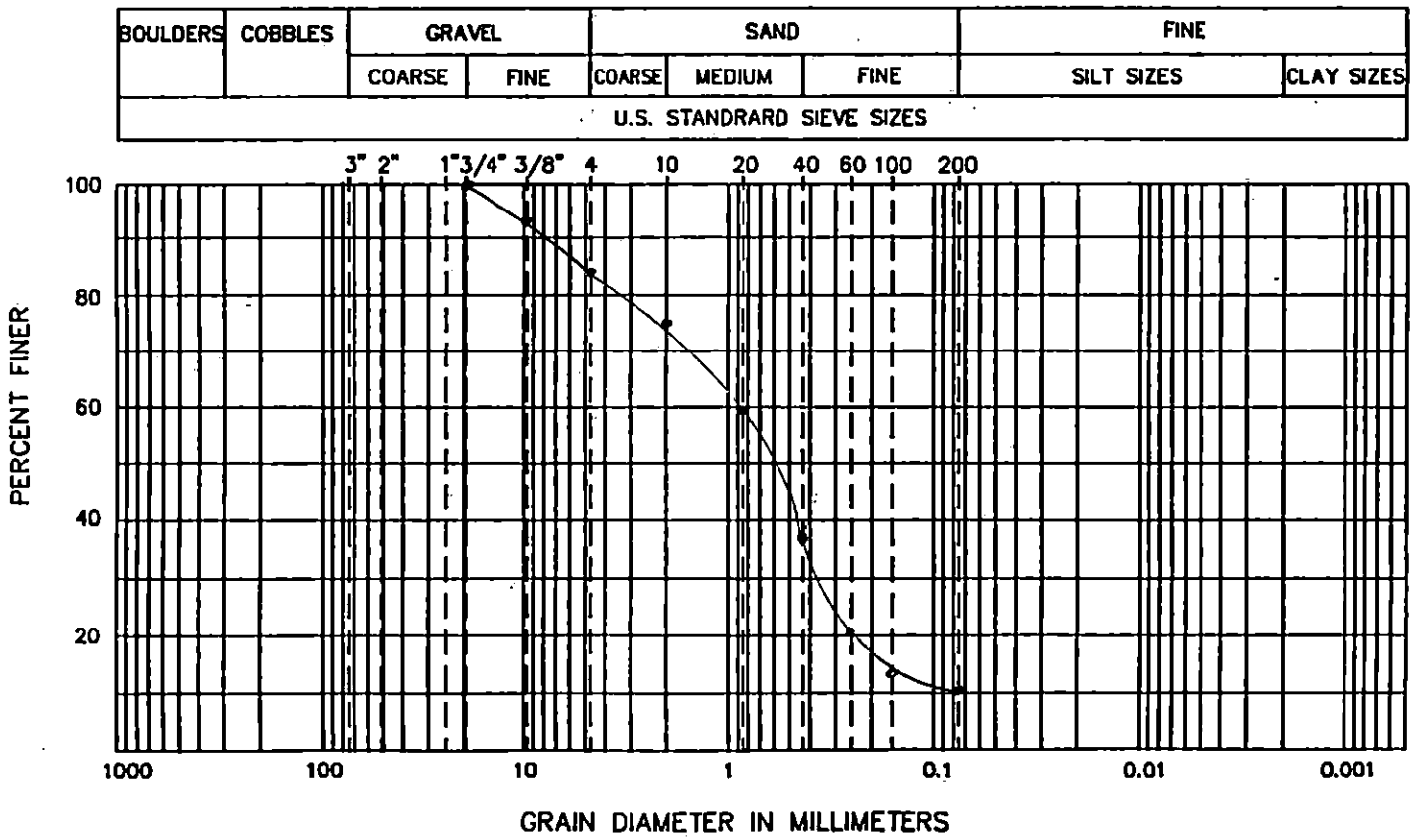
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-108 QA ID: 2/R



CURVE COEFFICIENTS

(C_u) 12.4

(C_c) 2.4

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.9
3/8-in.	93.2
NO. 4	84.3
NO. 10	75.2
NO. 20	59.7
NO. 40	37.1
NO. 60	20.4
NO. 100	14.1
NO. 200	10.1

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 14 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-108 — QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10317	10431	10569	10548	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4472	4586	4724	4703	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.7	133.0	137.0	136.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.1	125.6	126.3	123.8	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.3	8.2	8.0	8.1	
G	WT. OF WET SOIL & TARE	(grams)	538.4	535.2	530.3	530.1	
H	WT. OF DRY SOIL & TARE	(grams)	515.6	505.8	489.4	481.8	
I	WT. OF WATER = G - H	(grams)	22.8	29.4	40.9	48.3	
J	WT. DRY SOIL = H - F	(grams)	507.3	497.6	481.4	473.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.5%	5.9%	8.5%	10.2%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

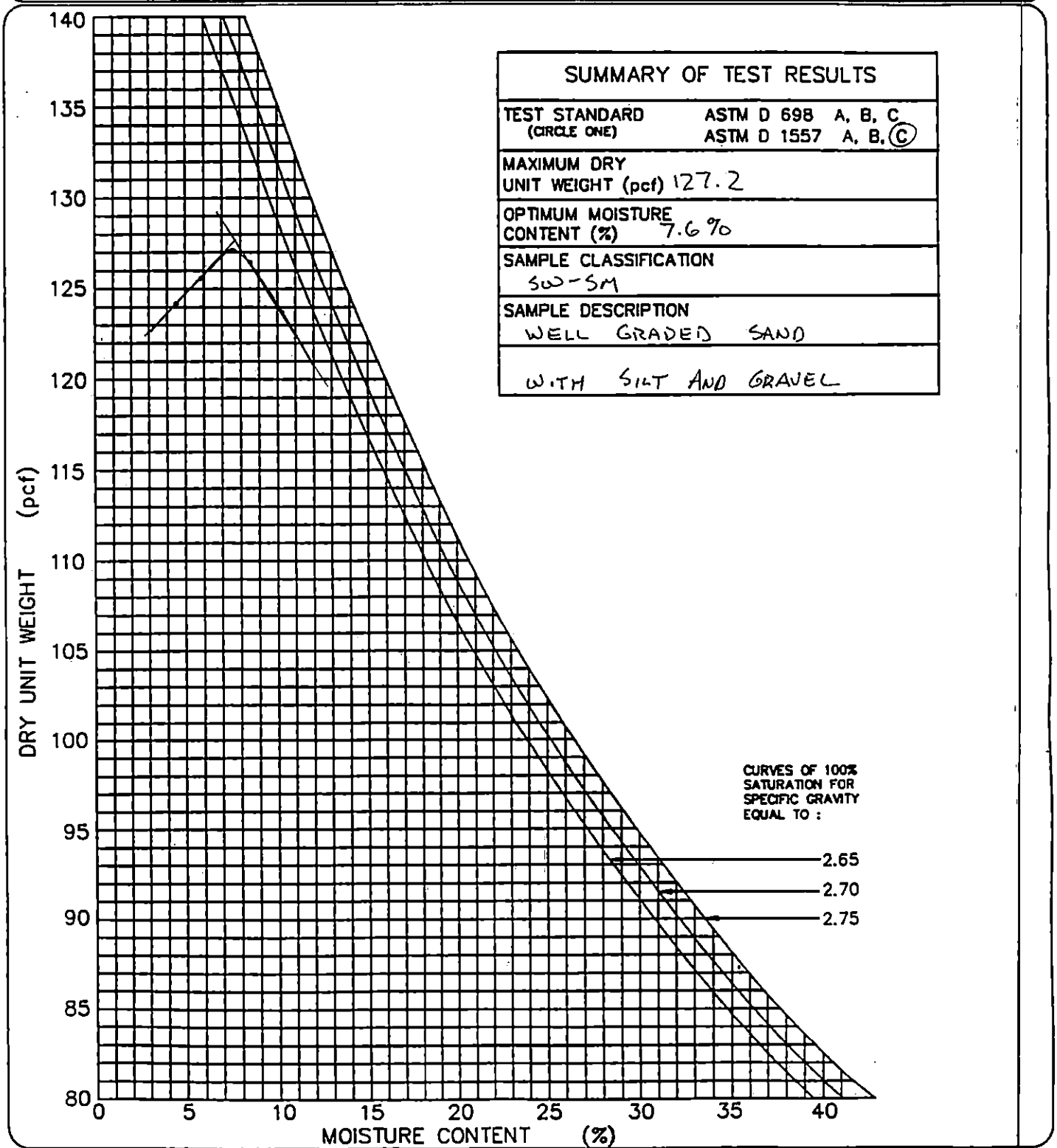
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-108 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	127.2
OPTIMUM MOISTURE CONTENT (%)	7.6%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day ____ month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-109 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1752.9	1524.0
WT. OF TARE	(grams)	16.5	16.6
WT. OF DRY SAMPLE	(grams)	1736.4	1507.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	62.5	3.6	96.4	
3/8"	9.5	121.5	7.0	93.0	
4	4.75	267.4	15.4	84.6	
10	2.0	507.0	29.2	71.8	
20	0.850	708.5	40.8	59.2	
40	0.425	1083.5	62.4	37.6	
60	0.250	1354.4	78.0	22.0	
100	0.150	1463.8	84.3	15.7	
200	0.075	1507.2	86.8	13.2	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

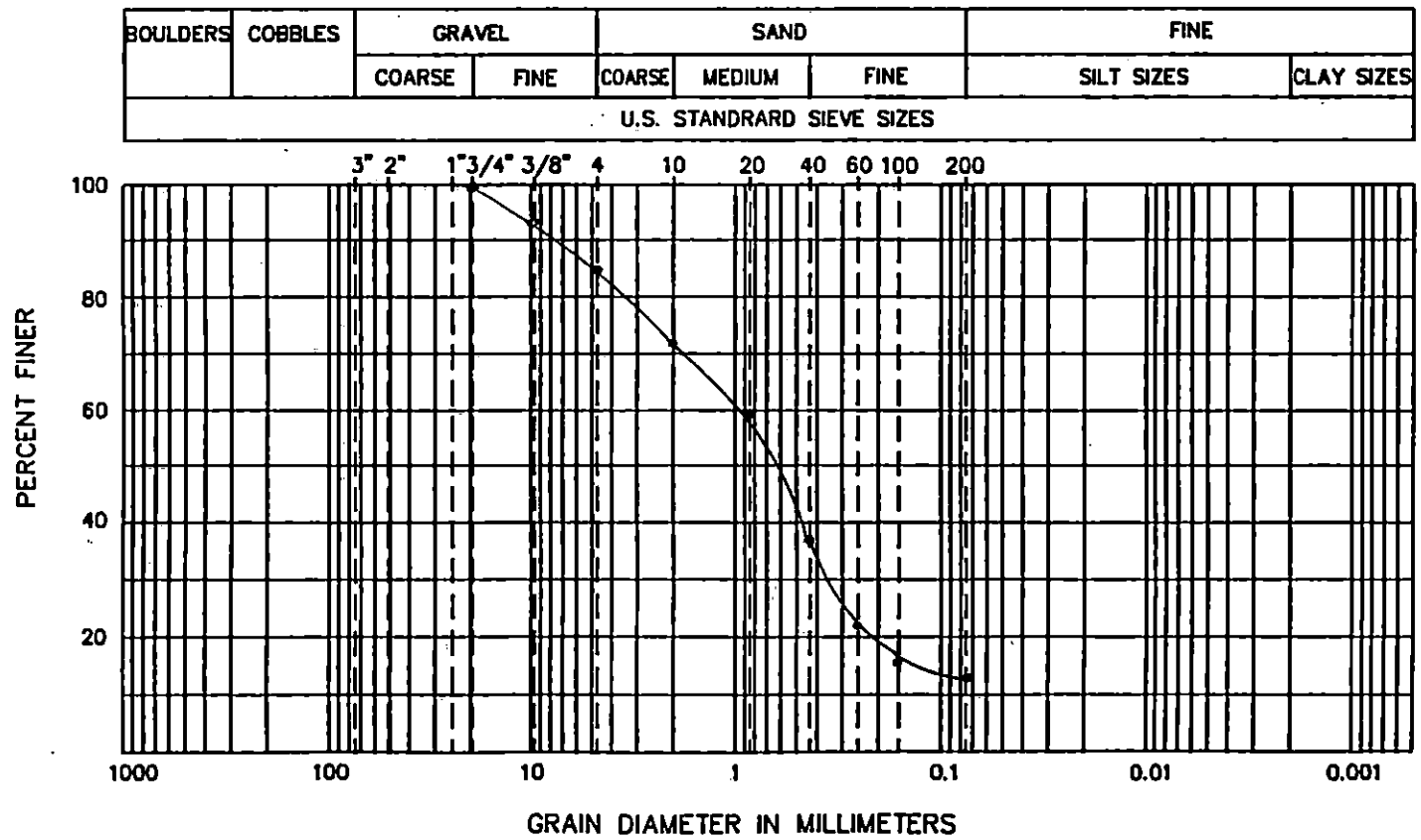
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-109 QA ID: DJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.4
3/8-in.	93.0
NO. 4	84.6
NO. 10	71.8
NO. 20	59.2
NO. 40	37.6
NO. 60	22.0
NO. 100	15.7
NO. 200	13.2

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 15 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-109 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10238	10507	10680	10628	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4393	4662	4835	4783	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.4	135.2	140.2	138.7	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.5	127.7	128.6	125.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.1	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	524.3	541.2	553.8	542.1	
H	WT. OF DRY SOIL & TARE	(grams)	504.4	511.5	508.7	491.4	
I	WT. OF WATER = G - H	(grams)	19.9	29.7	45.1	50.7	
J	WT. DRY SOIL = H - F	(grams)	496.3	503.4	500.7	483.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.0%	5.9%	9.0%	10.5%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

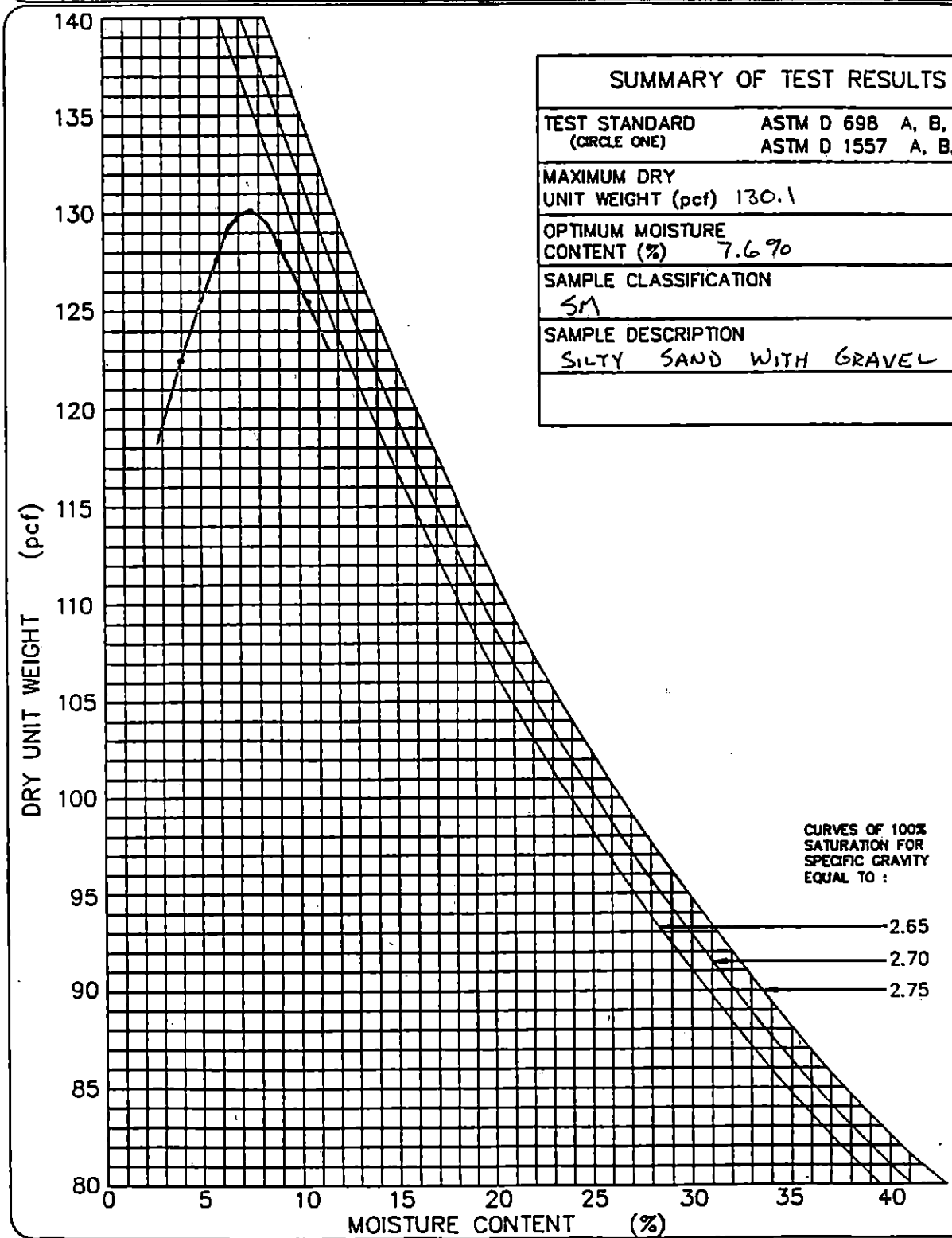
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-109 QA ID: P/R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.1
OPTIMUM MOISTURE CONTENT (%)	7.6%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-110 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1650.6	1423.9
WT. OF TARE	(grams)	15.9	16.1
WT. OF DRY SAMPLE	(grams)	1634.7	1407.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	39.2	2.4	97.6	
3/8"	9.5	67.0	4.1	95.9	
4	4.75	268.1	16.4	83.6	
10	2.0	439.7	26.9	73.1	
20	0.850	647.3	39.6	60.4	
40	0.425	982.5	60.1	39.9	
60	0.250	1226.0	75.0	25.0	
100	0.150	1342.1	82.1	17.9	
200	0.075	1407.5	86.1	13.9	

%FINER = 100 − Σ% RETAINED

©'00 SYNTEC CONSULTANTS FILE NO. 2-14-PVS

GeoSyntec Consultants

TOWN OF HUNTINGTON

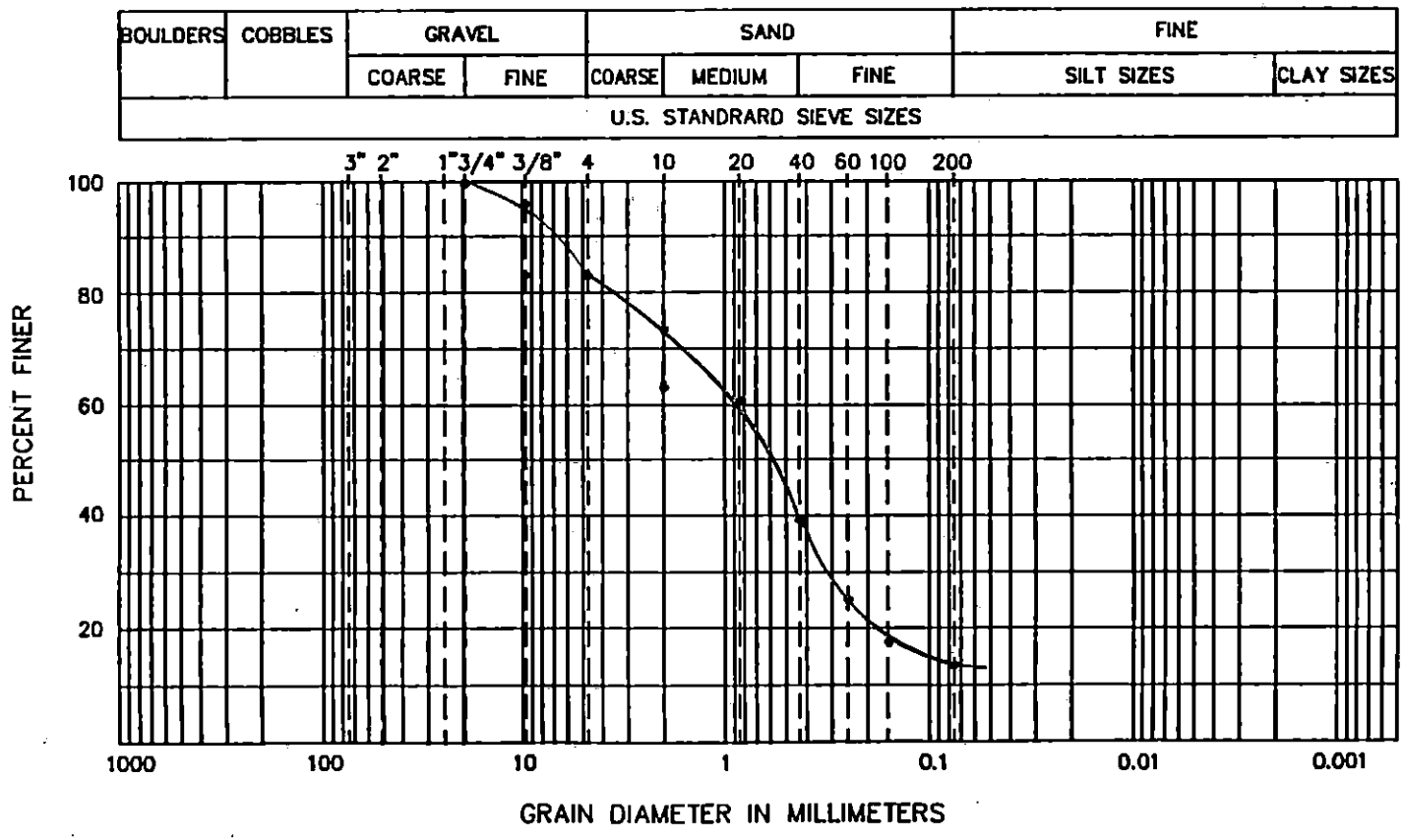
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-110 QA ID: 21R



CURVE COEFFICIENTS

(C_u) . . . . . .

(C_c) . . . . . .

ATTERBERG LIMITS

(LL) . . . . . .

(PL) . . . . . .

(PI) . . . . . .

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.6
3/8-in.	95.9
NO. 4	83.6
NO. 10	73.1
NO. 20	60.4
NO. 40	39.9
NO. 60	25.0
NO. 100	17.9
NO. 200	13.9

SOIL CLASSIFICATION (ASTM D 2487): SM SILTY SAND AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 18 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-110 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10259	10504	10614	10552	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4414	4659	4769	4707	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.0	135.1	138.3	136.5	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.1	127.7	127.5	124.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.1	8.2	8.0	
G	WT. OF WET SOIL & TARE	(grams)	489.8	436.3	532.9	502.5	
H	WT. OF DRY SOIL & TARE	(grams)	471.3	412.8	491.8	459.2	
I	WT. OF WATER = G - H	(grams)	18.5	23.5	41.1	43.3	
J	WT. DRY SOIL = H - F	(grams)	463.2	404.7	483.6	451.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.0%	5.8%	8.5%	9.6%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

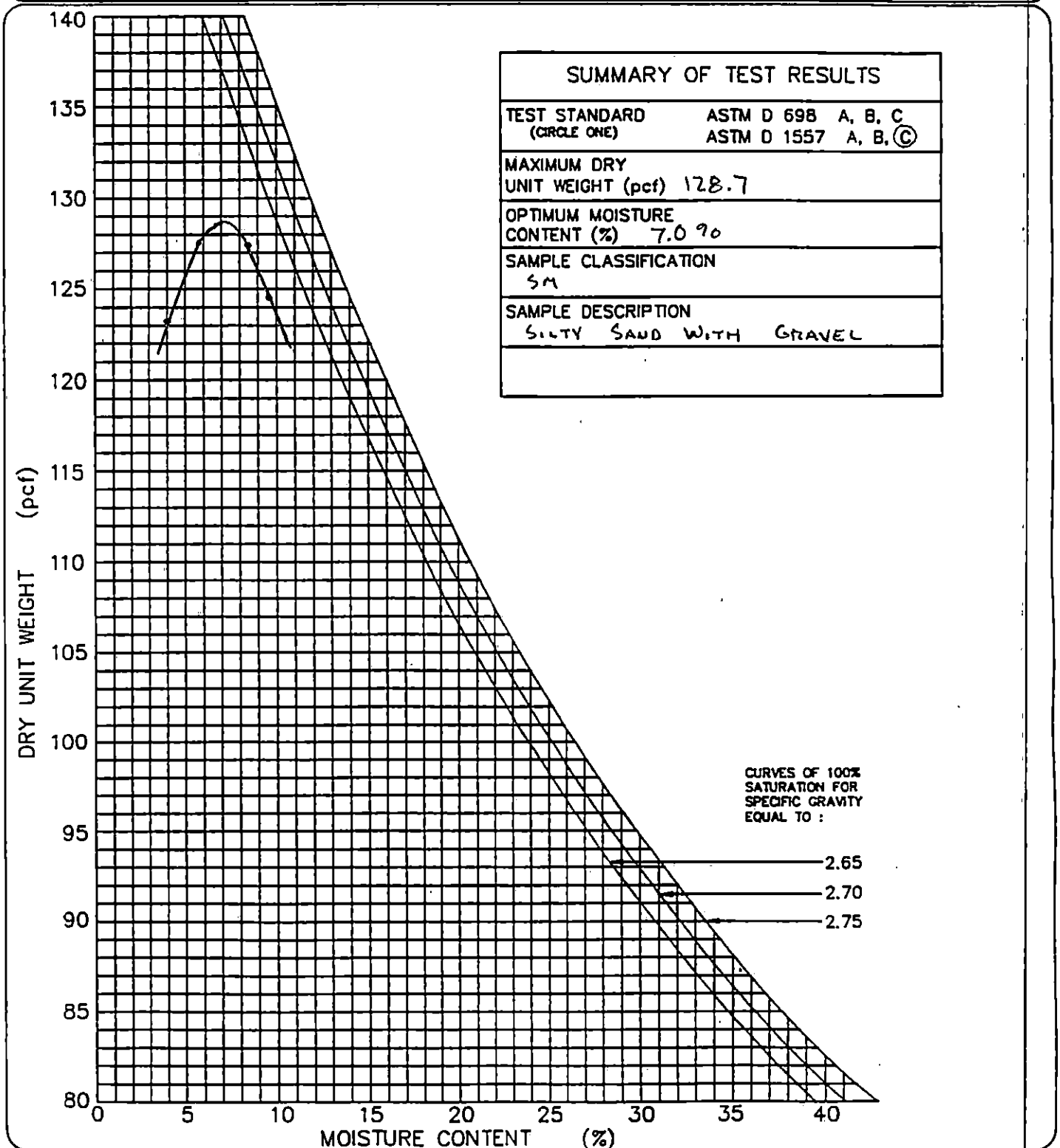
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SEL. SAMPLE NO.: S-110 QA ID: D/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.7
OPTIMUM MOISTURE CONTENT (%)	7.0 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-111 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1890.7	1714.6
WT. OF TARE	(grams)	17.2	15.9
WT. OF DRY SAMPLE	(grams)	1873.5	1698.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	88.2	4.7	95.3	
3/8"	9.5	141.7	7.6	92.4	
4	4.75	329.2	17.6	82.4	
10	2.0	511.6	27.3	72.7	
20	0.850	754.7	40.3	59.7	
40	0.425	1178.3	62.9	37.1	
60	0.250	1504.2	80.3	19.7	
100	0.150	1629.2	87.0	13.0	
200	0.075	1697.8	90.6	9.4	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

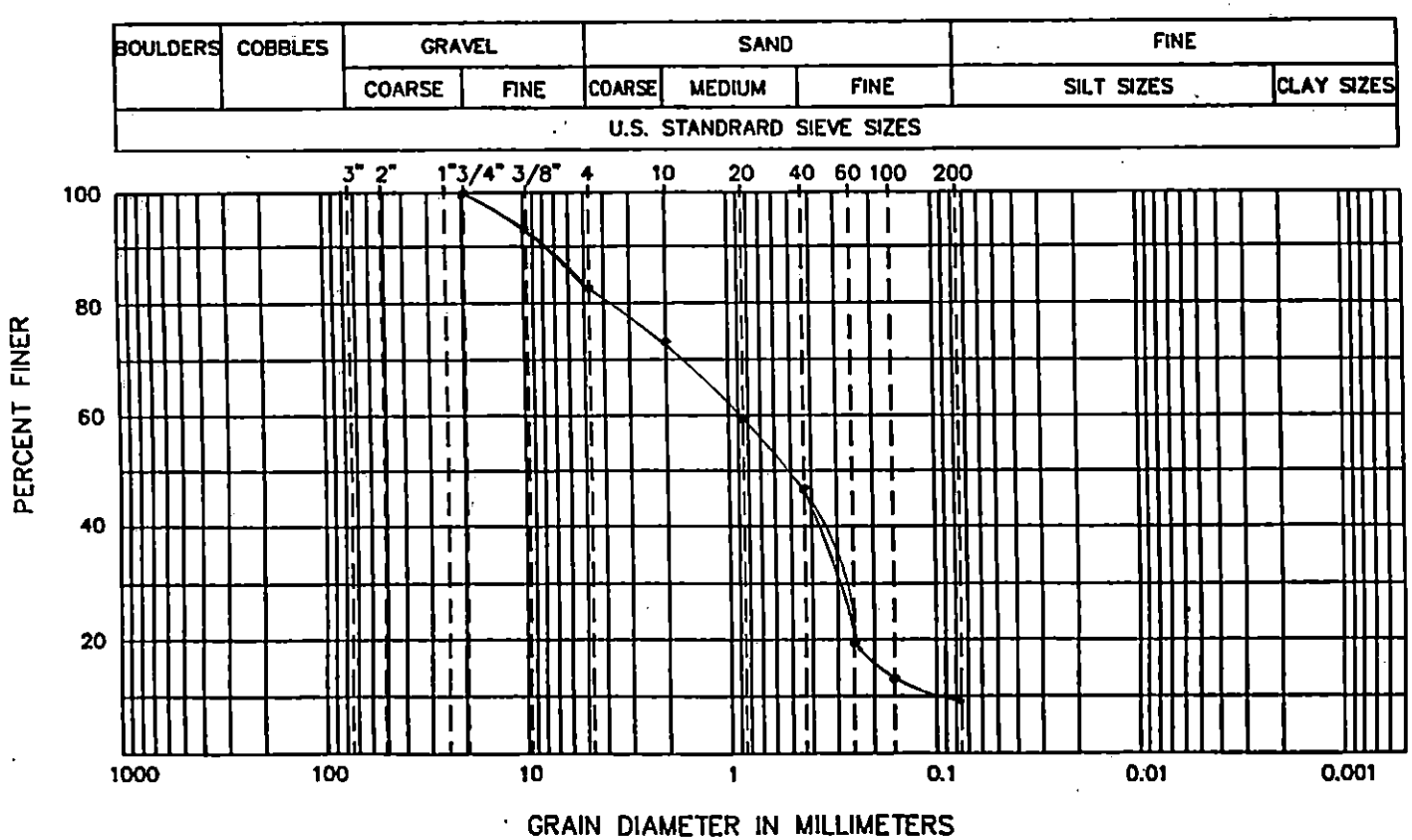
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-111 QA ID: DJR



CURVE COEFFICIENTS

(C_u) 8.9

(C_c) 1.0

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.3
3/8-in.	92.4
NO. 4	82.4
NO. 10	72.7
NO. 20	59.7
NO. 40	37.1
NO. 60	19.7
NO. 100	13.0
NO. 200	9.4

SOIL CLASSIFICATION (ASTM D 2487): SW - SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 19 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-111 — QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10224	10415	10460	10390	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4379	4570	4615	4545	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.0	132.5	133.8	131.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	121.3	124.4	124.3	120.7	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	541.2	568.9	605.1	572.1	
H	WT. OF DRY SOIL & TARE	(grams)	517.3	534.9	562.7	524.6	
I	WT. OF WATER = G - H	(grams)	23.9	34.0	42.4	47.5	
J	WT. DRY SOIL = H - F	(grams)	509.3	526.9	554.6	516.3	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.7%	6.5%	7.6%	9.2%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

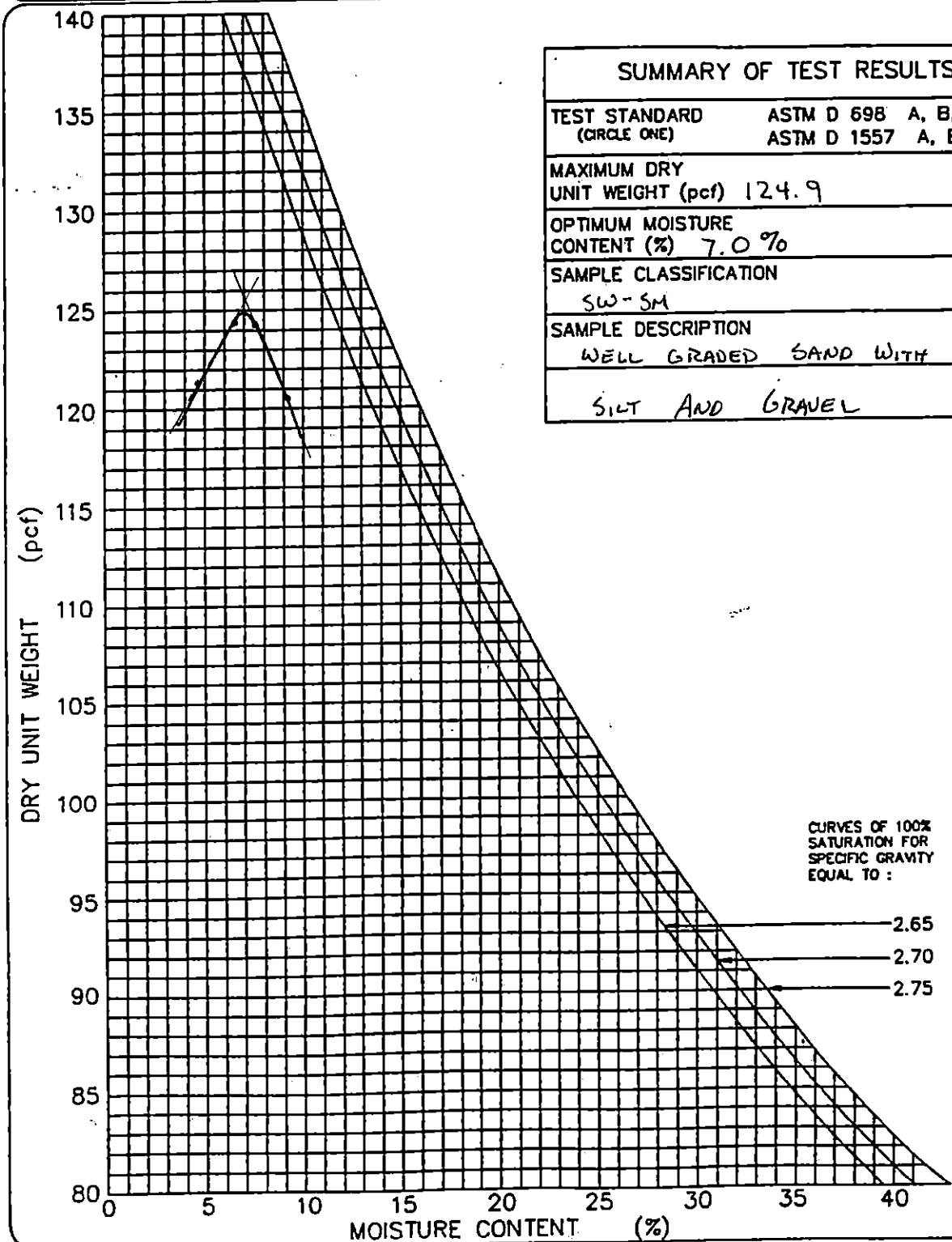
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-111 QA ID: FAR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	124.9
OPTIMUM MOISTURE CONTENT (%)	7.0 %
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 09 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-112 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1852.6	1675.6
WT. OF TARE	(grams)	17.1	15.8
WT. OF DRY SAMPLE	(grams)	1835.5	1659.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	88.4	4.8	95.2	
3/8"	9.5	151.3	8.2	91.8	
4	4.75	326.6	17.8	82.2	
10	2.0	507.3	27.6	72.4	
20	0.850	741.9	40.4	59.6	
40	0.425	1160.2	63.2	36.8	
60	0.250	1490.3	81.2	18.8	
100	0.150	1610.1	87.7	12.3	
200	0.075	1658.9	90.4	9.6	

%FINER = 100 − Σ% RETAINED

©GEOSYNTEC CONSULTANTS FILE NO. 2-14-PMS

GeoSyntec Consultants

TOWN OF HUNTINGTON

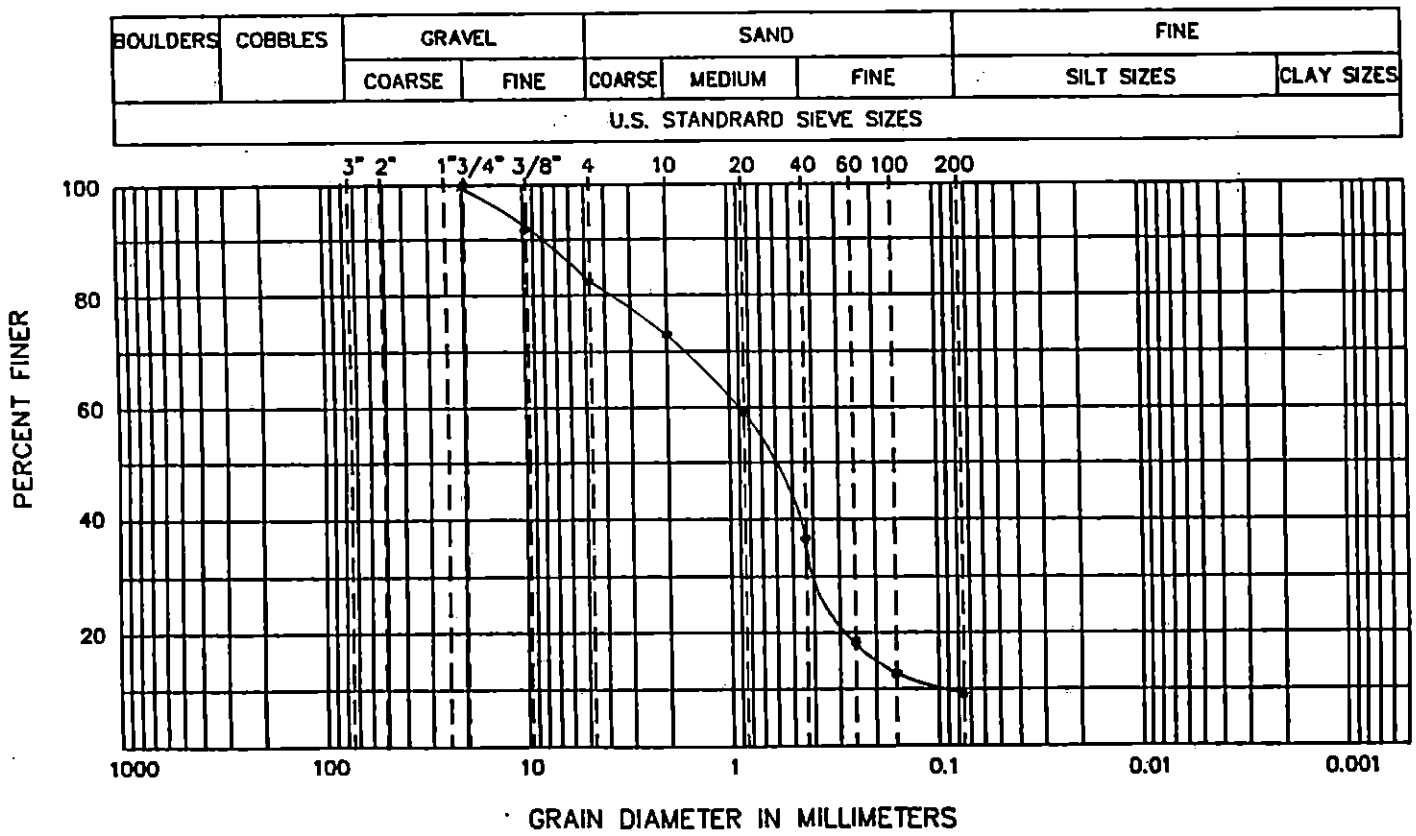
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 20 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-112 — QA ID: DJR



CURVE COEFFICIENTS

(C_u) 9.8

(C_c) 2.0

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.2
3/8-in.	91.8
NO. 4	82.2
NO. 10	72.4
NO. 20	59.6
NO. 40	36.8
NO. 60	18.8
NO. 100	12.3
NO. 200	9.6

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 20 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-112 — QA ID: 218

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10229	10374	10575	10550	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4384	4529	4730	4705	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.1	131.3	137.2	136.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.8	124.7	126.6	124.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.1	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	622.2	602.7	624.3	631.3	
H	WT. OF DRY SOIL & TARE	(grams)	601.6	572.9	576.3	575.2	
I	WT. OF WATER = G - H	(grams)	20.6	29.8	48.0	56.1	
J	WT. DRY SOIL = H - F	(grams)	593.7	564.8	568.3	566.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.5%	5.3%	8.4%	9.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

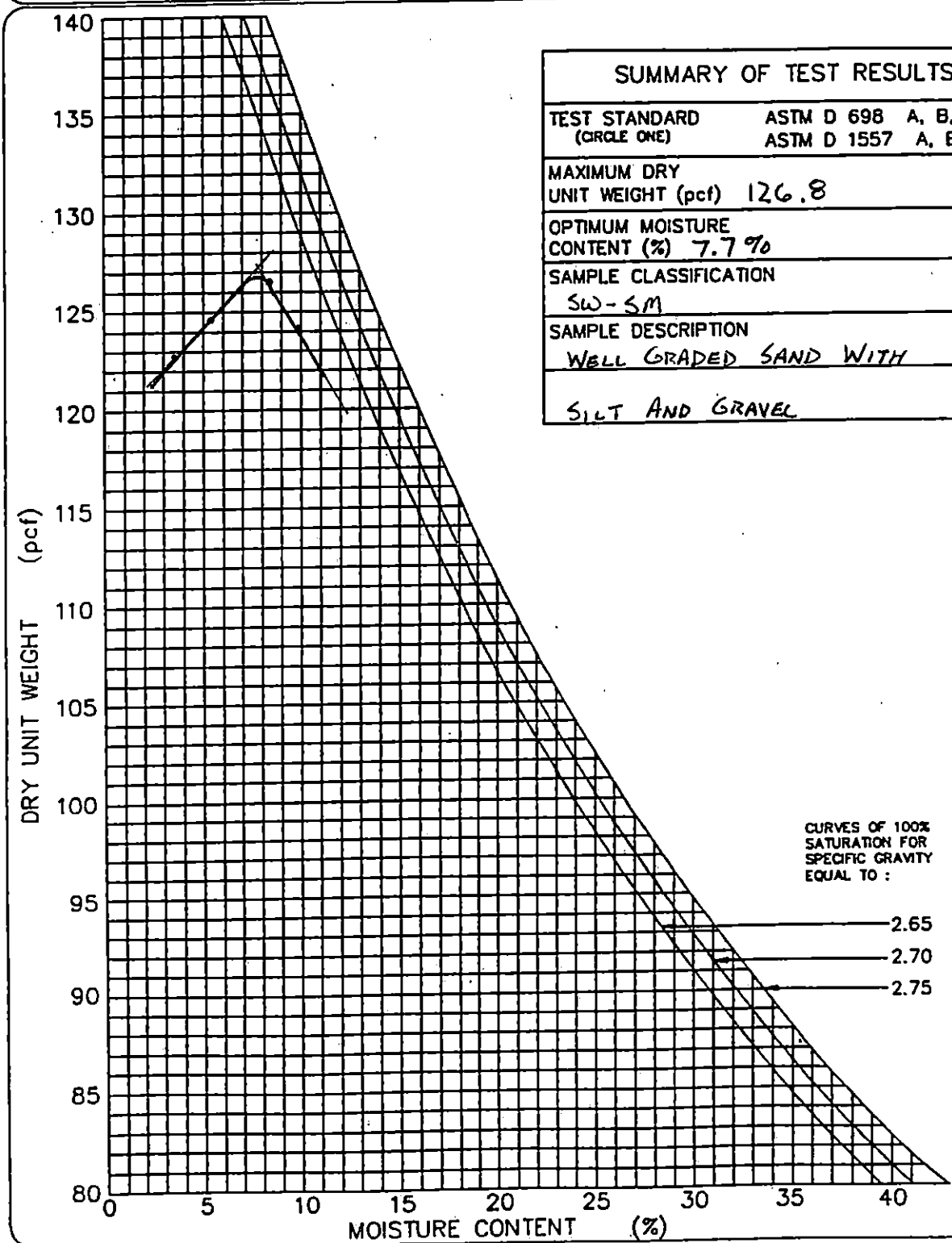
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 09 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-112 QA ID: D/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	126.8
OPTIMUM MOISTURE CONTENT (%)	7.7 %
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: G03700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-113 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1941.6	1756.9
WT. OF TARE	(grams)	17.0	15.9
WT. OF DRY SAMPLE	(grams)	1924.6	1741.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	72.7	3.8	96.2	
3/8"	9.5	122.9	6.4	93.6	
4	4.75	284.5	14.8	85.2	
10	2.0	465.4	24.2	75.8	
20	0.850	717.4	37.3	62.7	
40	0.425	1177.7	61.2	38.8	
60	0.250	1545.4	80.3	19.7	
100	0.150	1680.9	87.3	12.7	
200	0.075	1741.0	90.5	9.5	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

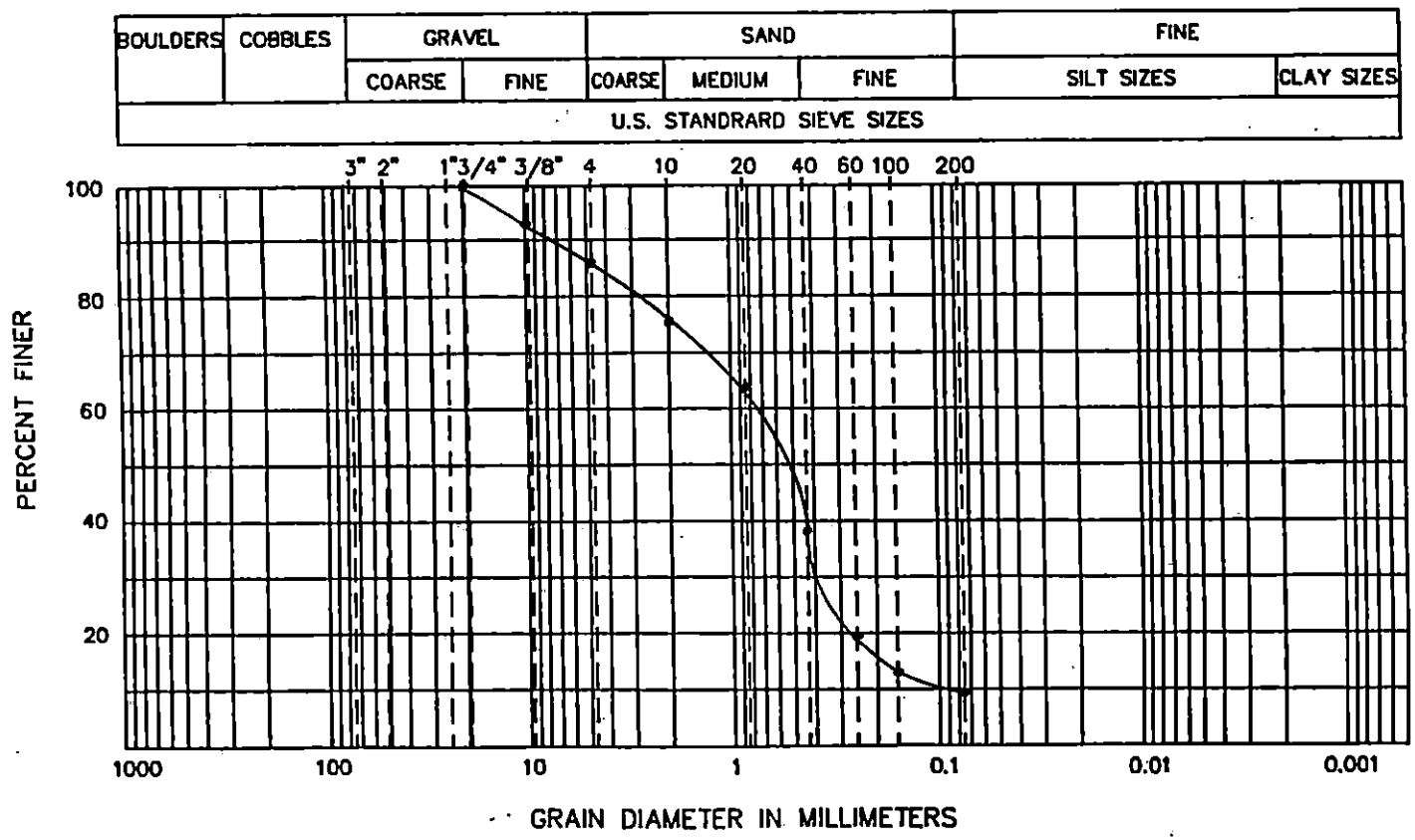
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 21 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-113 — QA ID: DJR



CURVE COEFFICIENTS

(C_u) 8.0

(C_c) 2.5

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.2
3/8-in.	93.6
NO. 4	85.2
NO. 10	75.8
NO. 20	62.7
NO. 40	38.8
NO. 60	19.7
NO. 100	12.7
NO. 200	9.5

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 21 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-113 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10229	10355	10500	10540	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4384	4510	4655	4695	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.1	130.8	135.0	136.2	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.4	123.7	124.1	123.6	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.1	8.2	
G	WT. OF WET SOIL & TARE	(grams)	608.9	640.9	640.5	653.0	
H	WT. OF DRY SOIL & TARE	(grams)	587.1	606.8	589.1	593.1	
I	WT. OF WATER = G - H	(grams)	21.8	34.1	51.4	59.9	
J	WT. DRY SOIL = H - F	(grams)	579.2	598.8	581.0	584.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.8%	5.7%	8.8%	10.2	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

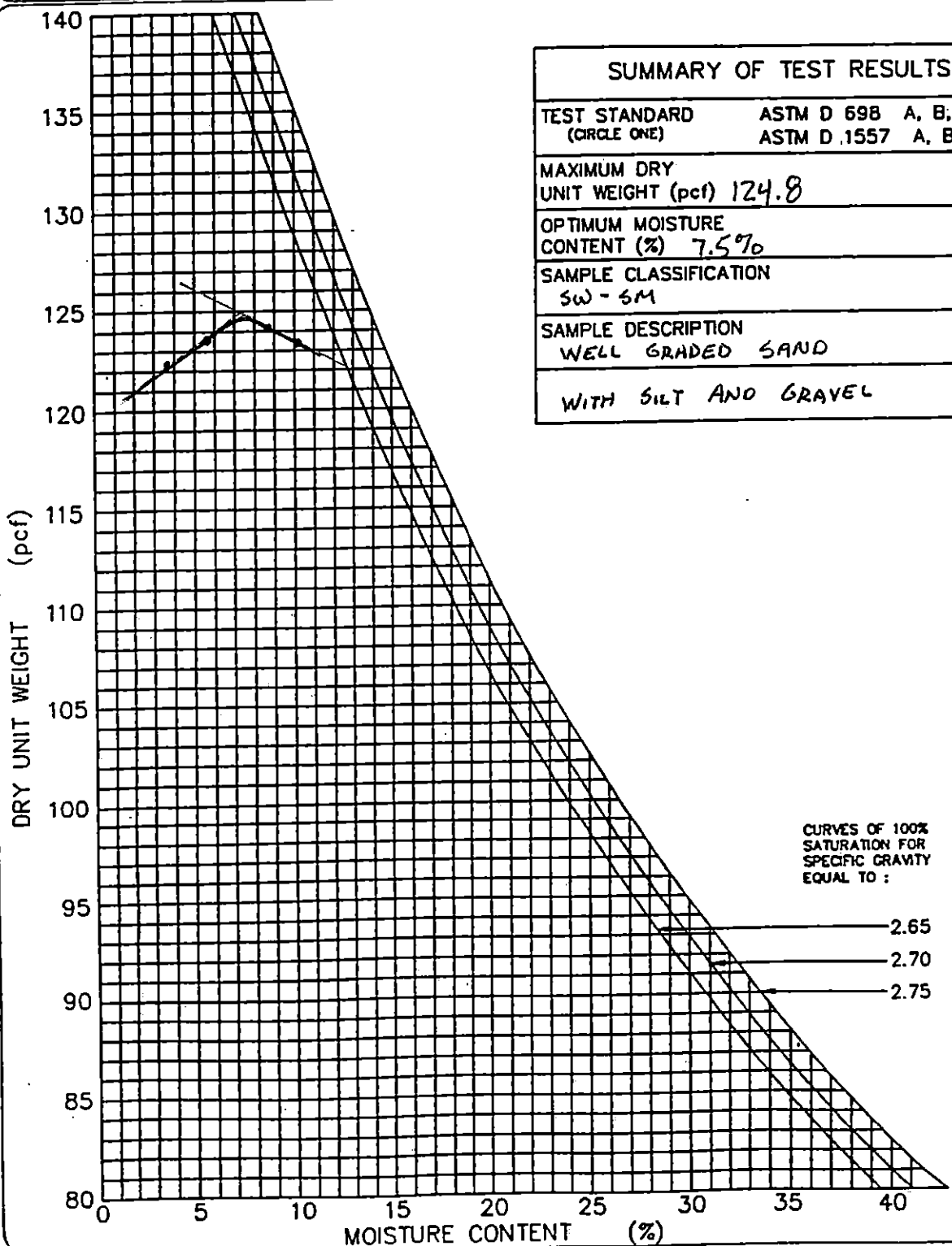
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-113 QA ID: DAR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	124.8
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND
	WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GO3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 09 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-114 QA ID: JAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1654.7	1490.7
WT. OF TARE	(grams)	17.3	17.3
WT. OF DRY SAMPLE	(grams)	1637.4	1473.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	68.8	4.2	95.8	
3/8"	9.5	137.5	8.4	91.6	
4	4.75	275.1	16.8	83.2	
10	2.0	420.8	25.7	74.3	
20	0.850	648.4	39.6	60.4	
40	0.425	1026.6	62.7	37.3	
60	0.250	1282.1	78.3	21.7	
100	0.150	1414.7	86.4	13.6	
200	0,075	1473.7	90.0	10.0	

%FINER = 100 − Σ % RETAINED

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TOWN OF HUNTINGTON

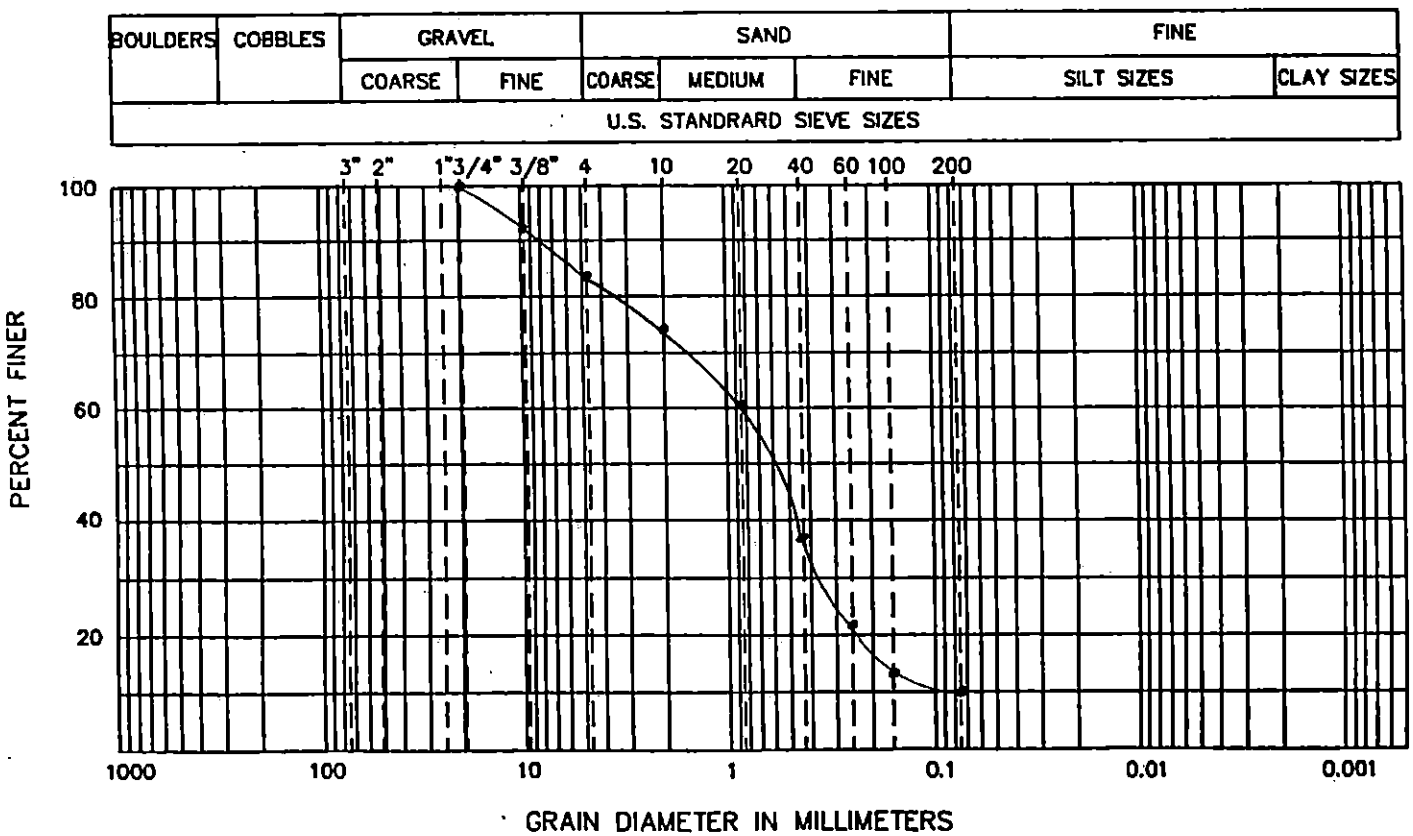
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-114 QA ID: 21R



CURVE COEFFICIENTS

(C_u) 10.6

(C_c) 2.1

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.8
3/8-in.	91.6
NO. 4	83.2
NO. 10	74.3
NO. 20	60.4
NO. 40	37.3
NO. 60	21.7
NO. 100	13.6
NO. 200	10.0

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-114 QA ID: JR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10293	10448	10576	10586	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4448	4603	4731	4741	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.0	133.5	137.2	137.5	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.8	125.8	126.6	125.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	7.9	8.1	8.0	
G	WT. OF WET SOIL & TARE	(grams)	595.4	614.9	593.8	570.9	
H	WT. OF DRY SOIL & TARE	(grams)	571.7	580.0	548.4	521.6	
I	WT. OF WATER = G - H	(grams)	23.7	34.9	45.4	49.3	
J	WT. DRY SOIL = H - F	(grams)	563.7	572.1	540.3	513.6	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.2%	6.1%	8.4%	9.6%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

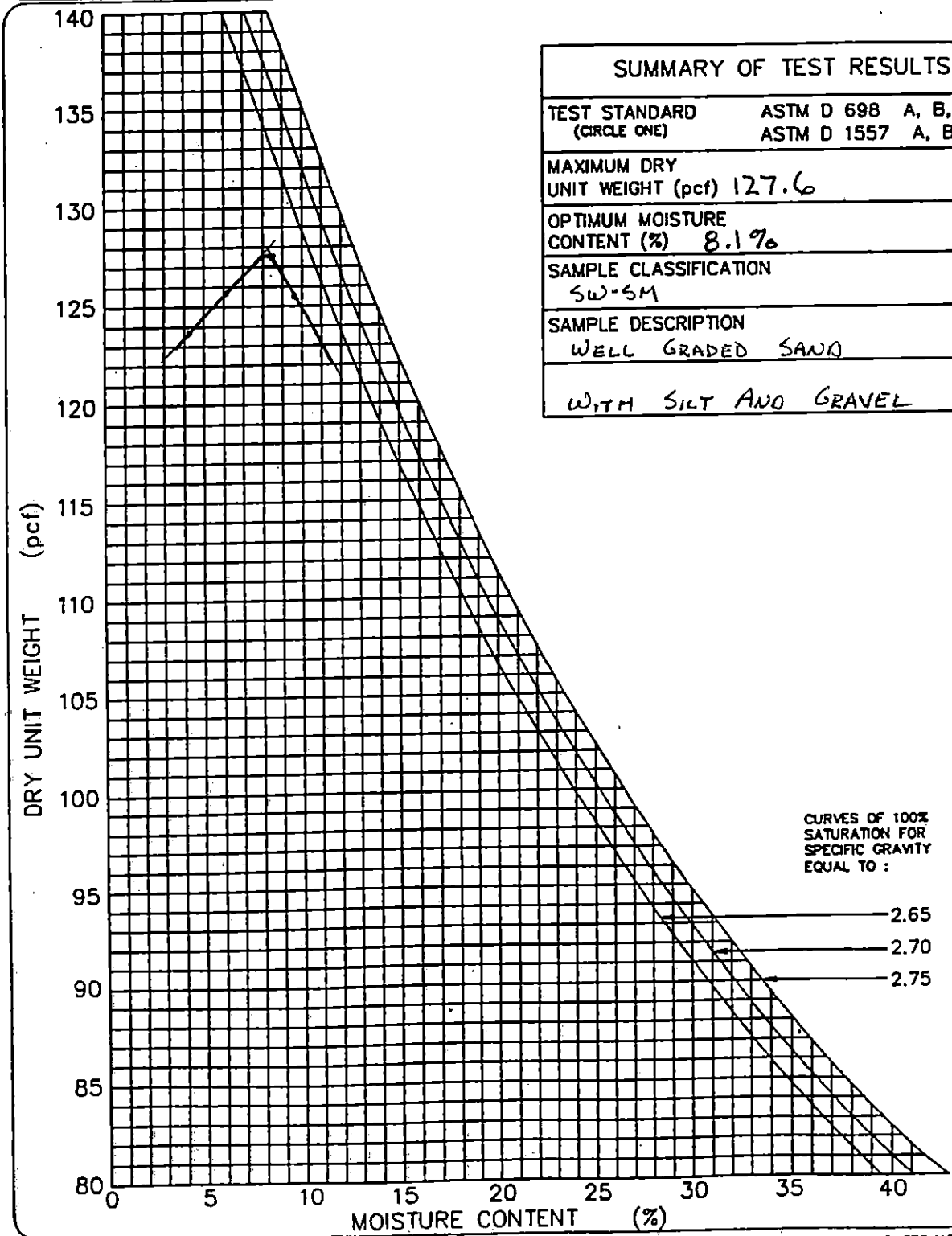
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 09 month 95 year

SOURCE: B. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-114 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	127.6
OPTIMUM MOISTURE CONTENT (%)	8.1%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-115 QA ID: 2/8

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1651.4	1423.3
WT. OF TARE	(grams)	17.3	19.2
WT. OF DRY SAMPLE	(grams)	1634.1	1404.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	29.4	1.8	98.2	
3/8"	9.5	93.1	5.7	94.3	
4	4.75	268.0	16.4	83.6	
10	2.0	475.5	29.1	70.9	
20	0.850	602.9	36.9	63.1	
40	0.425	985.3	60.3	39.7	
60	0.250	1237.0	75.7	24.3	
100	0.150	1361.2	83.3	16.7	
200	0.075	1403.7	85.9	14.1	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

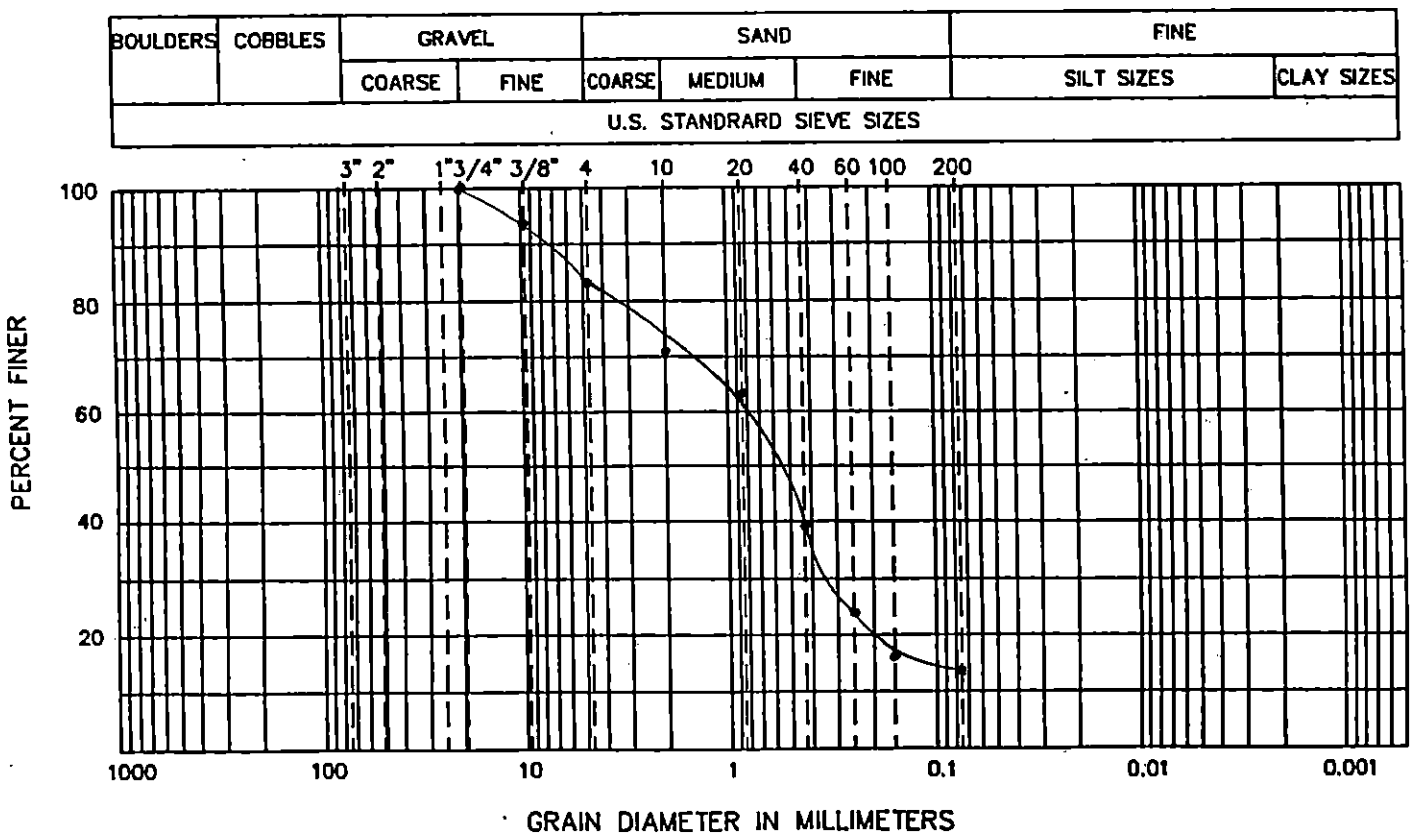
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 25 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-115 — QA ID: 24R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	98.2
3/8-in.	94.3
NO. 4	83.6
NO. 10	70.9
NO. 20	63.1
NO. 40	39.7
NO. 60	24.3
NO. 100	16.7
NO. 200	14.1

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 25 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: 5115 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10311	10483	10590	10514	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4466	4638	4745	4669	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.5	134.5	137.6	135.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.6	127.5	127.1	123.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.2	8.0	7.9	8.1	
G	WT. OF WET SOIL & TARE	(grams)	541.9	526.3	601.0	581.1	
H	WT. OF DRY SOIL & TARE	(grams)	521.9	499.3	555.5	532.3	
I	WT. OF WATER = G - H	(grams)	20.0	27.0	45.5	48.8	
J	WT. DRY SOIL = H - F	(grams)	513.7	491.3	547.6	524.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.9%	5.5%	8.3%	9.3%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

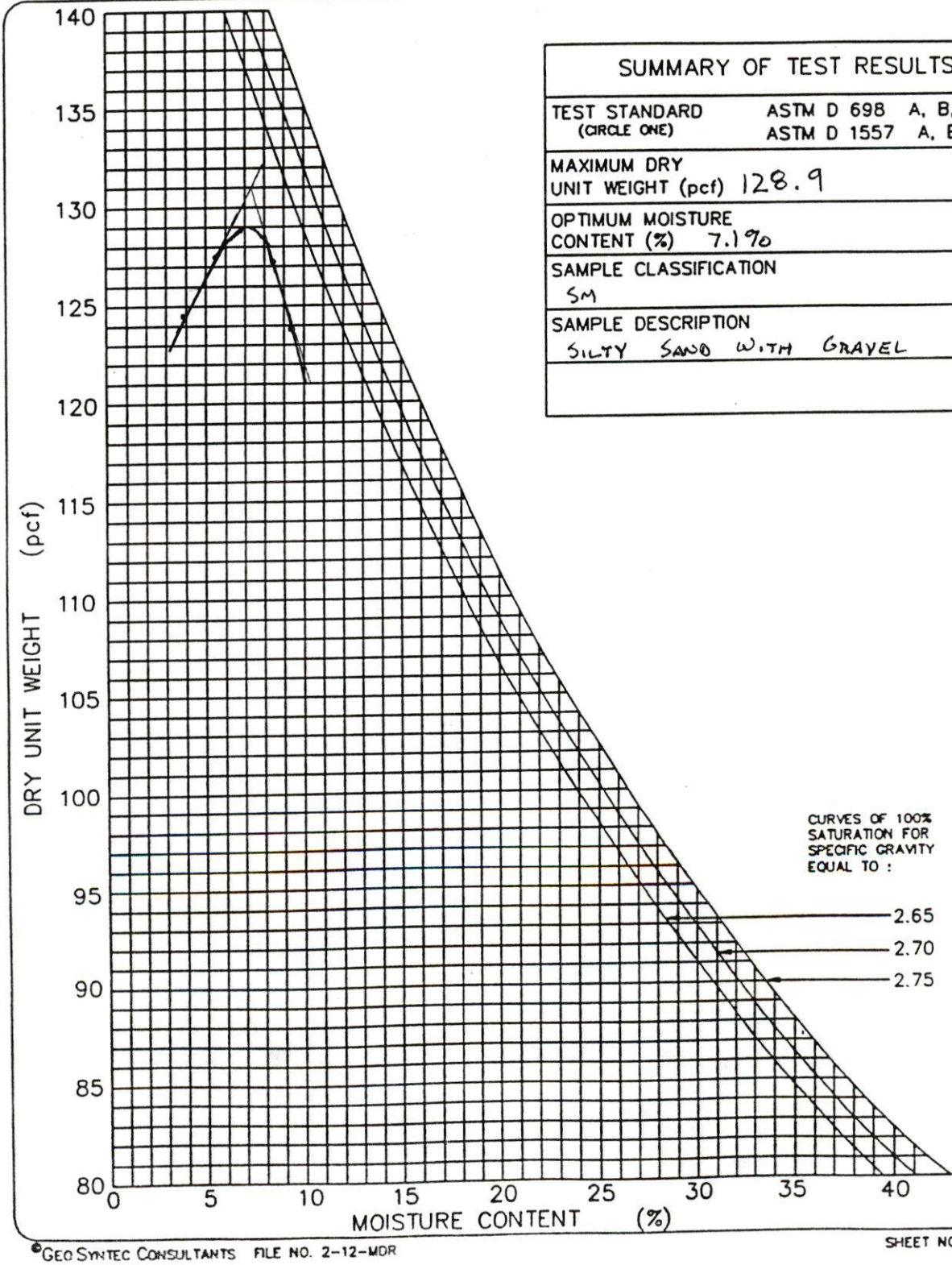
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-115 QA ID: 2/R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.9
OPTIMUM MOISTURE CONTENT (%)	7.1%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 09 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-116 QA ID: 2/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1747.5	1569.4
WT. OF TARE	(grams)	15.9	15.9
WT. OF DRY SAMPLE	(grams)	1731.6	1553.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	79.7	4.6	95.4	
3/8"	9.5	111.7	6.8	93.2	
4	4.75	273.6	15.8	84.2	
10	2.0	522.9	30.2	69.8	
20	0.850	739.4	42.7	57.3	
40	0.425	1054.5	60.9	39.1	
60	0.250	1381.8	79.8	20.2	
100	0.150	1485.7	85.8	14.2	
200	0.075	1553.2	89.7	10.3	

%FINER = 100 − Σ % RETAINED

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TOWN OF HUNTINGTON

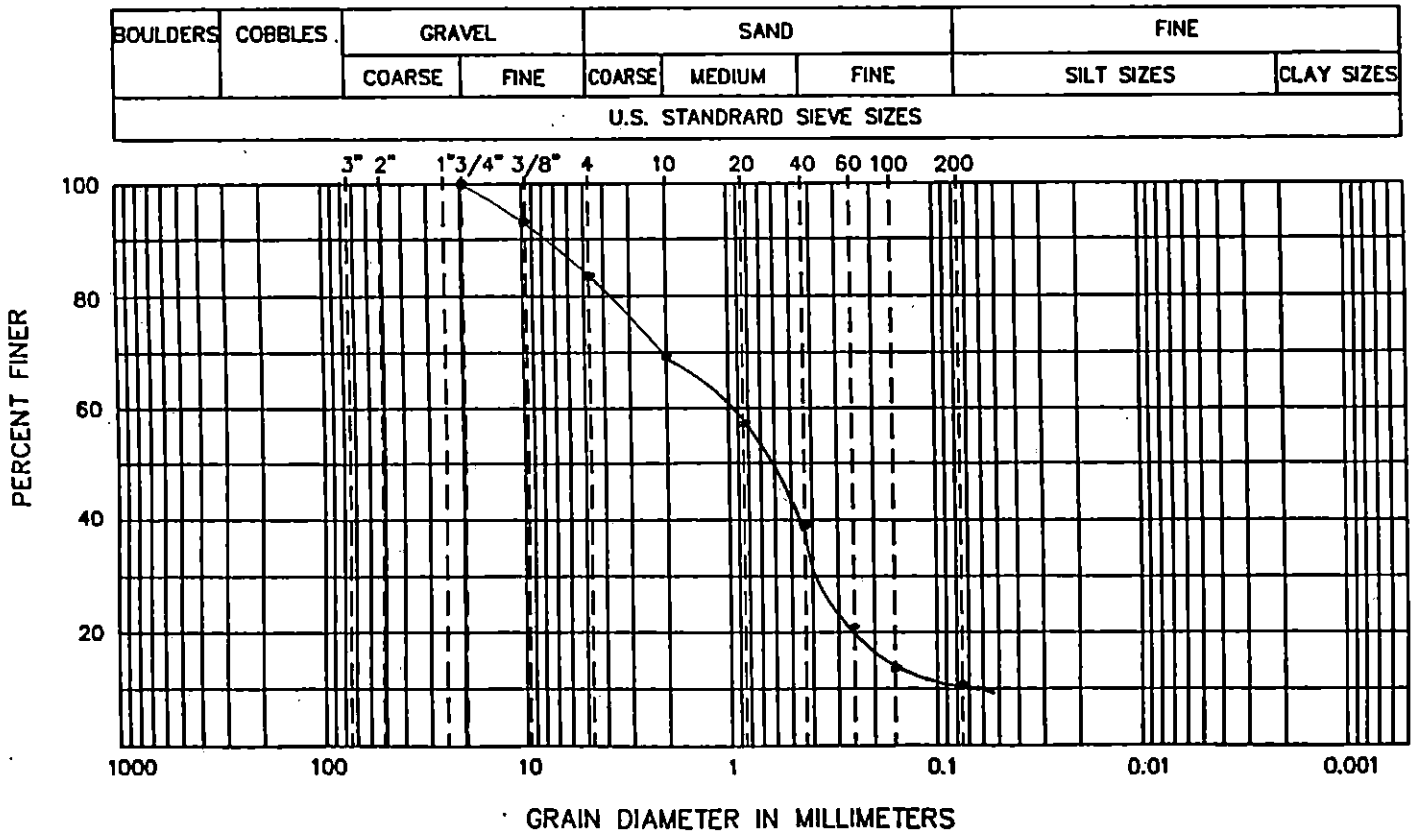
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 26 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-116 — QA ID: 2/7



CURVE COEFFICIENTS

(C_u) 13.6

(C_c) 2.3

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.4
3/8-in.	93.2
NO. 4	84.2
NO. 10	69.8
NO. 20	57.3
NO. 40	39.1
NO. 60	20.2
NO. 100	14.2
NO. 200	10.3

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-116 QA ID: 2/12

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10204	10400	10442	10445	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4359	4555	4597	4600	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	126.4	132.1	133.3	132.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	121.0	124.3	123.5	121.4	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.7	8.1	8.0	8.1	
G	WT. OF WET SOIL & TARE	(grams)	609.9	592.4	589.4	565.2	
H	WT. OF DRY SOIL & TARE	(grams)	584.0	557.8	546.8	518.7	
I	WT. OF WATER = G - H	(grams)	25.9	34.6	42.6	46.5	
J	WT. DRY SOIL = H - F	(grams)	576.3	549.7	538.8	510.6	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.5%	6.3%	7.9%	9.1%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

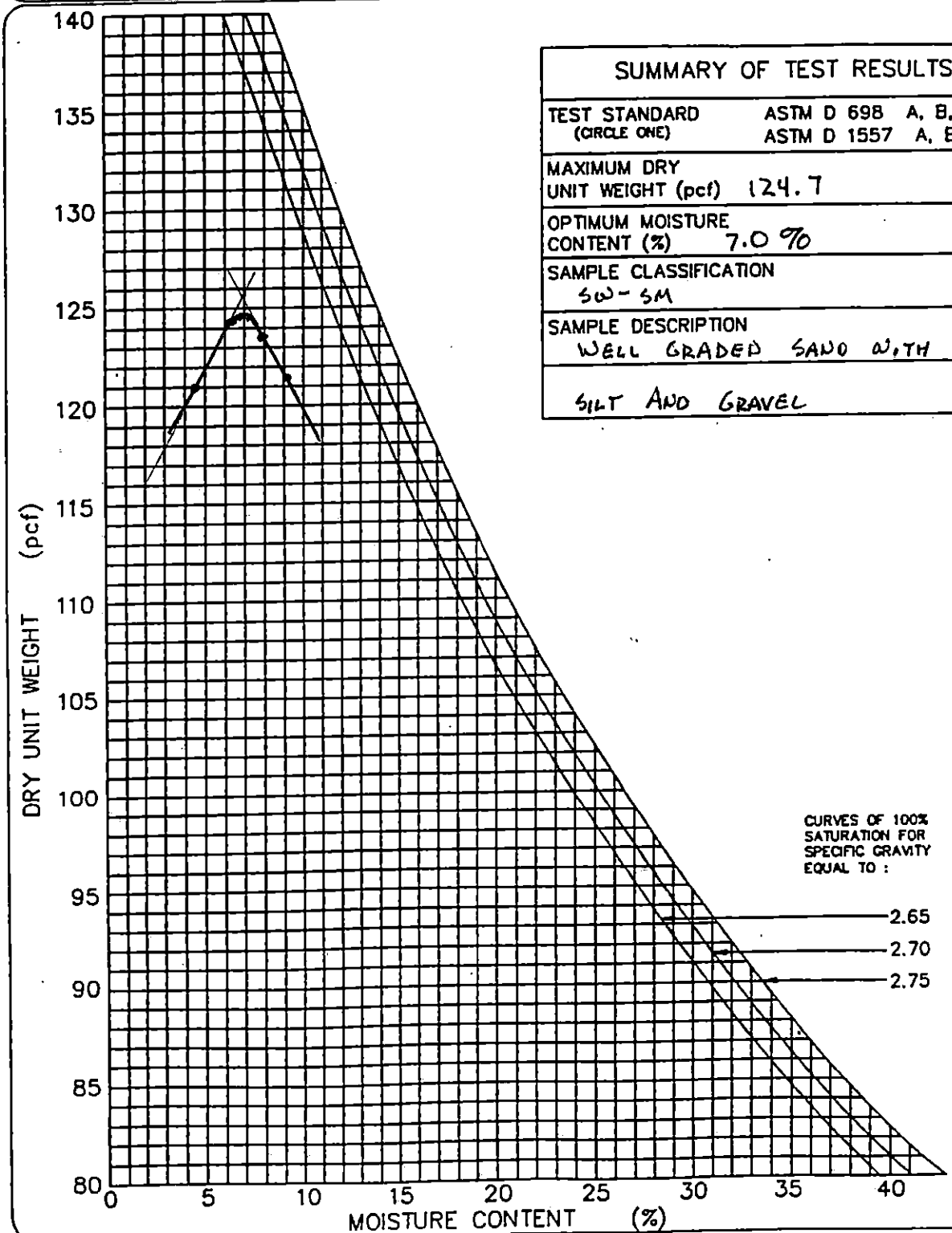
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT. SAMPLE NO.: S-116 QA ID: D/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	124.7
OPTIMUM MOISTURE CONTENT (%)	7.0 %
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 09 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-117 QA ID: 21R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1853.9	1619.6
WT. OF TARE	(grams)	17.8	17.8
WT. OF DRY SAMPLE	(grams)	1836.1	1601.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	60.6	3.3	96.7	
3/8"	9.5	152.3	8.3	91.7	
4	4.75	297.4	16.2	83.8	
10	2.0	554.5	30.2	69.8	
20	0.850	776.7	42.3	57.7	
40	0.425	1200.8	65.4	34.6	
60	0.250	1467.0	79.9	20.1	
100	0.150	1535.0	83.6	16.4	
200	0.075	1601.1	87.2	12.8	

% FINER = 100 − Σ % RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

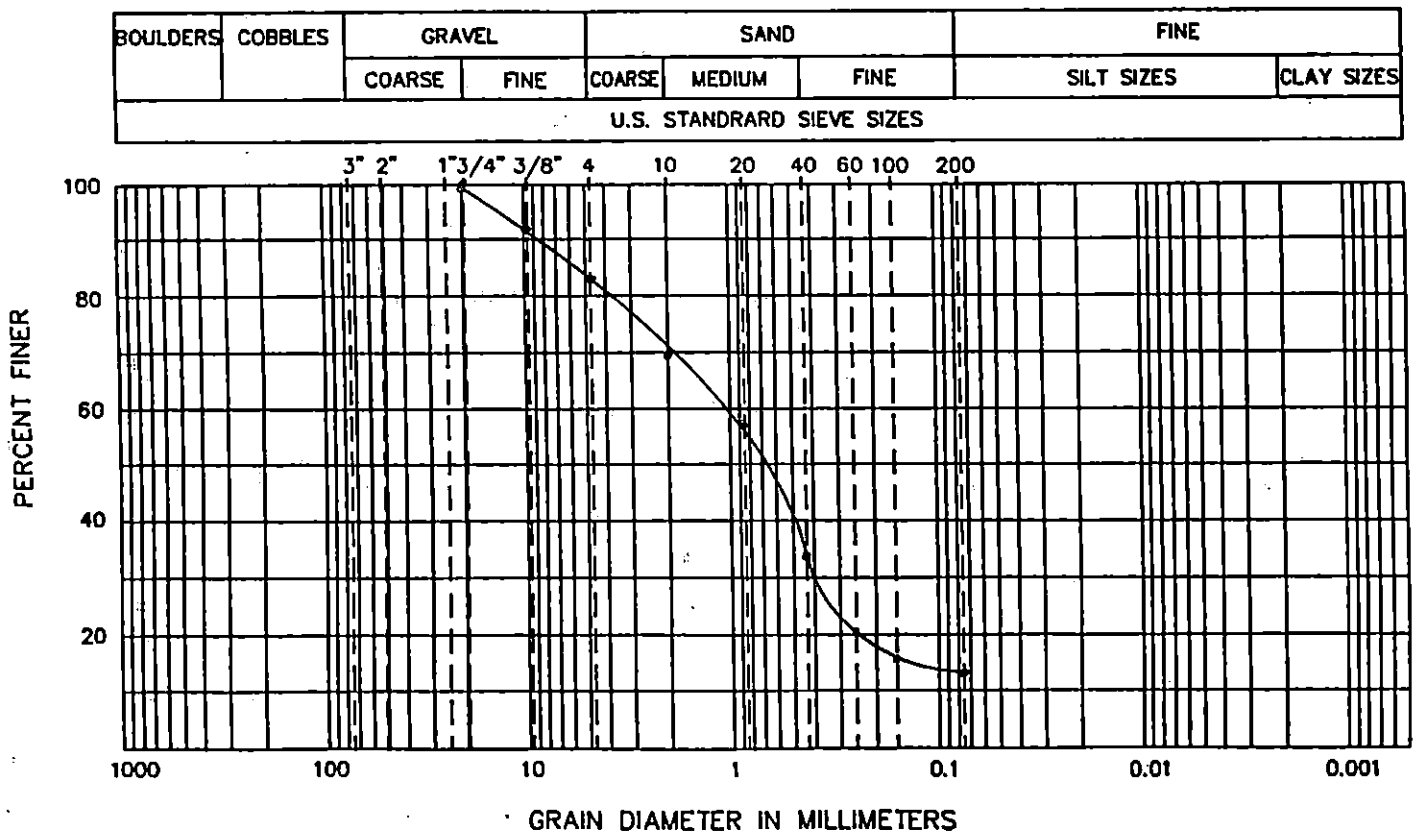
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-117 QA ID: PAT



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.7
3/8-in.	91.7
NO. 4	83.8
NO. 10	69.8
NO. 20	57.7
NO. 40	34.6
NO. 60	20.1
NO. 100	16.4
NO. 200	12.8

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 27 day 09 month 91 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

SAMPLE NO.: S-117 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10269	10445	10545	10528	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4424	4600	4700	4683	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.3	133.4	136.3	135.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.2	125.6	125.3	123.2	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	7.9	8.3	8.1	
G	WT. OF WET SOIL & TARE	(grams)	562.3	591.7	560.2	603.3	
H	WT. OF DRY SOIL & TARE	(grams)	540.5	557.6	515.6	548.2	
I	WT. OF WATER = G - H	(grams)	21.8	34.1	44.6	55.1	
J	WT. DRY SOIL = H - F	(grams)	532.6	549.7	507.3	540.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.1%	6.2%	8.8%	10.2%	

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

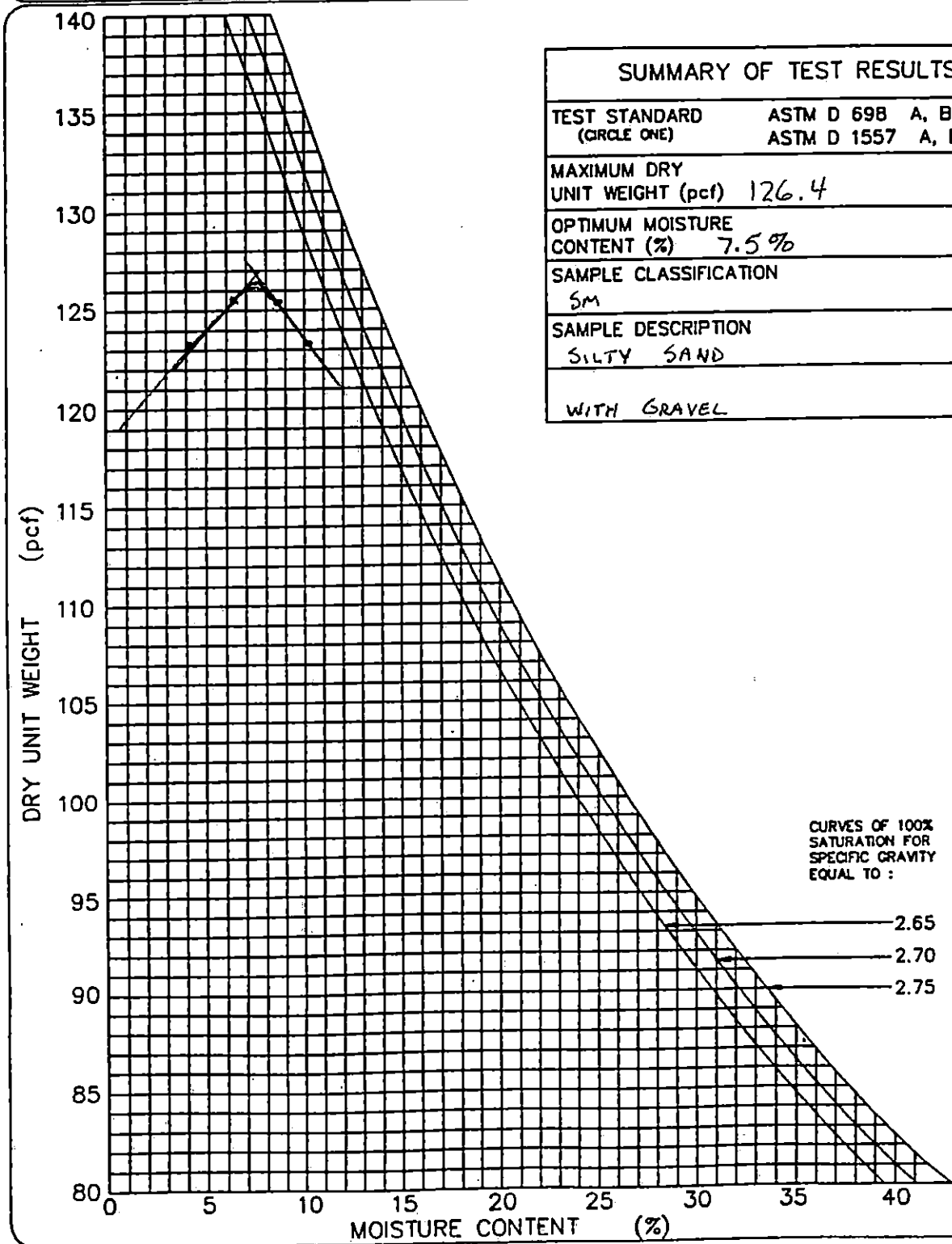
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-117 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	126.4
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND
	WITH GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: G03700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-118 QA ID: 218

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1652.6	1491.5
WT. OF TARE	(grams)	17.8	17.8
WT. OF DRY SAMPLE	(grams)	1634.8	1473.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	31.1	1.9	98.1	
3/8"	9.5	114.4	7.0	93.0	
4	4.75	282.8	17.3	82.7	
10	2.0	500.2	30.6	69.4	
20	0.850	722.6	44.2	55.8	
40	0.425	1059.4	64.8	35.2	
60	0.250	1329.1	81.3	18.7	
100	0.150	1428.8	87.4	12.6	
200	0.075	1473.0	90.1	9.9	

%FINER = 100 − Σ % RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

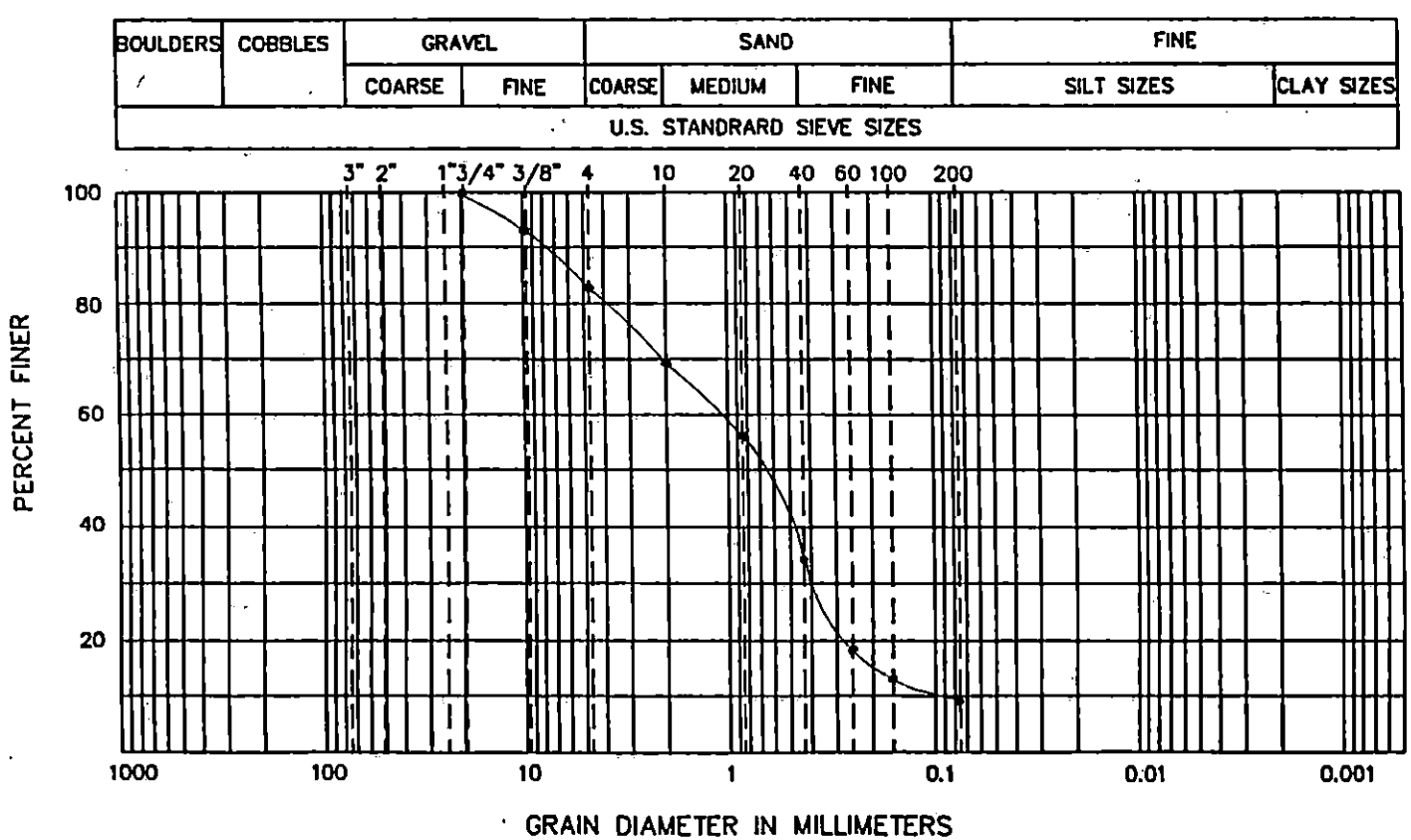
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-118 QA ID: PAR



CURVE COEFFICIENTS

(C_u) 12.2

(C_c) 1.6

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	98.1
3/8-in.	93.0
NO. 4	82.7
NO. 10	69.4
NO. 20	55.8
NO. 40	36.2
NO. 60	18.7
NO. 100	12.6
NO. 200	9.9

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 28 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-118 — QA ID: 3/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10255	10390	10473	10469	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4410	4545	4628	4624	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.9	131.8	134.2	134.1	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.7	124.1	124.1	122.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.1	8.0	
G	WT. OF WET SOIL & TARE	(grams)	626.7	604.0	571.9	566.0	
H	WT. OF DRY SOIL & TARE	(grams)	601.8	569.2	529.7	517.6	
I	WT. OF WATER = G - H	(grams)	24.9	34.8	42.2	48.4	
J	WT. DRY SOIL = H - F	(grams)	593.6	561.2	521.6	509.6	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.2%	6.2%	8.1%	9.5%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

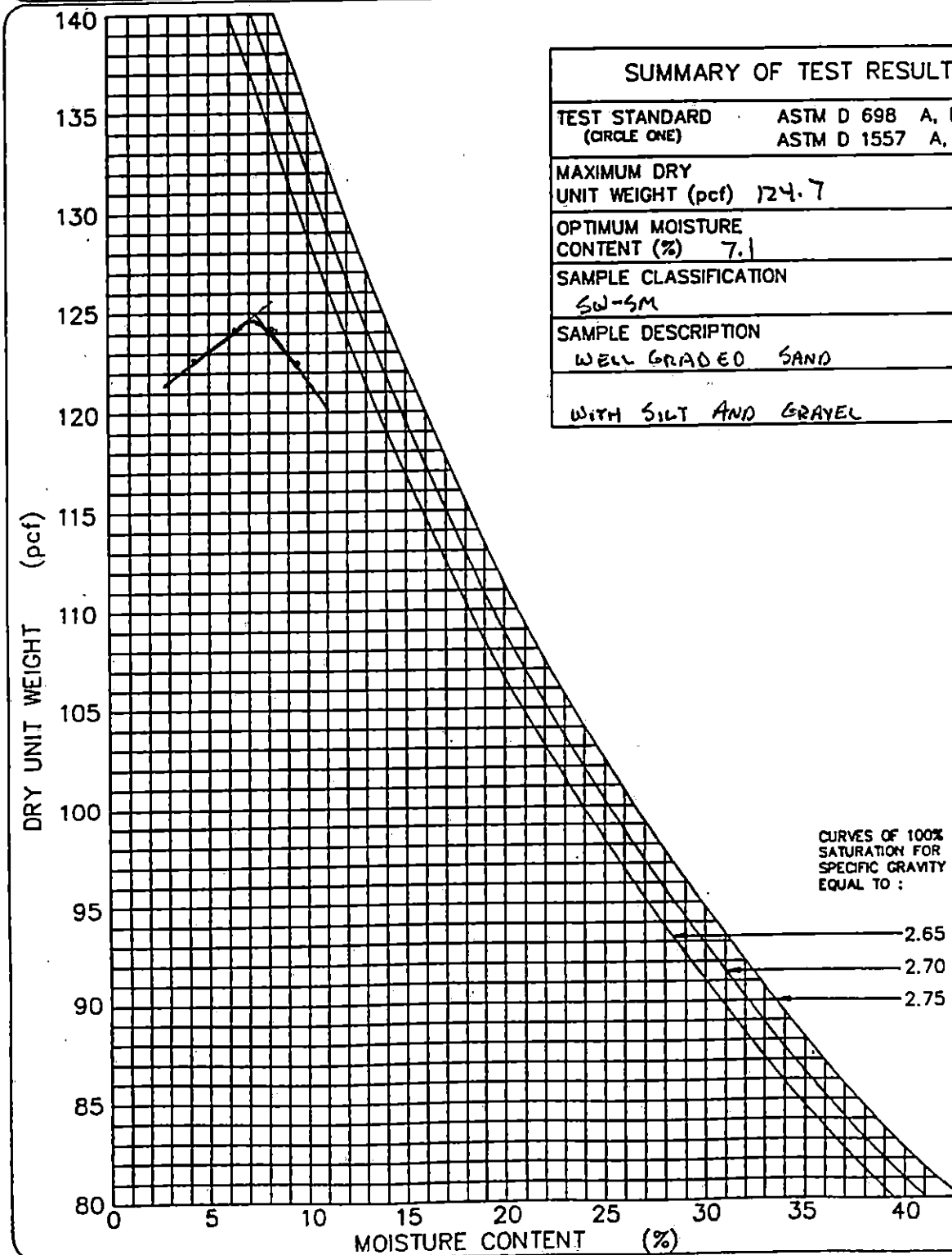
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-118 QA ID: JJR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	124.7
OPTIMUM MOISTURE CONTENT (%)	7.1
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-111 QA ID: 2 1R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1890.7	1714.6
WT. OF TARE	(grams)	17.2	15.9
WT. OF DRY SAMPLE	(grams)	1873.5	1698.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	88.2	4.7	95.3	
3/8"	9.5	141.7	7.6	92.4	
4	4.75	329.2	17.6	82.4	
10	2.0	511.6	27.3	72.7	
20	0.850	754.7	40.3	59.7	
40	0.425	1178.3	62.9	37.1	
60	0.250	1504.2	80.3	19.7	
100	0.150	1629.2	87.0	13.0	
200	0.075	1697.8	90.6	9.4	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

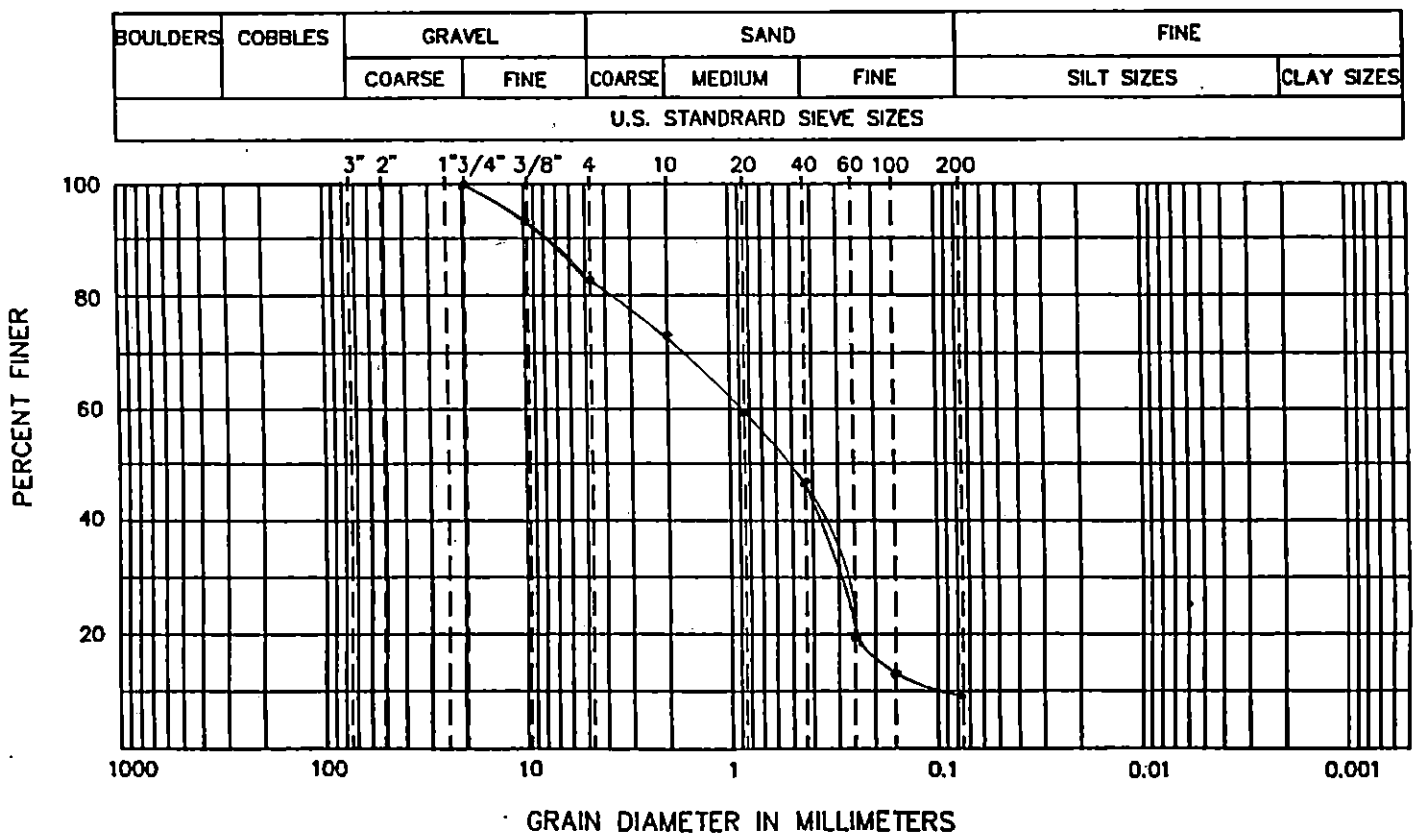
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 09 month 95 year

SOURCE: B. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-111 QA ID: DJR



CURVE COEFFICIENTS

(C_u) 8.9

(C_c) 1.0

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.3
3/8-in.	92.4
NO. 4	82.4
NO. 10	72.7
NO. 20	59.7
NO. 40	37.1
NO. 60	19.7
NO. 100	13.0
NO. 200	9.4

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 19 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-111 — QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10224	10415	10460	10390	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4379	4570	4615	4545	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.0	132.5	133.8	131.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	121.3	124.4	124.3	120.7	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	541.2	568.9	605.1	572.1	
H	WT. OF DRY SOIL & TARE	(grams)	517.3	534.9	562.7	524.6	
I	WT. OF WATER = G - H	(grams)	23.9	34.0	42.4	47.5	
J	WT. DRY SOIL = H - F	(grams)	509.3	526.9	554.6	516.3	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.7%	6.5%	7.6%	9.2%	

GeoSyntec Consultants

TOWN OF HUNTINGTON

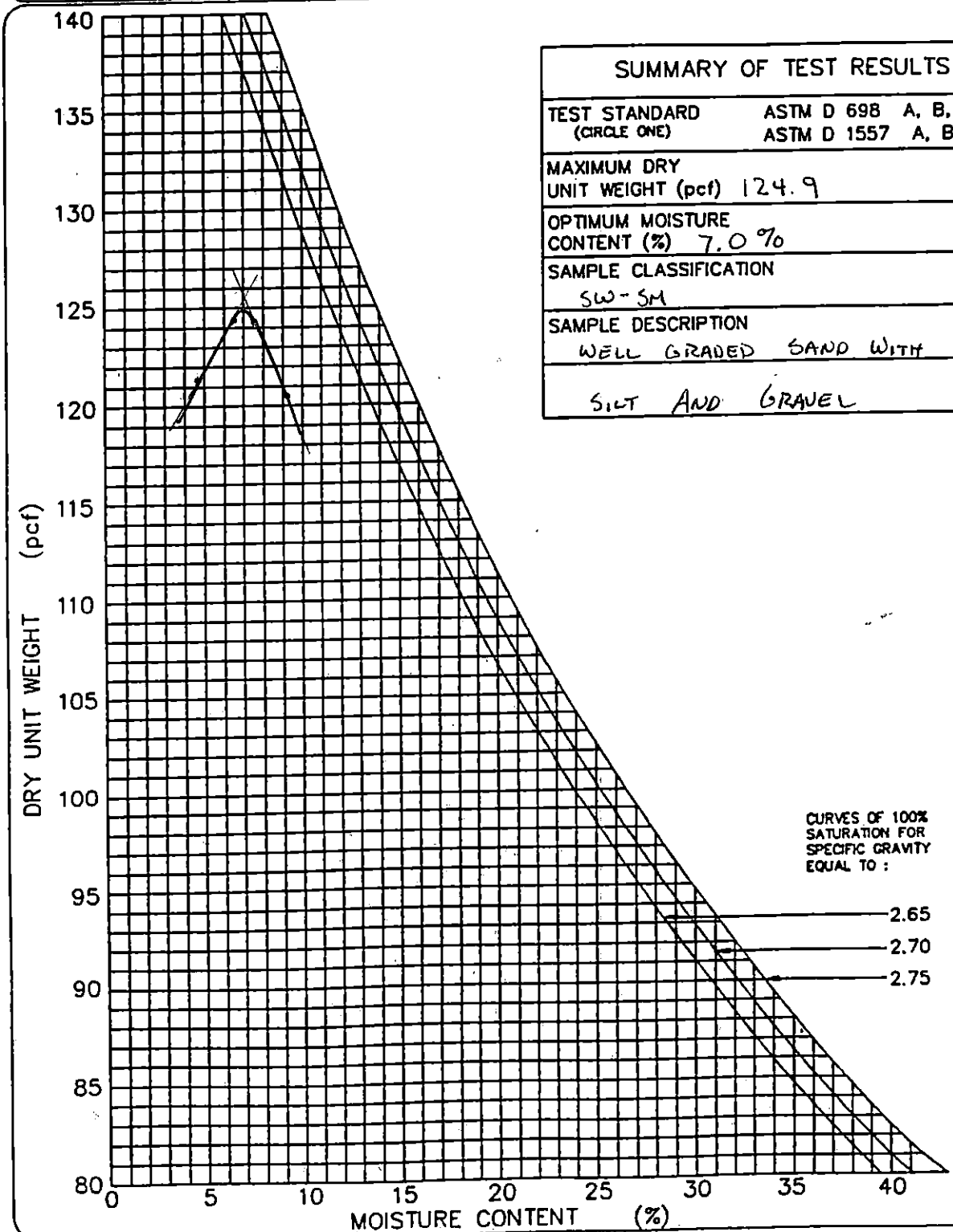
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-111 QA ID: DAR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	124.9
OPTIMUM MOISTURE CONTENT (%)	7.0 %
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 09 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-112 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1852.6	1675.6
WT. OF TARE	(grams)	17.1	15.8
WT. OF DRY SAMPLE	(grams)	1835.5	1659.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	88.4	4.8	95.2	
3/8"	9.5	151.3	8.2	91.8	
4	4.75	326.6	17.8	82.2	
10	2.0	507.3	27.6	72.4	
20	0.850	741.9	40.4	59.6	
40	0.425	1160.2	63.2	36.8	
60	0.250	1490.3	81.2	18.8	
100	0.150	1610.1	87.7	12.3	
200	0.075	1658.9	90.4	9.6	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

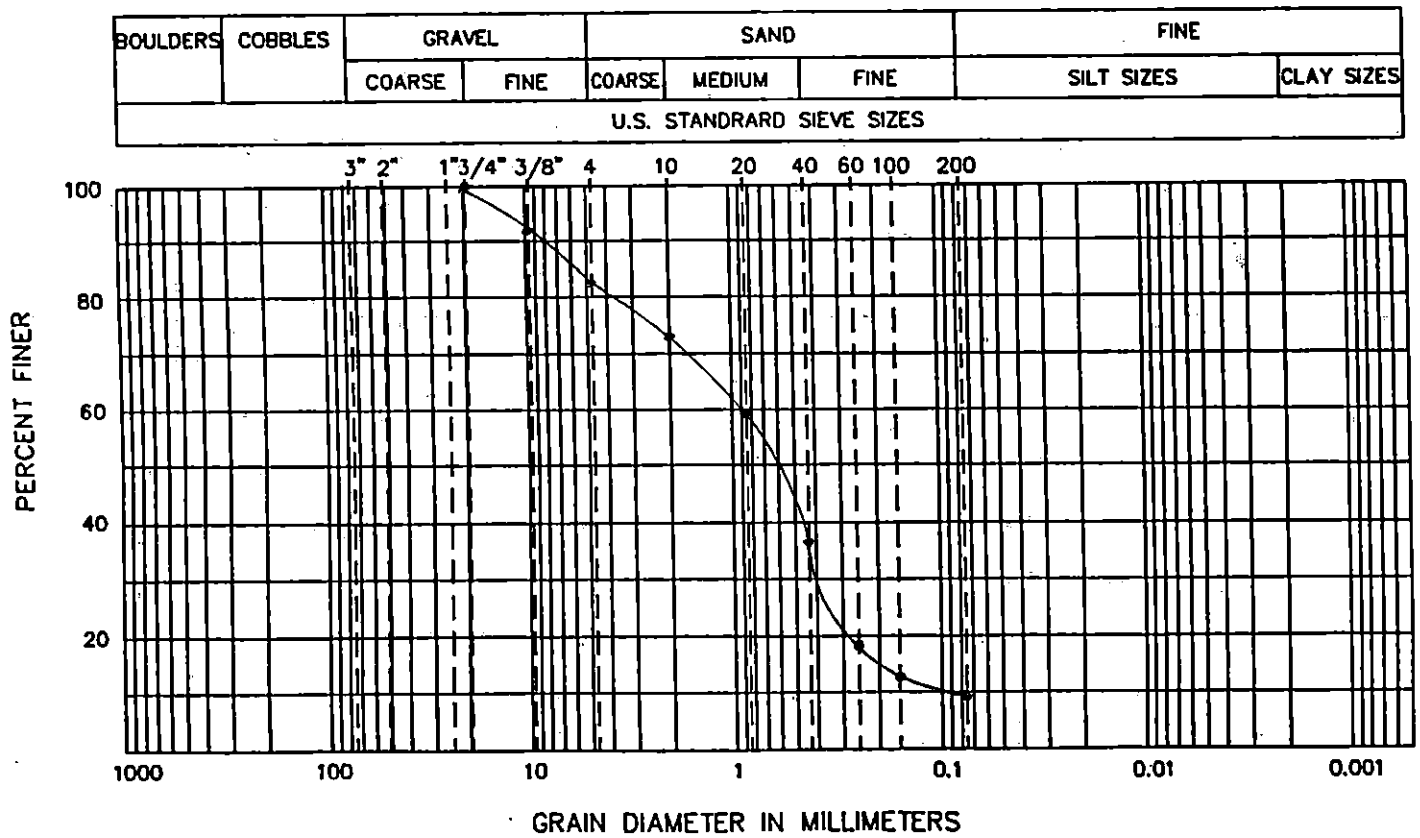
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 20 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-112 — QA ID: DJR



CURVE COEFFICIENTS

(C_u) 9.8

(C_c) 2.0

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.2
3/8-in.	91.8
NO. 4	82.2
NO. 10	72.4
NO. 20	59.6
NO. 40	36.8
NO. 60	18.8
NO. 100	12.3
NO. 200	9.6

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 20 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-112 — QA ID: 218

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10229	10374	10575	10550	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4384	4529	4730	4705	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.1	131.3	137.2	136.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.8	124.7	126.6	124.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.1	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	622.2	602.7	624.3	631.3	
H	WT. OF DRY SOIL & TARE	(grams)	601.6	572.9	576.3	575.2	
I	WT. OF WATER = G - H	(grams)	20.6	29.8	48.0	56.1	
J	WT. DRY SOIL = H - F	(grams)	593.7	564.8	568.3	566.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.5%	5.3%	8.4%	9.9%	

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TOWN OF HUNTINGTON

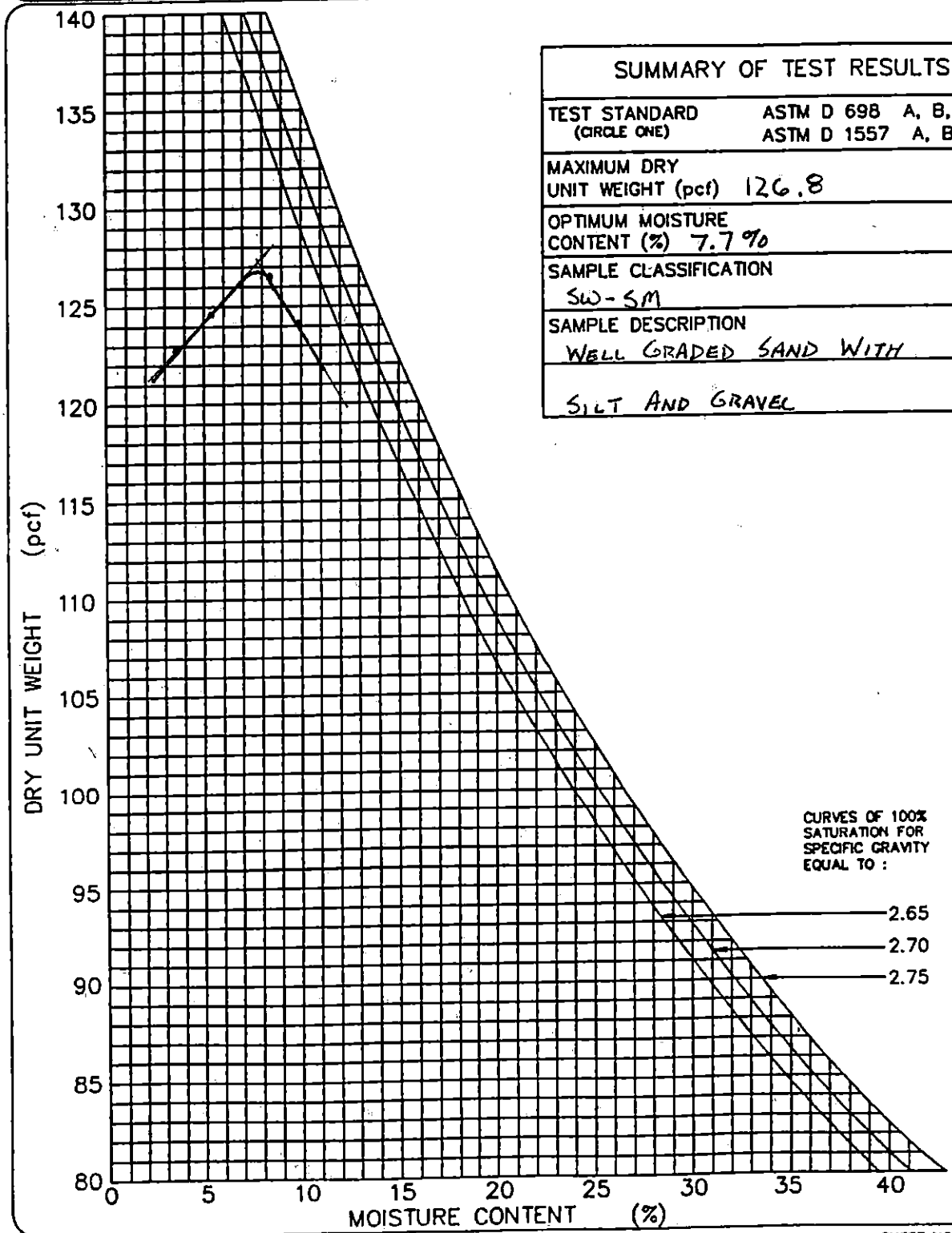
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 09 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-112 QA ID: 7/8



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	126.8
OPTIMUM MOISTURE CONTENT (%)	7.7%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-113 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1941.6	1756.9
WT. OF TARE	(grams)	17.0	15.9
WT. OF DRY SAMPLE	(grams)	1924.6	1741.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	72.7	3.8	96.2	
3/8"	9.5	122.9	6.4	93.6	
4	4.75	284.5	14.8	85.2	
10	2.0	465.4	24.2	75.8	
20	0.850	717.4	37.3	62.7	
40	0.425	1177.7	61.2	38.8	
60	0.250	1545.4	80.3	19.7	
100	0.150	1680.9	87.3	12.7	
200	0.075	1741.0	90.5	9.5	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

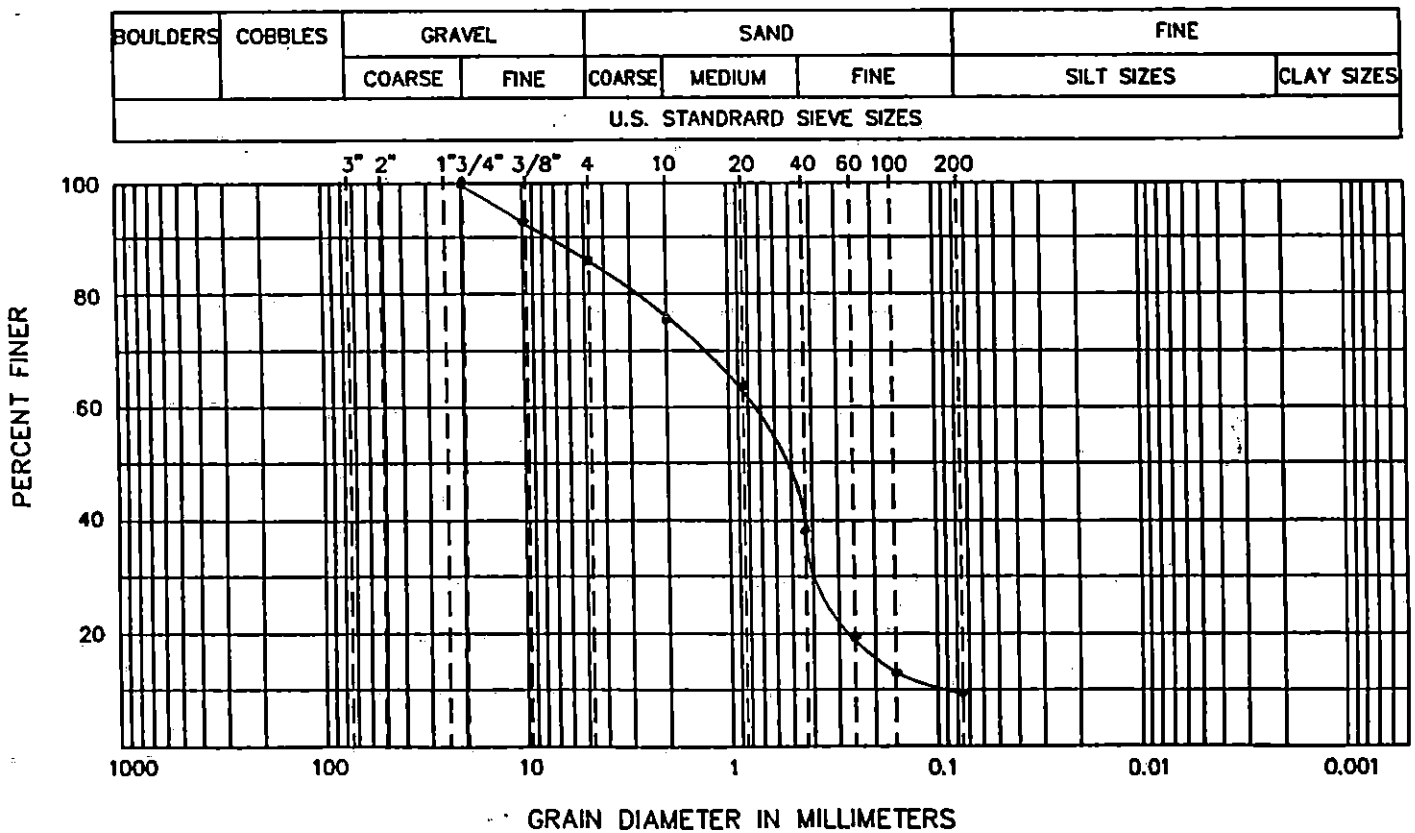
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 21 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-113 — QA ID: DJR



CURVE COEFFICIENTS

(C_u) 8.0

(C_c) 2.5

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.2
3/8-in.	93.6
NO. 4	85.2
NO. 10	75.8
NO. 20	62.7
NO. 40	38.8
NO. 60	19.7
NO. 100	12.7
NO. 200	9.5

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 21 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-113 — QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10229	10355	10500	10540	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4384	4510	4655	4695	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.1	130.8	135.0	136.2	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.4	123.7	124.1	123.6	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.1	8.2	
G	WT. OF WET SOIL & TARE	(grams)	608.9	640.9	640.5	653.0	
H	WT. OF DRY SOIL & TARE	(grams)	587.1	606.8	589.1	593.1	
I	WT. OF WATER = G - H	(grams)	21.8	34.1	51.4	59.9	
J	WT. DRY SOIL = H - F	(grams)	579.2	598.8	581.0	584.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.8%	5.7%	8.8%	10.2	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

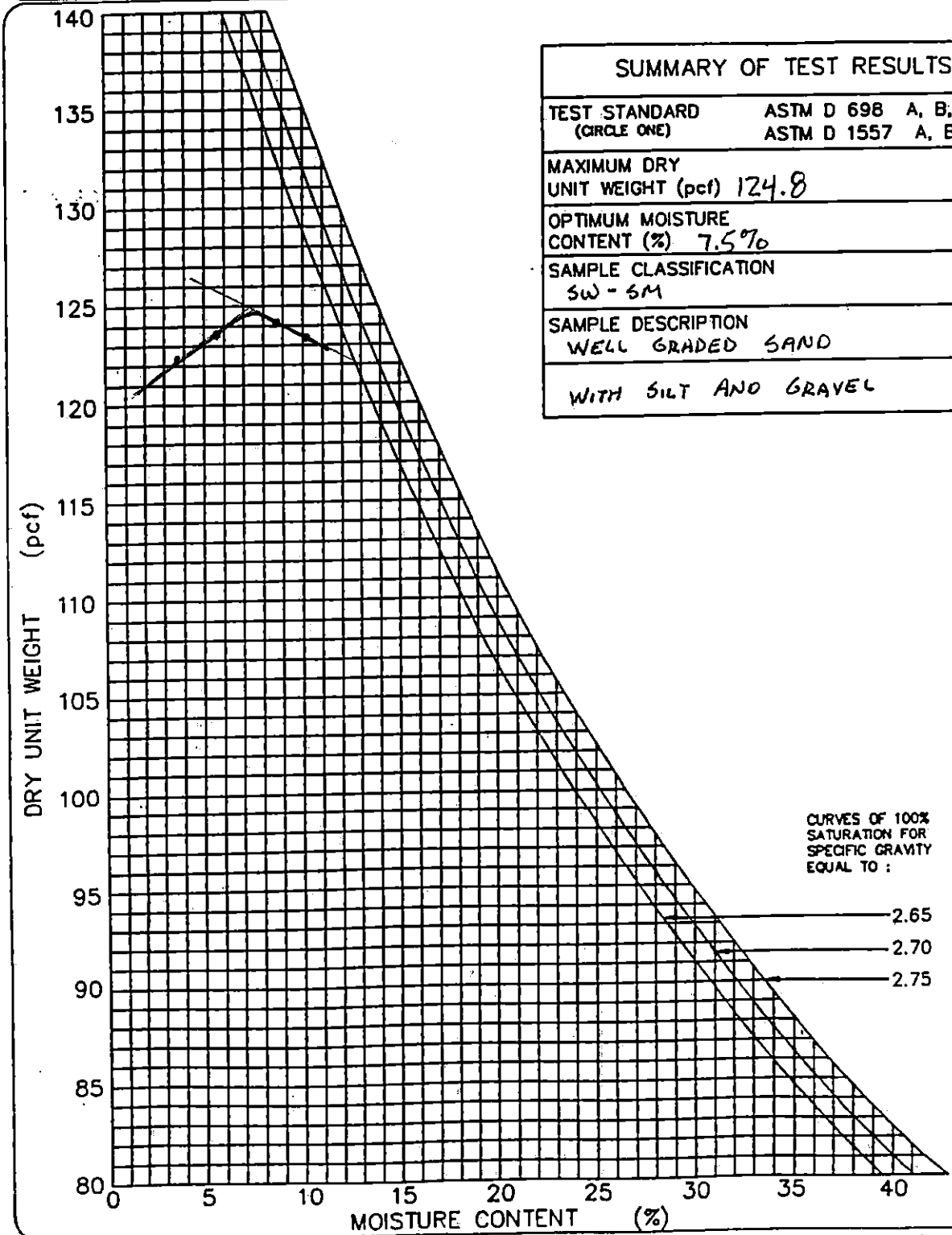
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-113 QA ID: DAR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	124.8
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND
	WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-114 QA ID: 21R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1654.7	1490.7
WT. OF TARE	(grams)	17.3	17.3
WT. OF DRY SAMPLE	(grams)	1637.4	1473.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	68.8	4.2	95.8	
3/8"	9.5	137.5	8.4	91.6	
4	4.75	275.1	16.8	83.2	
10	2.0	420.8	25.7	74.3	
20	0.850	648.4	39.6	60.4	
40	0.425	1026.6	62.7	37.3	
60	0.250	1282.1	78.3	21.7	
100	0.150	1414.7	86.4	13.6	
200	0.075	1473.7	90.0	10.0	

%FINER = 100 − Σ % RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

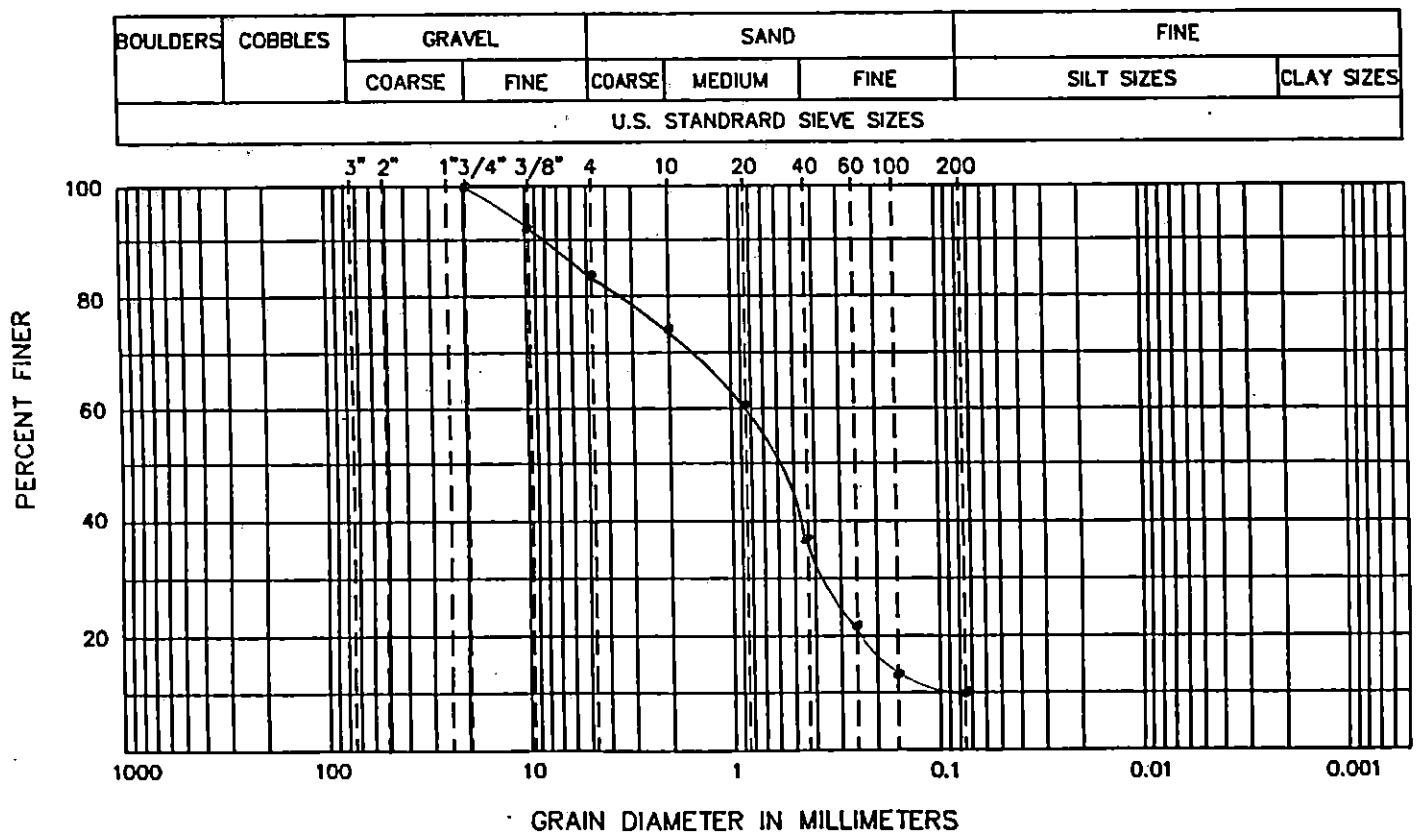
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 22 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-114 — QA ID: 21R



CURVE COEFFICIENTS

(C_u) 10.6

(C_c) 2.1

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.8
3/8-in.	91.6
NO. 4	83.2
NO. 10	74.3
NO. 20	60.4
NO. 40	37.3
NO. 60	21.7
NO. 100	13.6
NO. 200	10.0

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 22 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-114 — QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10293	10448	10576	10586	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4448	4603	4731	4741	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.0	133.5	137.2	137.5	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.8	125.8	126.6	125.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	7.9	8.1	8.0	
G	WT. OF WET SOIL & TARE	(grams)	595.4	614.9	593.8	570.9	
H	WT. OF DRY SOIL & TARE	(grams)	571.7	580.0	548.4	521.6	
I	WT. OF WATER = G - H	(grams)	23.7	34.9	45.4	49.3	
J	WT. DRY SOIL = H - F	(grams)	563.7	572.1	540.3	513.6	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.2%	6.1%	8.4%	9.6%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

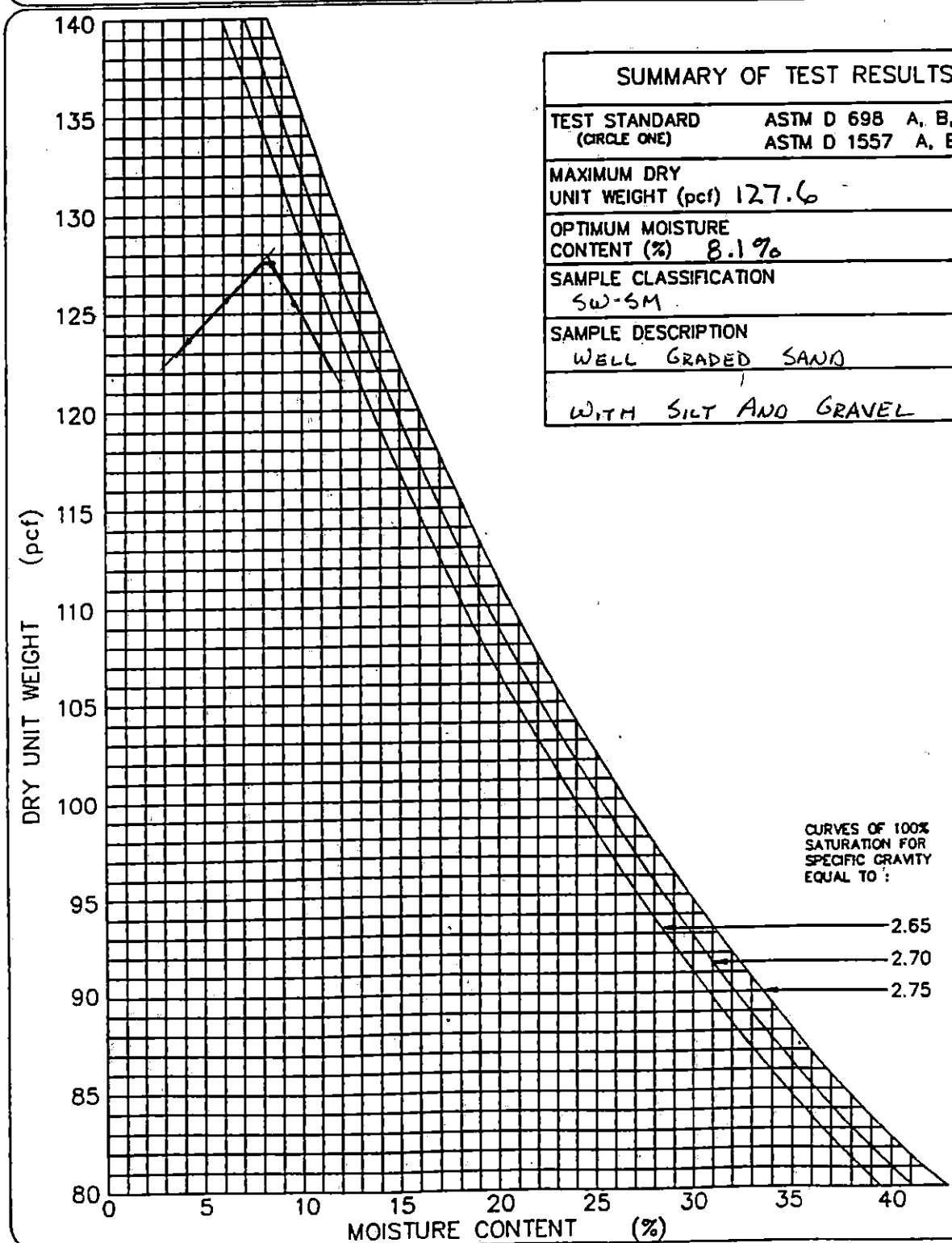
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 09 month 95 year

SOURCE: B. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-114 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	127.6
OPTIMUM MOISTURE CONTENT (%)	8.1%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 09 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-115 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1651.4	1423.3
WT. OF TARE	(grams)	17.3	19.2
WT. OF DRY SAMPLE	(grams)	1634.1	1404.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	29.4	1.8	98.2	
3/8"	9.5	93.1	5.7	94.3	
4	4.75	268.0	16.4	83.6	
10	2.0	475.5	29.1	70.9	
20	0.850	602.9	36.9	63.1	
40	0.425	985.3	60.3	39.7	
60	0.250	1237.0	75.7	24.3	
100	0.150	1361.2	83.3	16.7	
200	0.075	1403.7	85.9	14.1	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

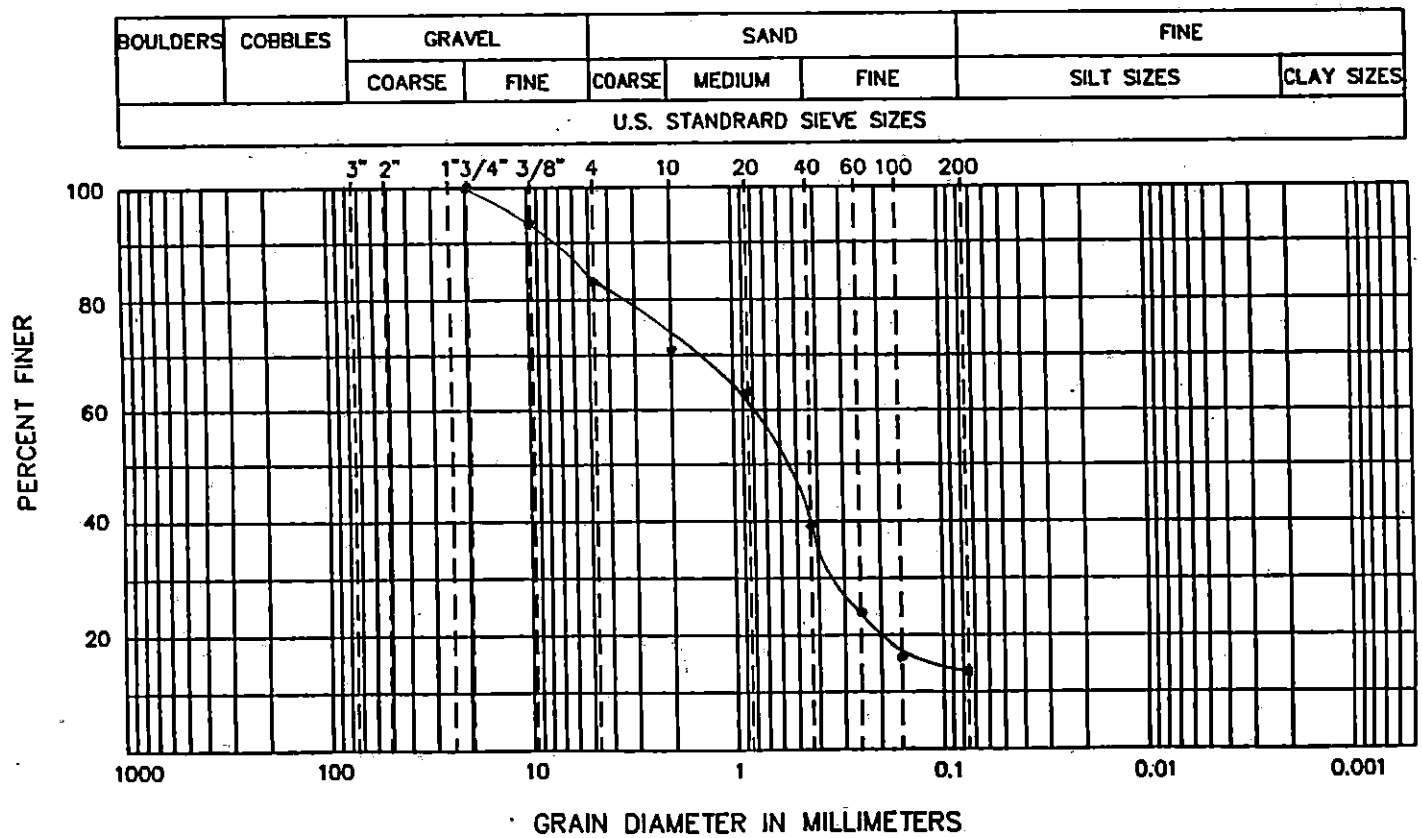
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-115 QA ID: 2/R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	98.2
3/8-in.	94.3
NO. 4	83.6
NO. 10	70.9
NO. 20	63.1
NO. 40	39.7
NO. 60	24.3
NO. 100	16.7
NO. 200	14.1

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: 5115 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10311	10483	10590	10519	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4466	4638	4745	4669	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.5	134.5	137.6	135.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.6	127.5	127.1	123.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.2	8.0	7.9	8.1	
G	WT. OF WET SOIL & TARE	(grams)	541.9	526.3	601.0	581.1	
H	WT. OF DRY SOIL & TARE	(grams)	521.9	499.3	555.5	532.3	
I	WT. OF WATER = G - H	(grams)	20.0	27.0	45.5	48.8	
J	WT. DRY SOIL = H - F	(grams)	513.7	491.3	547.6	524.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.9%	5.5%	8.3%	9.3%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

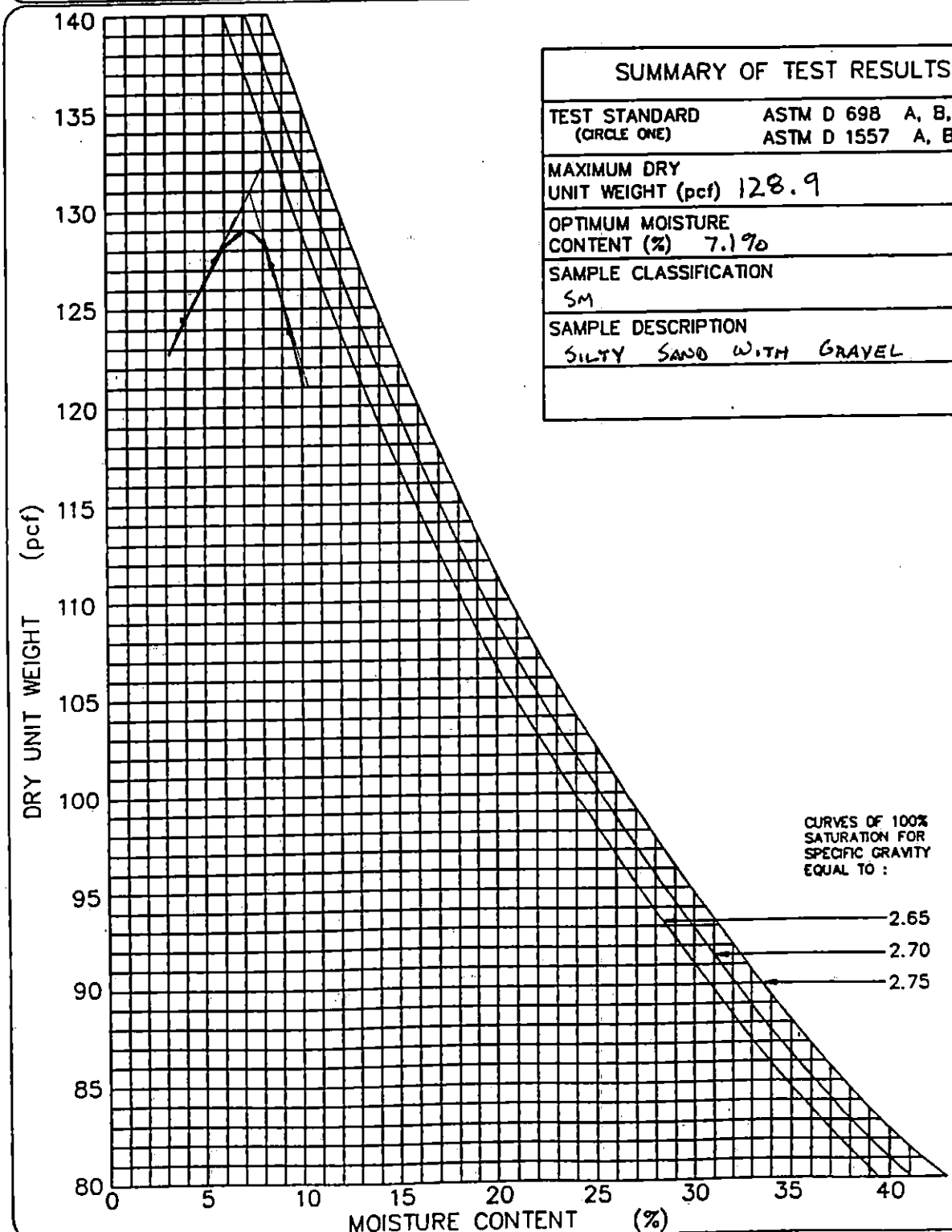
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-115 QA ID: 2/17

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.9
OPTIMUM MOISTURE CONTENT (%)	7.1%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-116 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1747.5	1569.4
WT. OF TARE	(grams)	15.9	15.9
WT. OF DRY SAMPLE	(grams)	1731.6	1553.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	79.7	4.6	95.4	
3/8"	9.5	117.7	6.8	93.2	
4	4.75	273.6	15.8	84.2	
10	2.0	522.9	30.2	69.8	
20	0.850	739.4	42.7	57.3	
40	0.425	1054.5	60.9	39.1	
60	0.250	1381.8	79.8	20.2	
100	0.150	1485.7	85.8	14.2	
200	0.075	1553.2	89.7	10.3	

%FINER = 100 − Σ % RETAINED

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TOWN OF HUNTINGTON

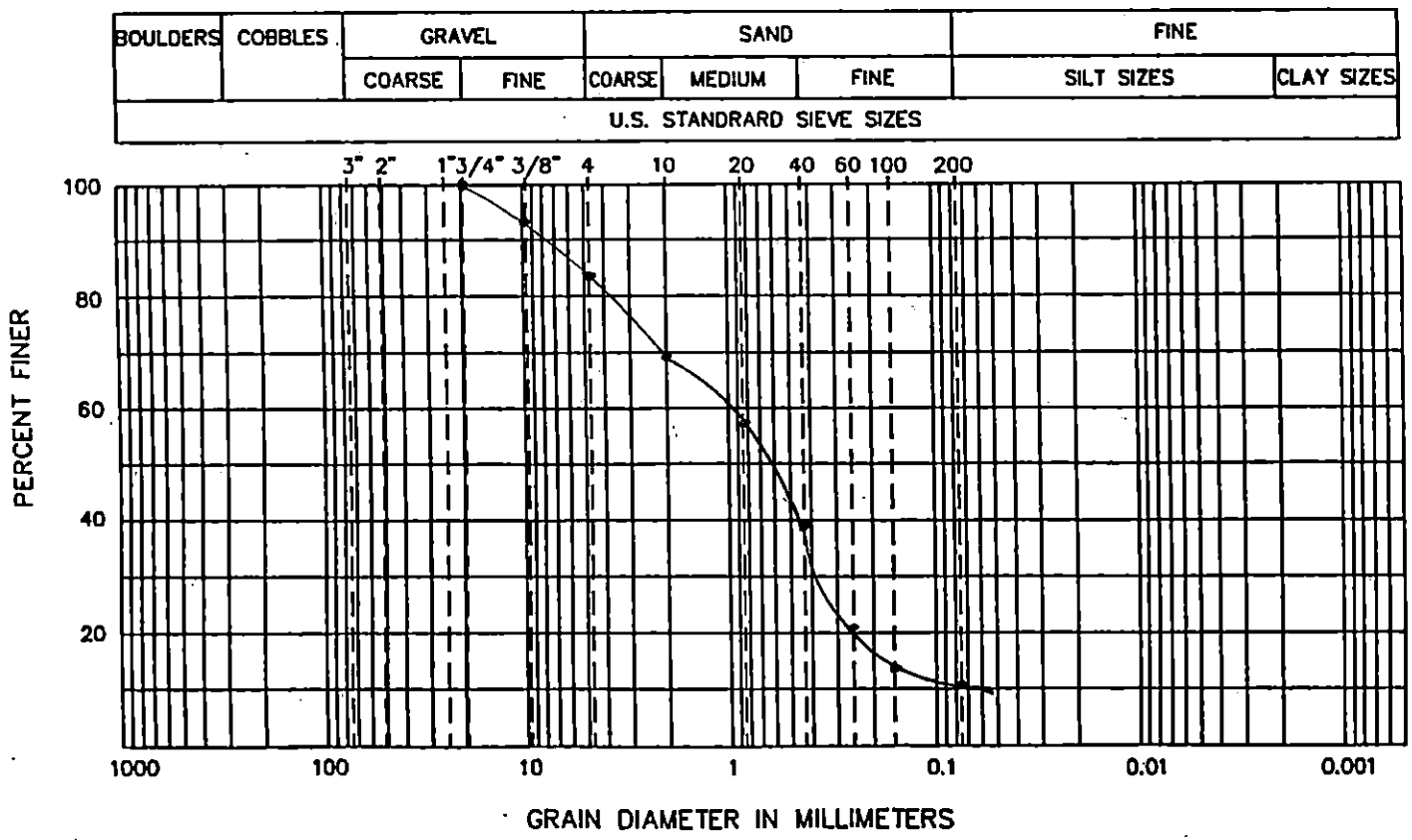
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-116 QA ID: 218



CURVE COEFFICIENTS

(C_u) 13.6

(C_c) 2.3

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.4
3/8-in.	93.2
NO. 4	84.2
NO. 10	69.8
NO. 20	57.3
NO. 40	39.1
NO. 60	30.2
NO. 100	14.2
NO. 200	10.3

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 26 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-116 — QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10204	10400	10442	10445	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4359	4555	4597	4600	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	126.4	132.1	133.3	132.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	121.0	124.3	123.5	121.4	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.7	8.1	8.0	8.1	
G	WT. OF WET SOIL & TARE	(grams)	609.9	592.4	589.4	565.2	
H	WT. OF DRY SOIL & TARE	(grams)	584.0	557.8	546.8	518.7	
I	WT. OF WATER = G - H	(grams)	25.9	34.6	42.6	46.5	
J	WT. DRY SOIL = H - F	(grams)	576.3	549.7	538.8	510.6	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.5%	6.3%	7.9%	9.1%	

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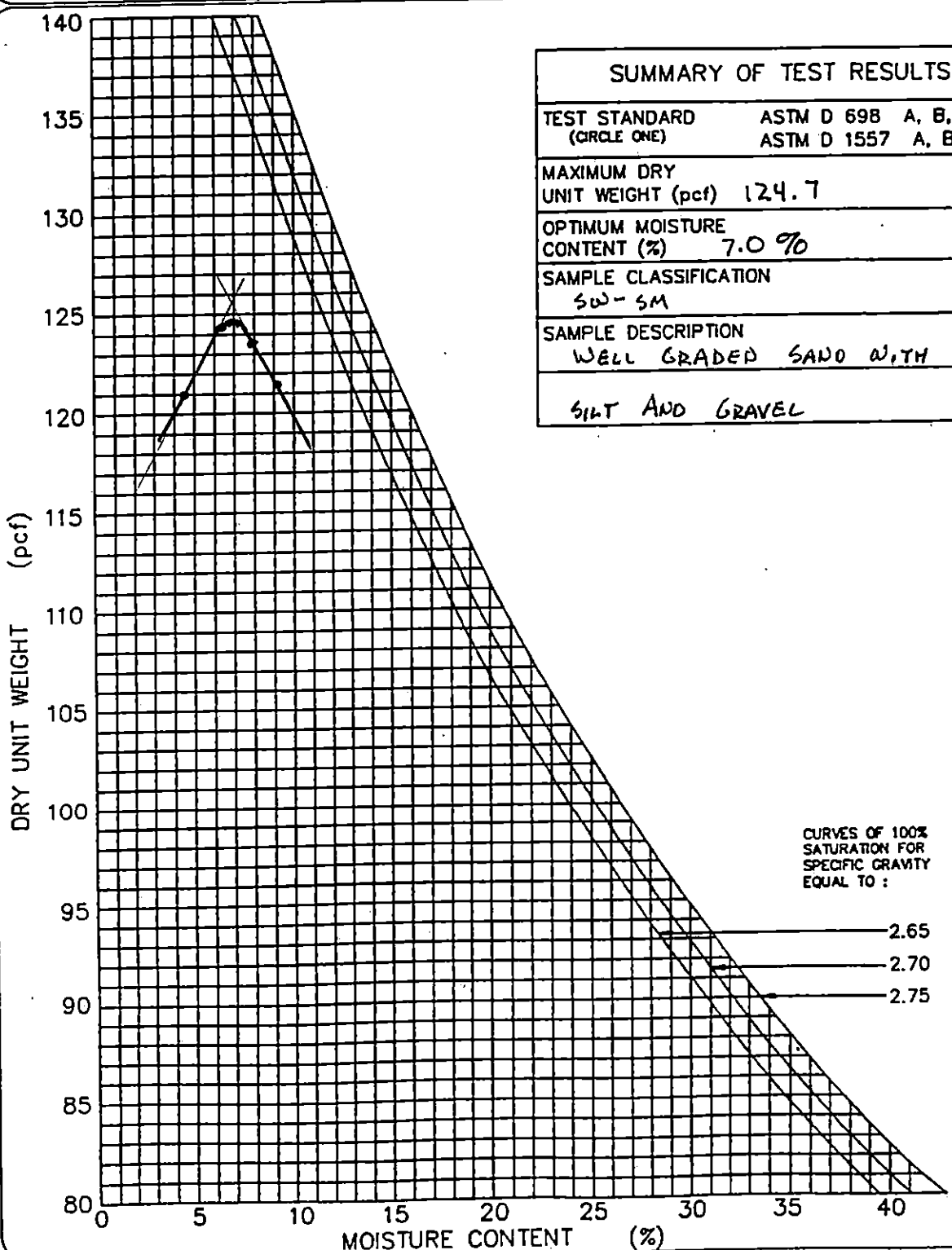
TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 09 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-116 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	124.7
OPTIMUM MOISTURE CONTENT (%)	7.0 %
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 09 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-117 QA ID: 21R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1853.9	1619.6
WT. OF TARE	(grams)	17.8	17.8
WT. OF DRY SAMPLE	(grams)	1836.1	1601.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	60.6	3.3	96.7	
3/8"	9.5	152.3	8.3	91.7	
4	4.75	297.4	16.2	83.8	
10	2.0	554.5	30.2	69.8	
20	0.850	776.7	42.3	57.7	
40	0.425	1200.8	65.4	34.6	
60	0.250	1467.0	79.9	20.1	
100	0.150	1535.0	83.6	16.4	
200	0.075	1601.1	87.2	12.8	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

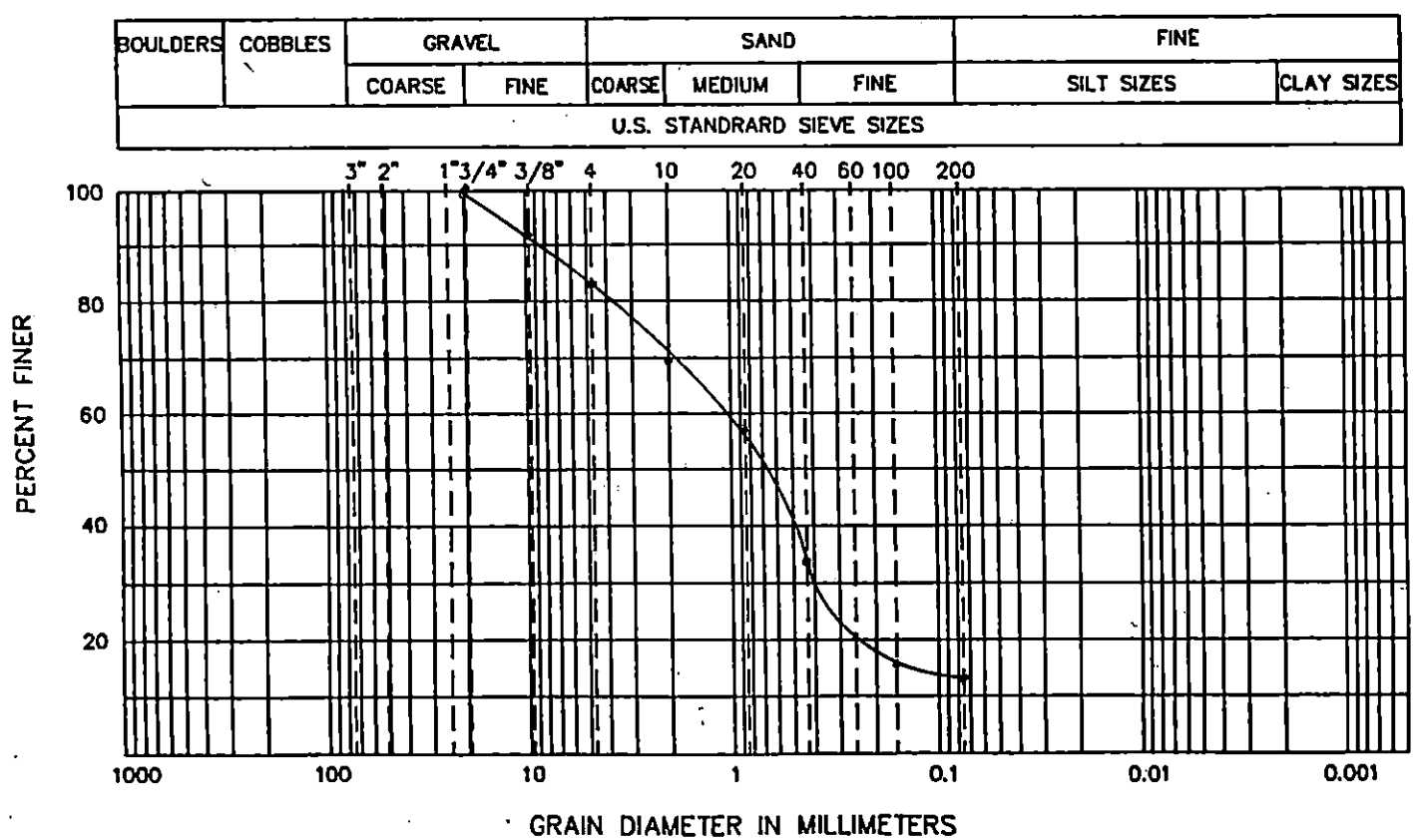
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-117 QA ID: P/F



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.7
3/8-in.	91.7
NO. 4	83.8
NO. 10	69.8
NO. 20	57.7
NO. 40	34.6
NO. 60	20.1
NO. 100	16.4
NO. 200	12.8

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

DATE: 27 day 09 month 91 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

SAMPLE NO.: S-117 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10269	10445	10545	10528	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4424	4600	4700	4683	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.3	133.4	136.3	135.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.2	125.6	125.3	123.2	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	7.9	8.3	8.1	
G	WT. OF WET SOIL & TARE	(grams)	562.3	591.7	560.2	603.3	
H	WT. OF DRY SOIL & TARE	(grams)	540.5	557.6	515.6	548.2	
I	WT. OF WATER = G - H	(grams)	21.8	34.1	44.6	55.1	
J	WT. DRY SOIL = H - F	(grams)	532.6	549.7	507.3	540.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.1%	6.2%	8.8%	10.2%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

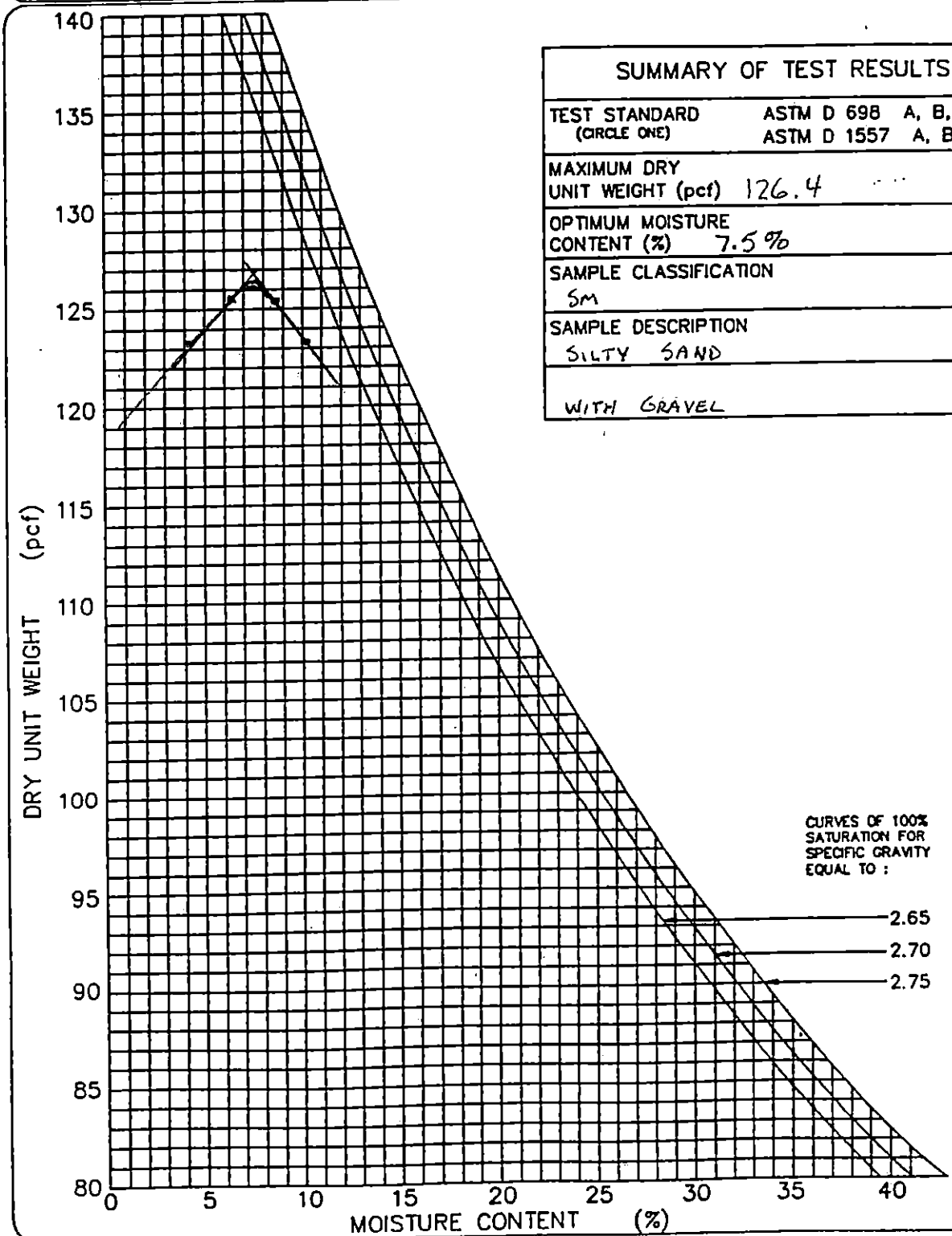
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-117 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	126.4
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND
	WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-11B QA ID: P1P

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1652.6	1491.5
WT. OF TARE	(grams)	17.8	17.8
WT. OF DRY SAMPLE	(grams)	1634.8	1473.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	31.1	1.9	98.1	
3/8"	9.5	114.4	7.0	93.0	
4	4.75	282.8	17.3	82.7	
10	2.0	500.2	30.6	69.4	
20	0.850	722.6	44.2	55.8	
40	0.425	1059.4	64.8	35.2	
60	0.250	1329.1	81.3	18.7	
100	0.150	1428.8	87.4	12.6	
200	0.075	1473.0	90.1	9.9	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

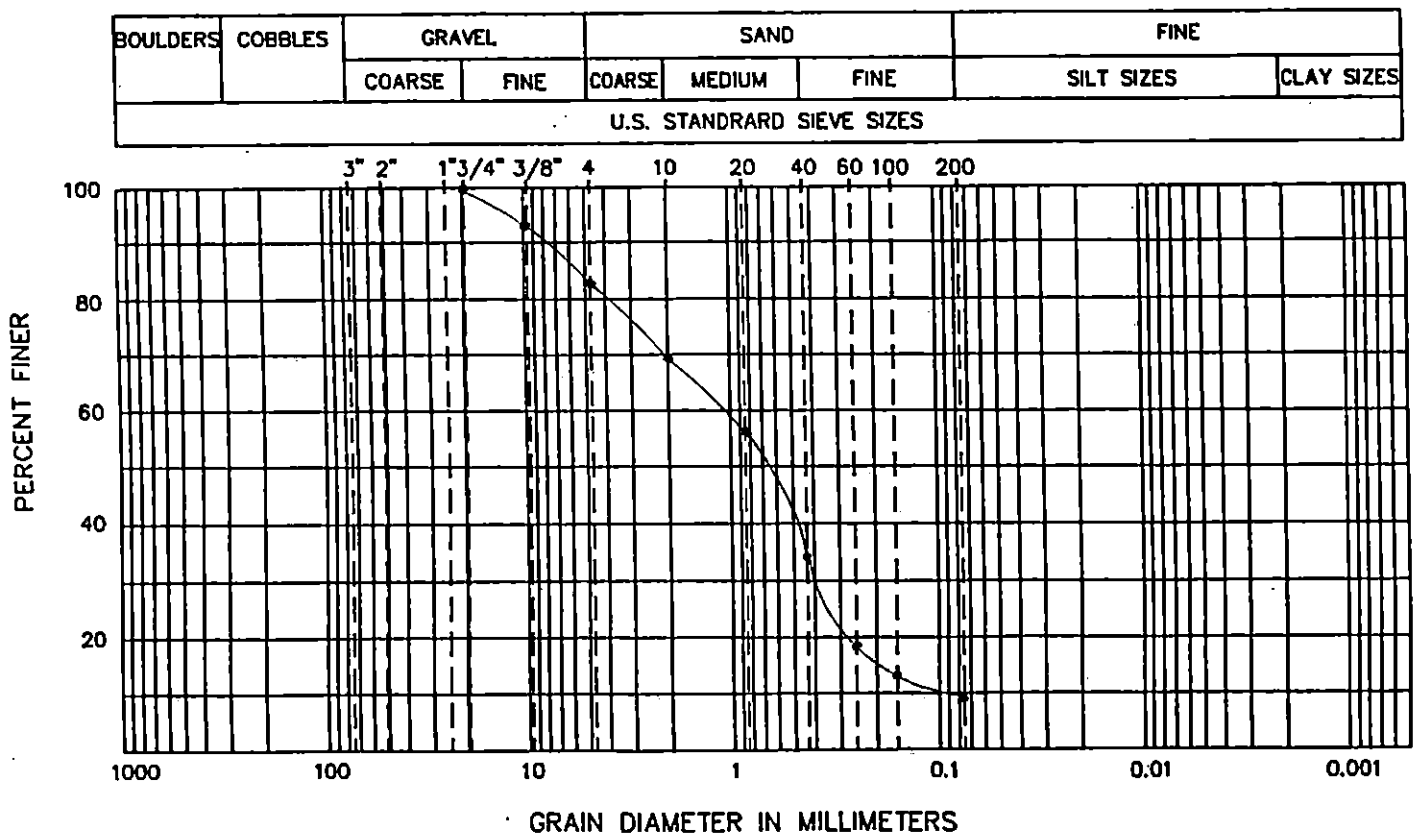
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-118 QA ID: PAR



CURVE COEFFICIENTS

(C_u) 12.2

(C_c) 1.6

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.6
1/2-in.	98.1
3/8-in.	93.0
NO. 4	82.7
NO. 10	69.4
NO. 20	55.8
NO. 40	36.2
NO. 60	18.7
NO. 100	12.6
NO. 200	9.9

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 28 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-118 QA ID: 3/18

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10255	10390	10473	10469	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4410	4545	4628	4624	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.9	131.8	134.2	134.1	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.7	124.1	124.1	122.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.1	8.0	
G	WT. OF WET SOIL & TARE	(grams)	626.7	604.0	571.9	566.0	
H	WT. OF DRY SOIL & TARE	(grams)	601.8	569.2	529.7	517.6	
I	WT. OF WATER = G - H	(grams)	24.9	34.8	42.2	48.4	
J	WT. DRY SOIL = H - F	(grams)	593.6	561.2	521.6	509.6	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.2%	6.2%	8.1%	9.5%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

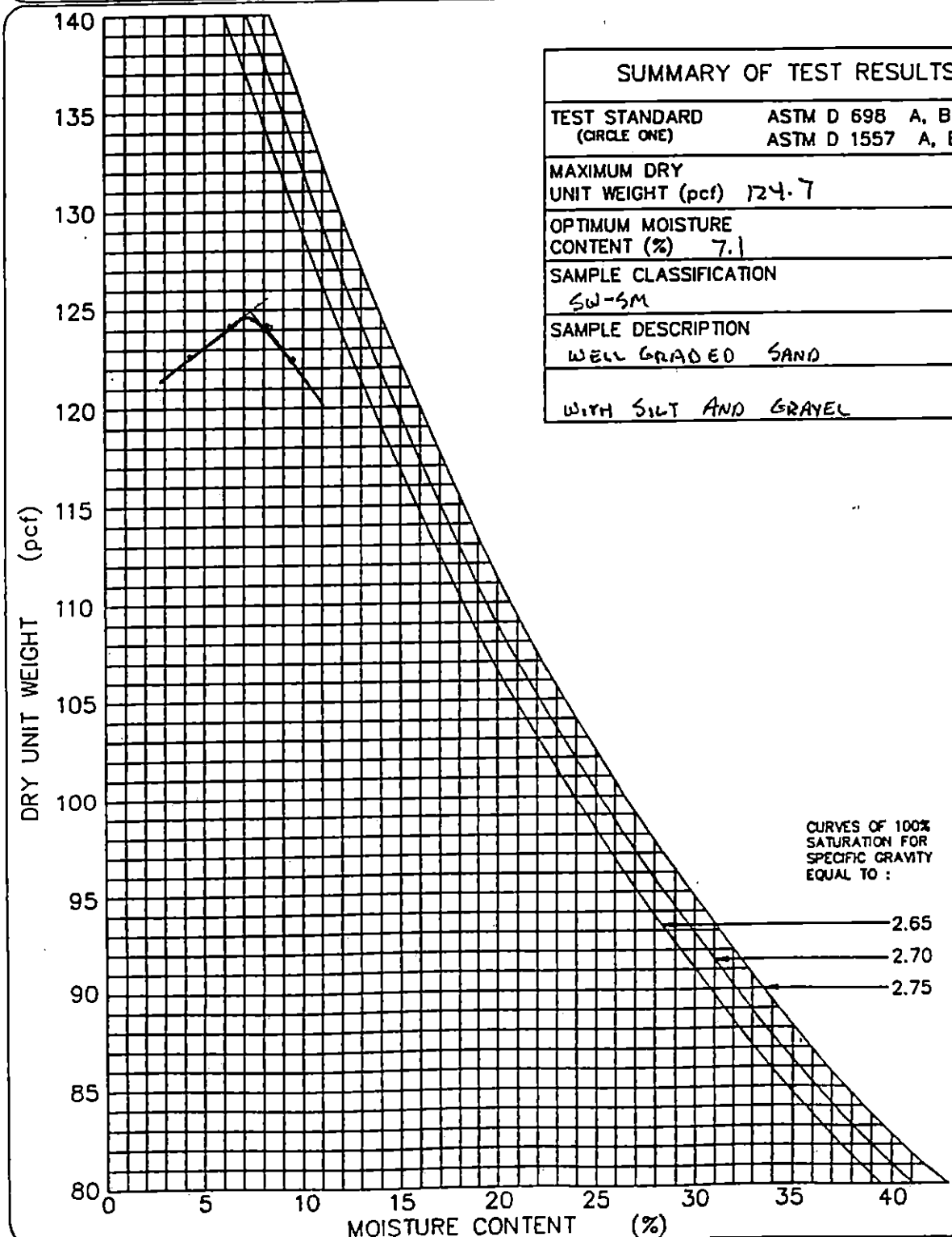
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-118 QA ID: P/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	124.7
OPTIMUM MOISTURE CONTENT (%)	7.1
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: G03700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-119 QA ID: 21R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1624.6	1401.8
WT. OF TARE	(grams)	17.3	17.3
WT. OF DRY SAMPLE	(grams)	1607.3	1384.5

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	6.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	43.4	2.7	97.3	
3/8"	9.5	70.7	4.4	95.6	
4	4.75	295.7	18.4	81.6	
10	2.0	487.0	30.3	69.7	
20	0.850	599.5	37.3	62.7	
40	0.425	978.8	60.9	39.1	
60	0.250	1202.3	74.8	25.2	
100	0.150	1324.4	82.4	17.6	
200	0.075	1383.9	86.1	13.9	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

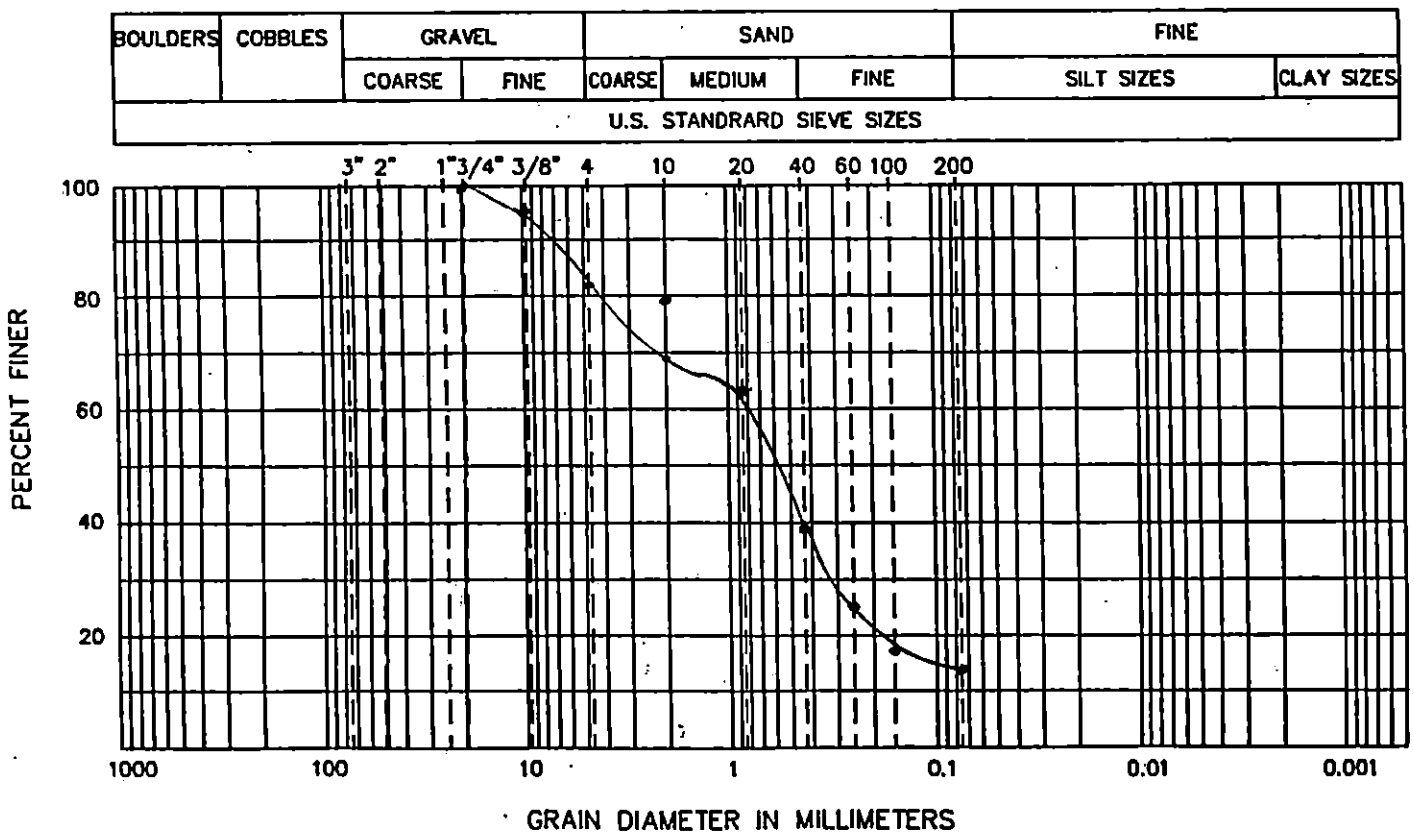
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 29 day 09 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-119 — QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	100.0
3/4-in.	100.0
1/2-in.	97.3
3/8-in.	95.6
NO. 4	81.6
NO. 10	69.7
NO. 20	62.7
NO. 40	39.1
NO. 60	25.2
NO. 100	17.6
NO. 200	13.9

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-119 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10366	10545	10624	10555	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4521	4700	4779	4710	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.1	136.3	138.6	136.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.5	128.2	128.0	124.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.1	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	547.4	570.3	552.4	551.7	
H	WT. OF DRY SOIL & TARE	(grams)	524.2	537.0	510.7	505.0	
I	WT. OF WATER = G - H	(grams)	23.2	33.3	41.7	46.7	
J	WT. DRY SOIL = H - F	(grams)	516.3	528.9	502.7	496.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.5%	6.3%	8.3%	9.4%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

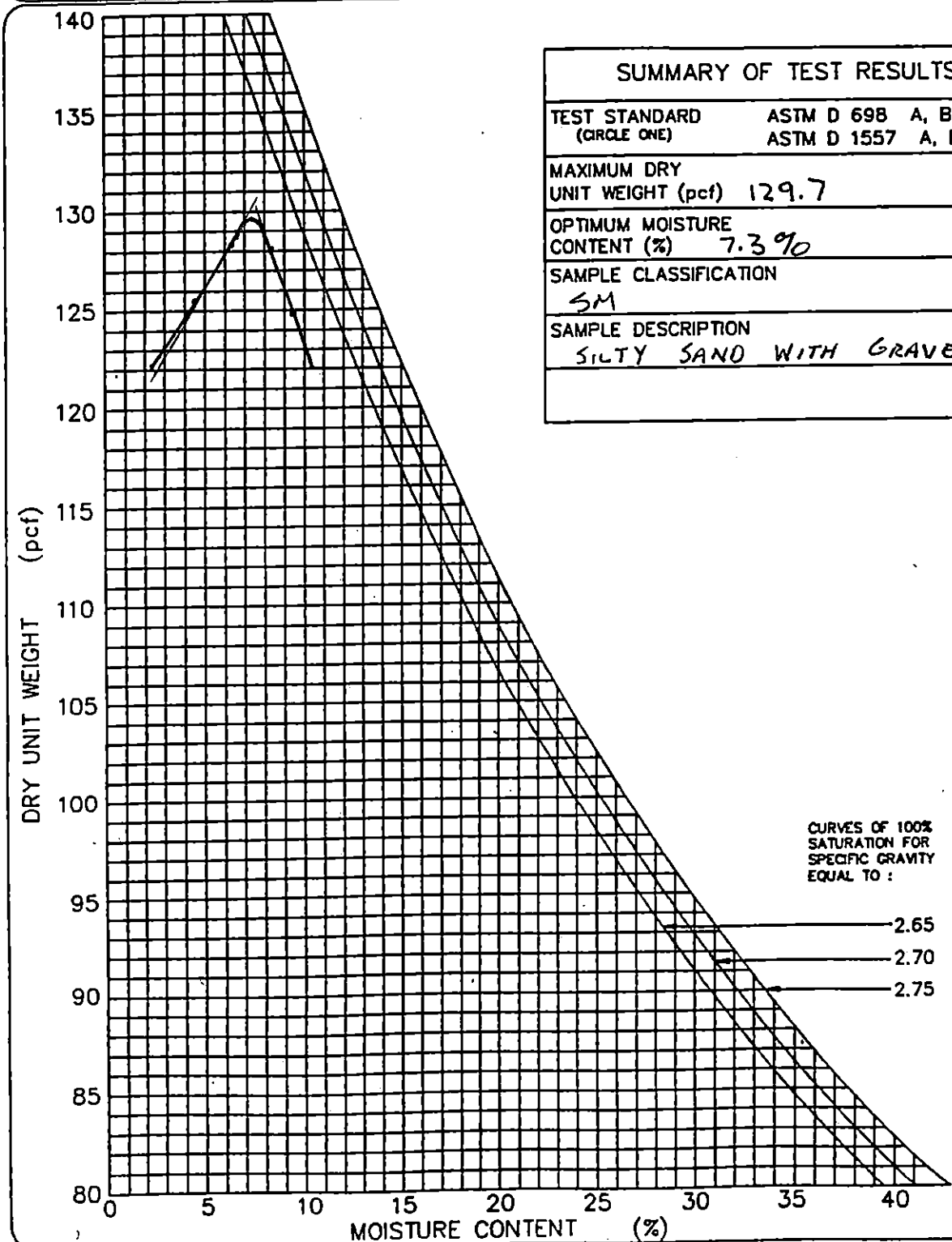
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 09 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-119 QA ID: D/F

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.7
OPTIMUM MOISTURE CONTENT (%)	7.3%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 02 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-120 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1780.8	1610.5
WT. OF TARE	(grams)	17.6	17.6
WT. OF DRY SAMPLE	(grams)	1763.2	1592.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	75.8	4.3	95.7	
3/8"	9.5	171.0	9.7	90.3	
4	4.75	287.4	16.3	83.7	
10	2.0	500.7	28.4	71.6	
20	0.850	701.8	39.8	60.2	
40	0.425	1109.1	62.9	37.1	
60	0.250	1422.9	80.7	19.3	
100	0.150	1514.6	85.9	14.1	
200	0.075	1592.2	90.3	9.7	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

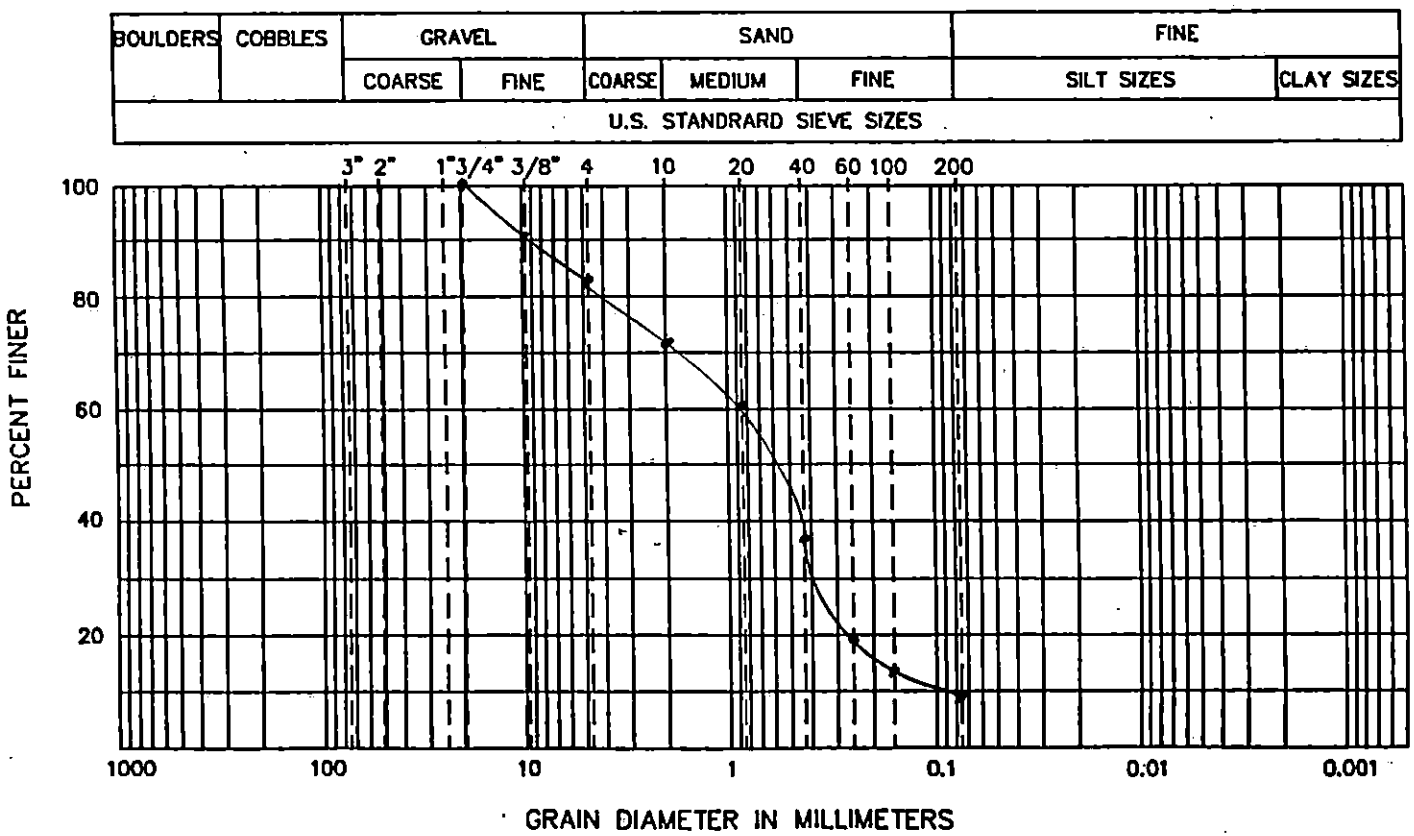
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 02 day 10 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-120 — QA ID: 31R



CURVE COEFFICIENTS

(C_u) 9.9

(C_c) 2.0

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.7
3/8-in.	90.3
NO. 4	83.7
NO. 10	71.6
NO. 20	60.2
NO. 40	37.1
NO. 60	19.3
NO. 100	14.1
NO. 200	9.7

SOIL CLASSIFICATION (ASTM D 2487): SW - SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 02 day 10 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-120 — QA ID: F/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10186	10380	10435	10383	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A − B	(grams)	4341	4535	4590	4538	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	125.9	131.5	133.1	131.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	120.5	123.9	123.1	120.6	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT − ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	545.7	531.9	567.5	589.4	
H	WT. OF DRY SOIL & TARE	(grams)	522.5	501.8	525.6	540.9	
I	WT. OF WATER = G − H	(grams)	23.2	30.1	41.9	48.5	
J	WT. DRY SOIL = H − F	(grams)	514.6	493.8	517.6	532.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.5 %	6.1 %	8.1 %	9.1 %	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

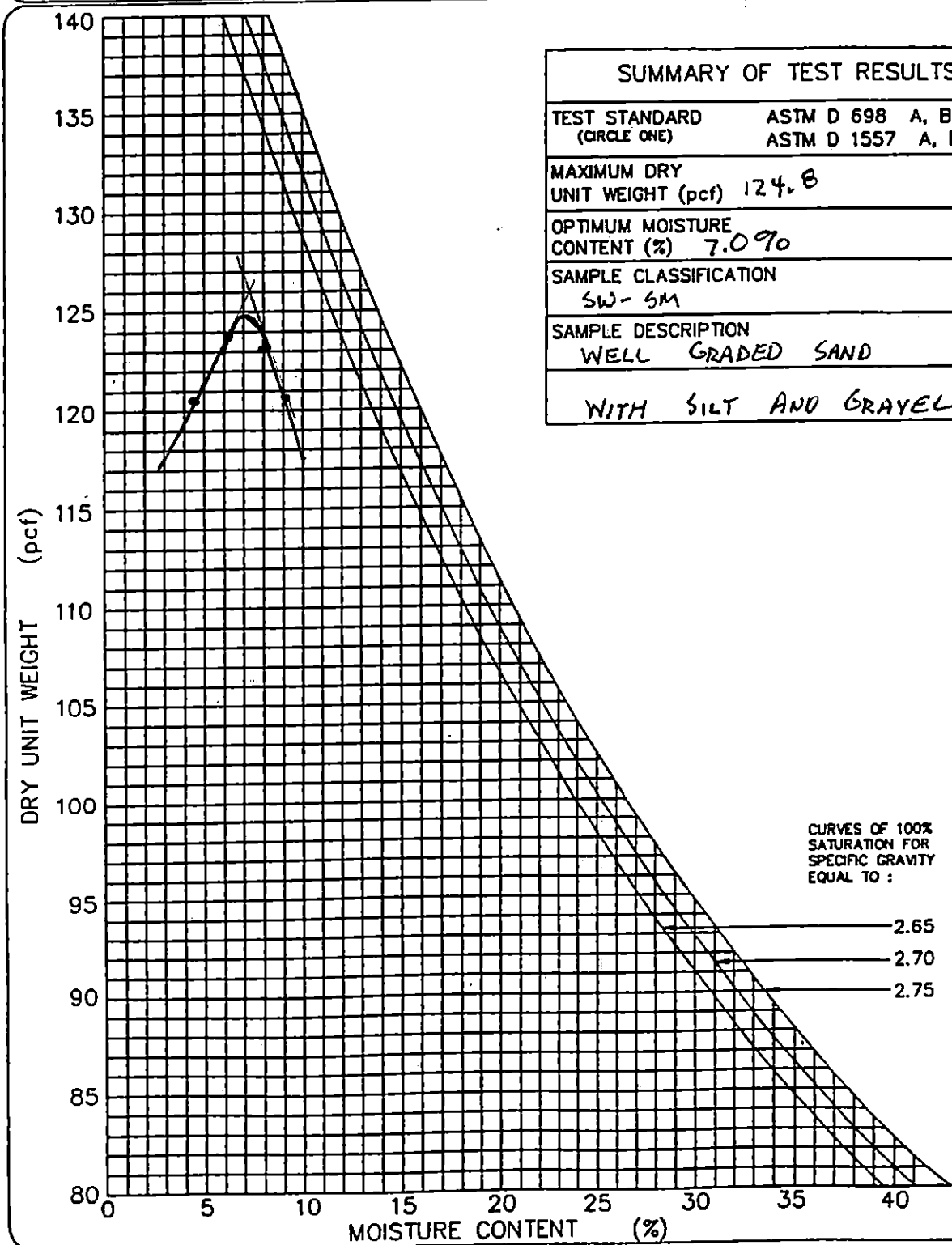
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 02 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-120 QA ID: DAR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	124.8
OPTIMUM MOISTURE CONTENT (%)	7.0%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 04 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-121 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1497.5	1330.0
WT. OF TARE	(grams)	17.3	16.0
WT. OF DRY SAMPLE	(grams)	1480.2	1314.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	114.9	7.7	92.3	
3/8"	9.5	189.1	12.8	87.2	
4	4.75	391.4	26.4	73.6	
10	2.0	554.3	37.4	62.6	
20	0.850	731.8	49.4	50.6	
40	0.425	997.3	67.4	32.6	
60	0.250	1197.1	80.9	19.1	
100	0.150	1275.7	86.2	13.8	
200	0.075	1313.1	88.7	11.3	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

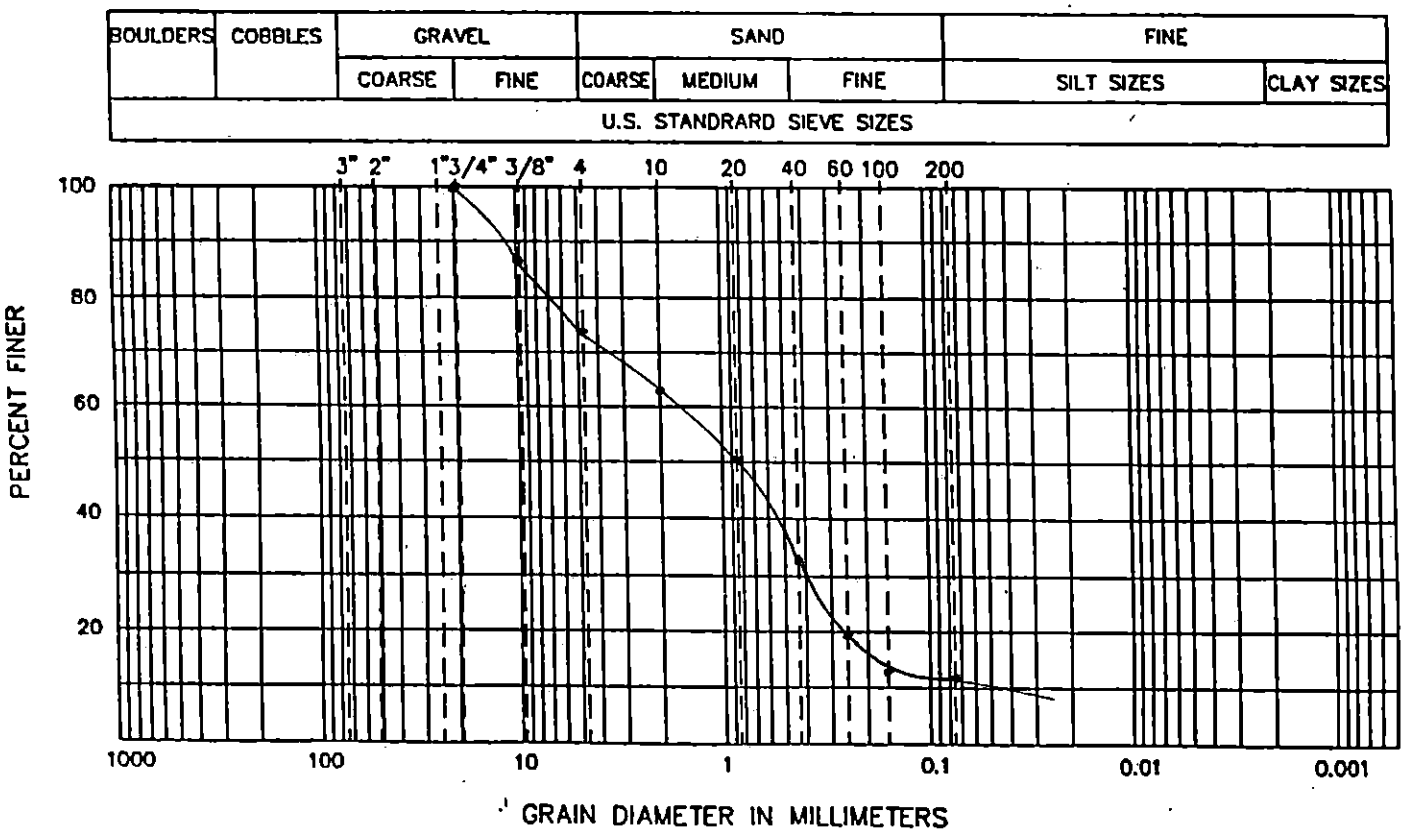
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 4 day 10 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-121 — QA ID: JAR



CURVE COEFFICIENTS

(C_u) 37.5

(C_c) 2.7

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	92.3
3/8-in.	87.2
NO. 4	73.6
NO. 10	62.6
NO. 20	50.6
NO. 40	32.6
NO. 60	19.1
NO. 100	13.8
NO. 200	11.3

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 04 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-121 QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10270	10505	10676	10617	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4425	4660	4831	4772	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.3	135.1	140.1	138.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.5	127.6	129.4	126.2	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	690.9	663.0	580.4	616.1	
H	WT. OF DRY SOIL & TARE	(grams)	665.2	626.5	536.5	562.4	
I	WT. OF WATER = G - H	(grams)	25.7	36.5	43.9	53.7	
J	WT. DRY SOIL = H - F	(grams)	657.2	618.5	528.4	554.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.9%	5.9%	8.3%	9.7%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

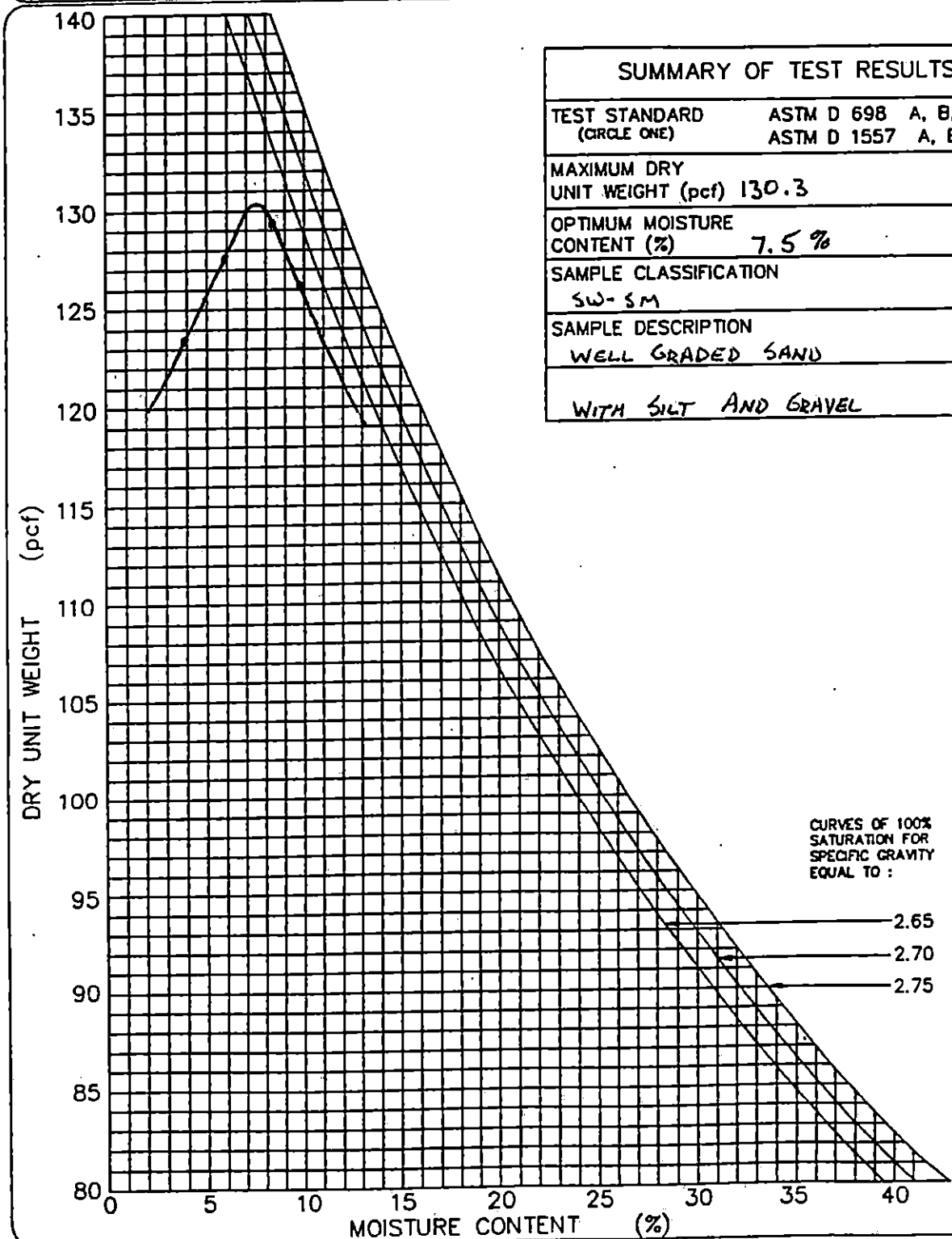
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 04 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-121 QA ID: 2/R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.3
OPTIMUM MOISTURE CONTENT (%)	7.5 %
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 10 month 95 year

SOURCE: B. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-122 QA ID: N/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1581.7	1372.6
WT. OF TARE	(grams)	17.0	16.0
WT. OF DRY SAMPLE	(grams)	1564.7	1356.6

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	83.6	5.3	94.7	
3/8"	9.5	152.1	9.7	90.3	
4	4.75	374.9	24.0	76.0	
10	2.0	545.0	34.8	65.2	
20	0.850	762.4	48.7	51.3	
40	0.425	1104.8	70.6	29.4	
60	0.250	1266.0	80.9	19.1	
100	0.150	1329.1	84.9	15.1	
200	0.075	1355.9	86.7	13.3	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

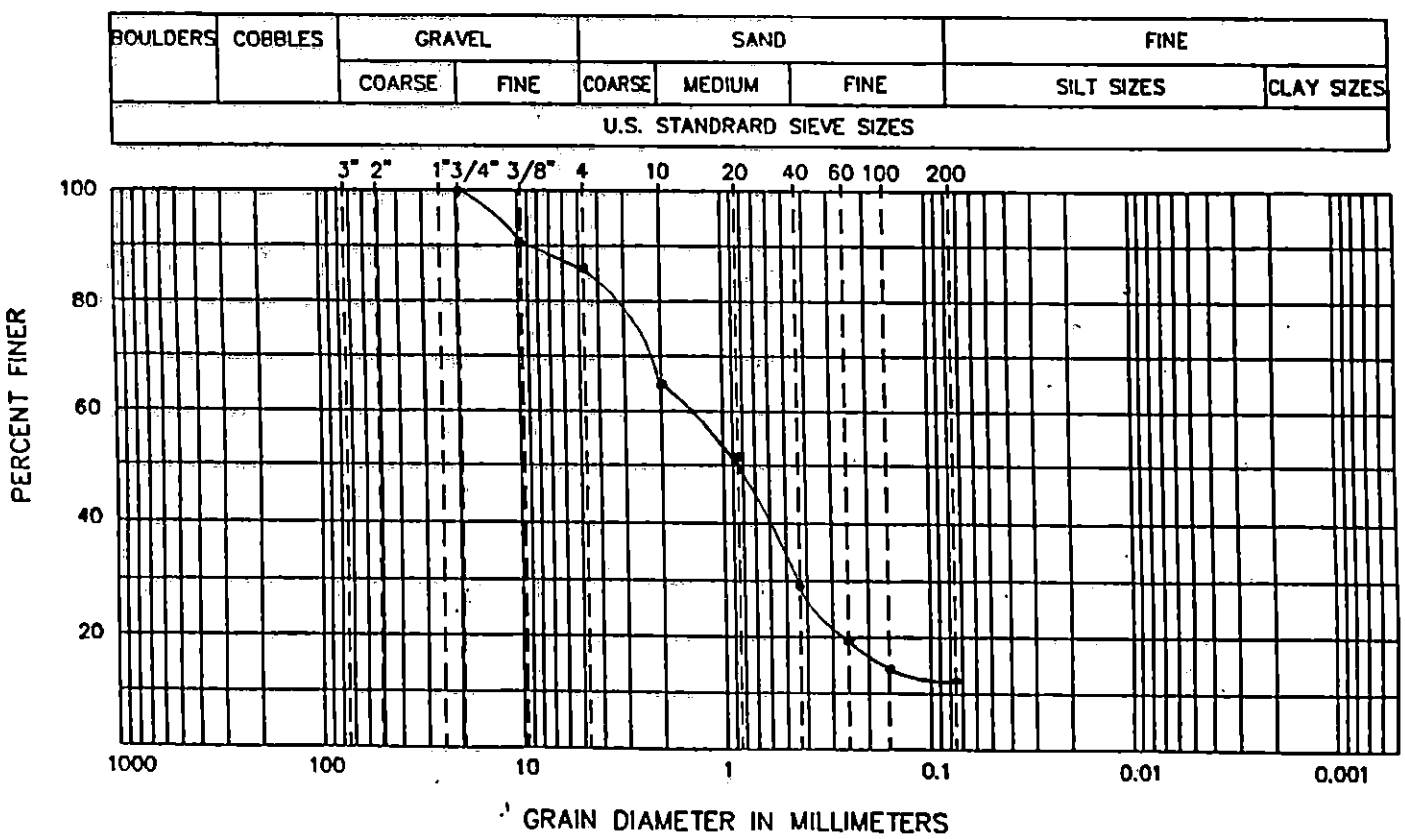
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-122 QA ID: D/R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.7
3/8-in.	90.3
NO. 4	76.0
NO. 10	65.2
NO. 20	51.3
NO. 40	29.4
NO. 60	19.1
NO. 100	15.1
NO. 200	13.3

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-122 QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10330	10550	10630	10570	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4485	4705	4785	4725	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.1	136.4	138.8	137.0	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.5	128.3	127.9	124.3	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.2	8.3	
G	WT. OF WET SOIL & TARE	(grams)	646.1	595.9	599.0	508.3	
H	WT. OF DRY SOIL & TARE	(grams)	618.7	561.1	552.9	461.8	
I	WT. OF WATER = G - H	(grams)	27.4	34.8	46.1	46.5	
J	WT. DRY SOIL = H - F	(grams)	610.7	553.1	544.7	453.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.5%	6.3%	8.5%	10.2 %	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

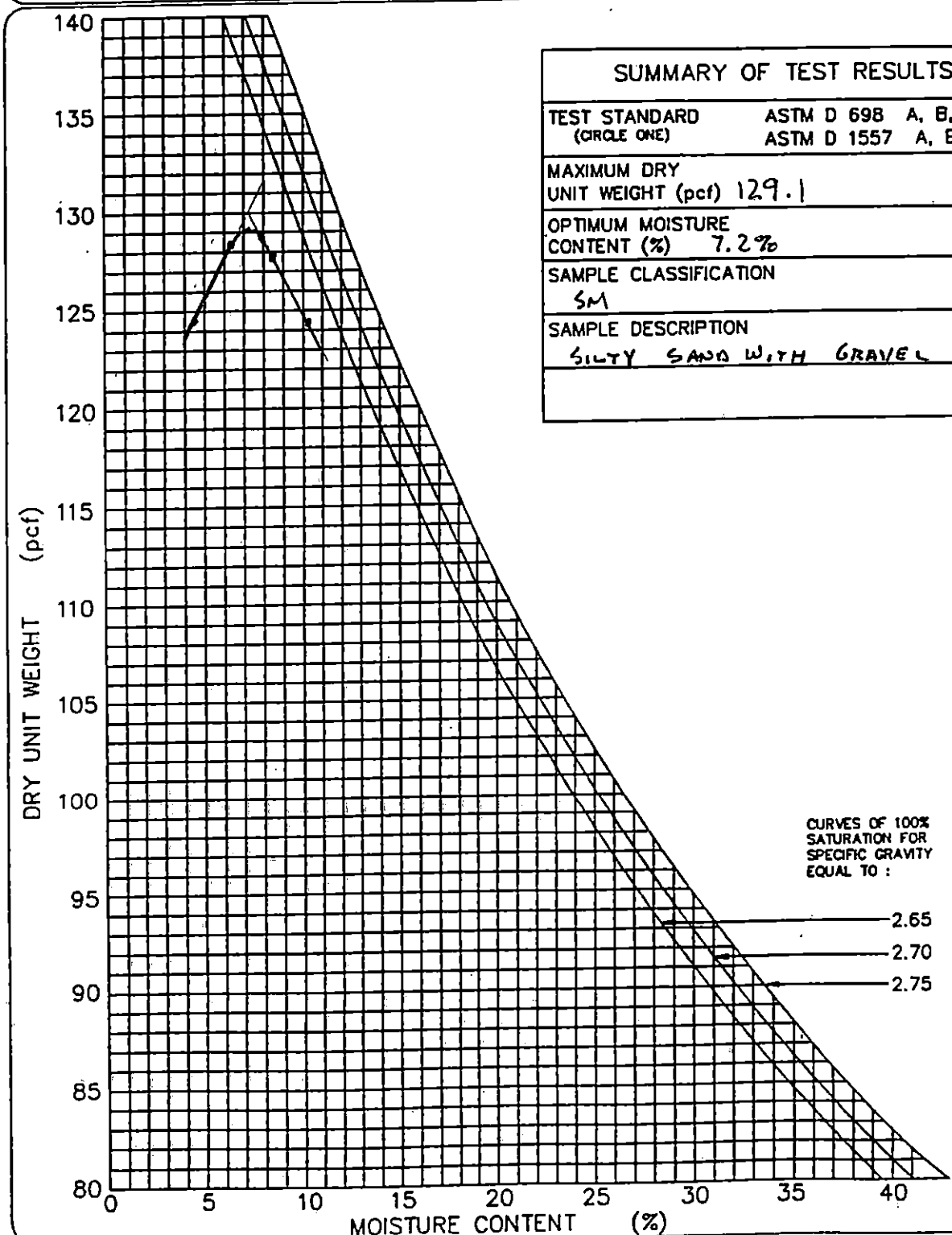
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-122 QA ID: 21R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.1
OPTIMUM MOISTURE CONTENT (%)	7.2%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-123 QA ID: 95

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1651.3	1456.7
WT. OF TARE	(grams)	19.6	16.0
WT. OF DRY SAMPLE	(grams)	1631.7	1440.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	70.2	4.3	95.7	
3/8"	9.5	125.6	7.7	92.3	
4	4.75	290.4	17.8	82.2	
10	2.0	487.9	29.9	70.1	
20	0.850	745.7	45.7	54.3	
40	0.425	1008.4	61.8	38.2	
60	0.250	1293.9	79.3	20.7	
100	0.150	1388.6	85.1	14.9	
200	0.075	1439.2	88.2	11.8	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

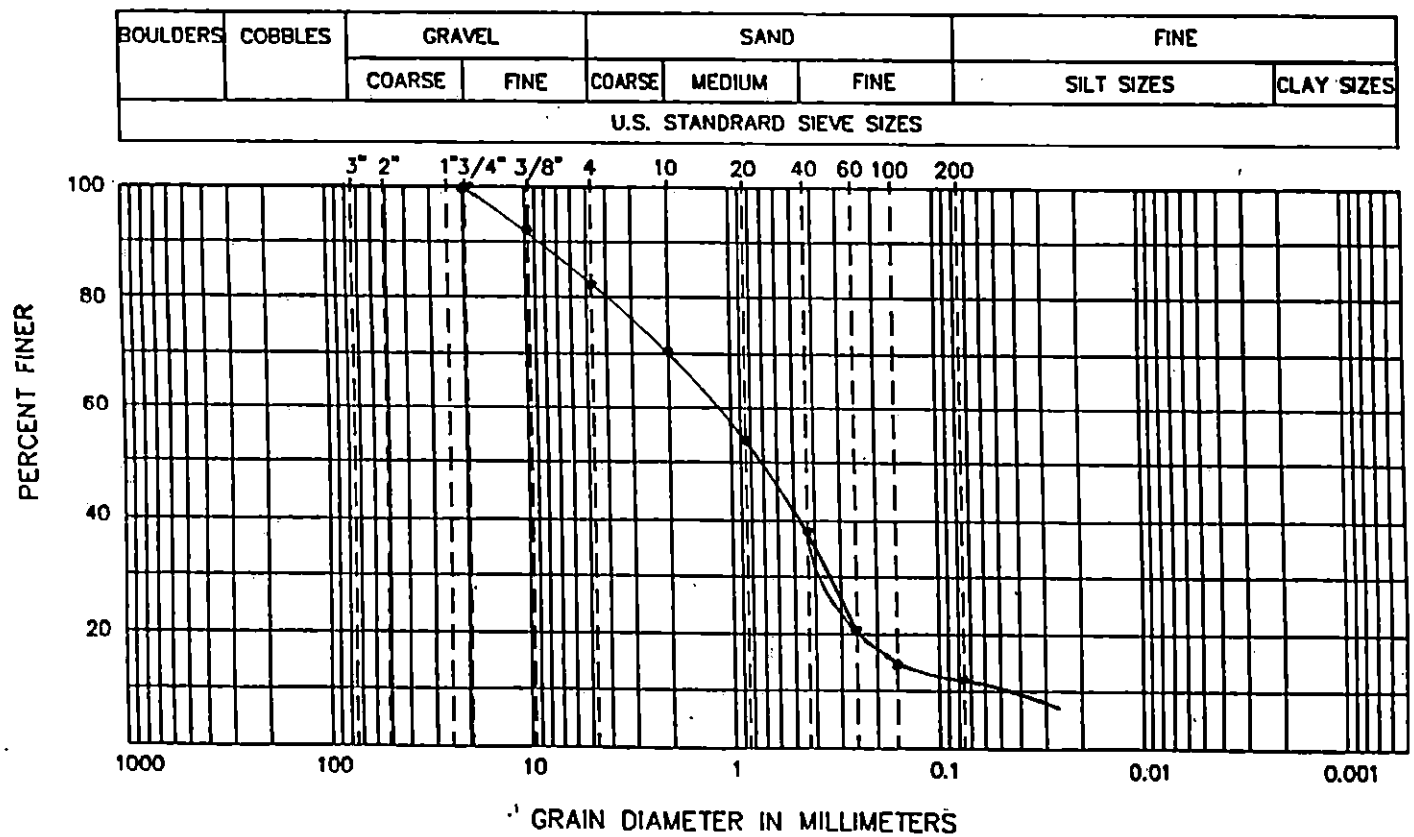
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 09 day 10 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-123 QA ID: 7/R



CURVE COEFFICIENTS

(C_u) 25.0

(C_c) 7.5

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.7
3/8-in.	92.3
NO. 4	82.2
NO. 10	70.1
NO. 20	54.3
NO. 40	38.2
NO. 60	20.7
NO. 100	14.9
NO. 200	11.8

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 09 day 10 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-123 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10348	10466	10555	10524	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4503	4621	4710	4679	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.6	134.0	136.6	135.7	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.3	125.8	125.7	123.0	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	632.8	587.0	618.1	570.6	
H	WT. OF DRY SOIL & TARE	(grams)	602.5	551.7	569.3	517.2	
I	WT. OF WATER = G - H	(grams)	30.3	35.3	48.8	53.4	
J	WT. DRY SOIL = H - F	(grams)	594.6	543.7	561.3	508.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.1%	6.5%	8.7%	10.3%	

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TOWN OF HUNTINGTON

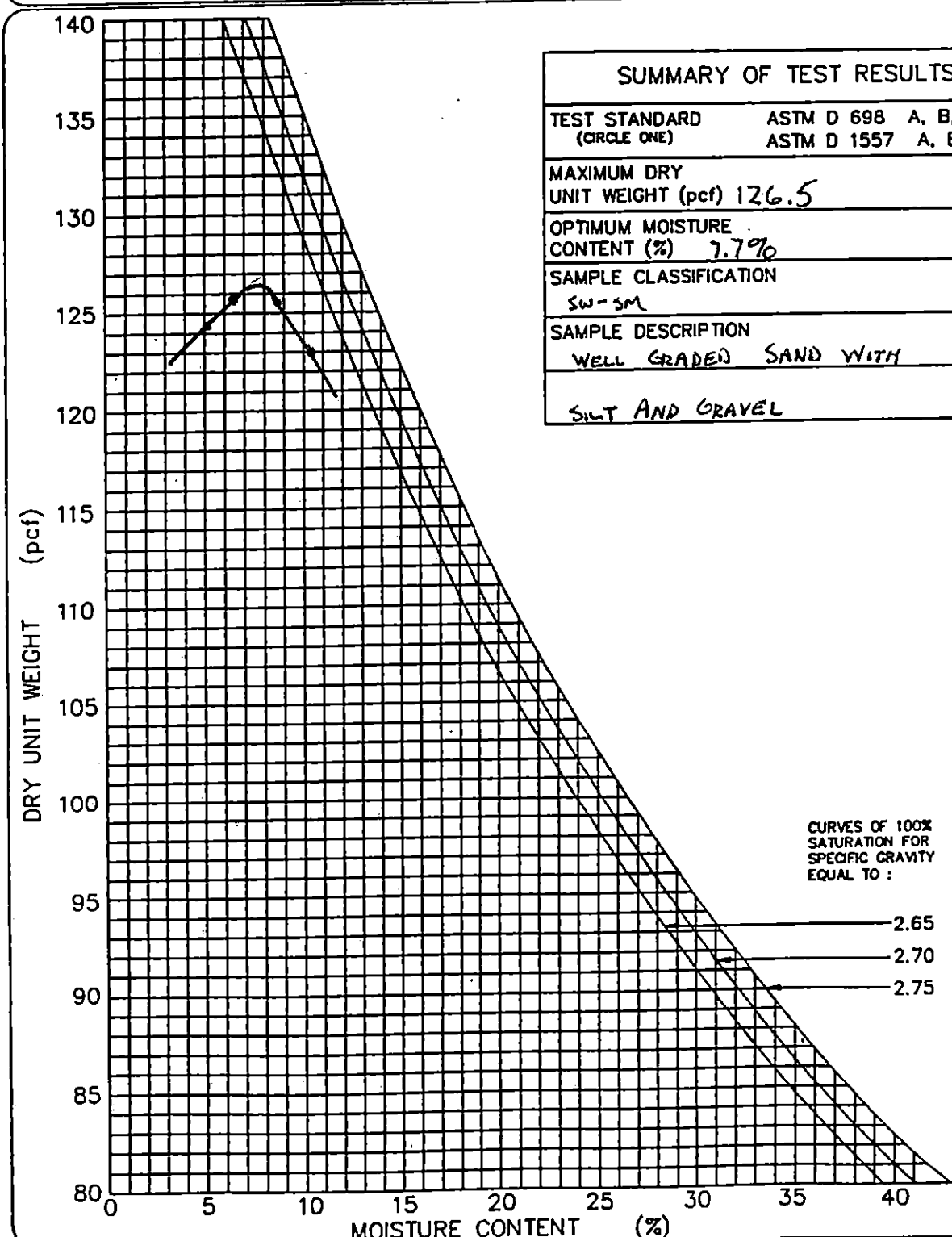
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 09 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-123 QA ID: P/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	126.5
OPTIMUM MOISTURE CONTENT (%)	7.7%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-124 QA ID: D1R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1756.4	1565.4
WT. OF TARE	(grams)	18.6	16.1
WT. OF DRY SAMPLE	(grams)	1737.8	1549.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	99.1	5.7	94.3	
3/8	9.5	187.7	10.8	89.2	
4	4.75	439.7	25.3	74.7	
10	2.0	677.7	39.0	61.0	
20	0.850	870.6	50.1	49.9	
40	0.425	1117.4	64.3	35.7	
60	0.250	1378.1	79.3	20.7	
100	0.150	1492.8	85.9	14.1	
200	0.075	1548.4	89.1	10.9	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

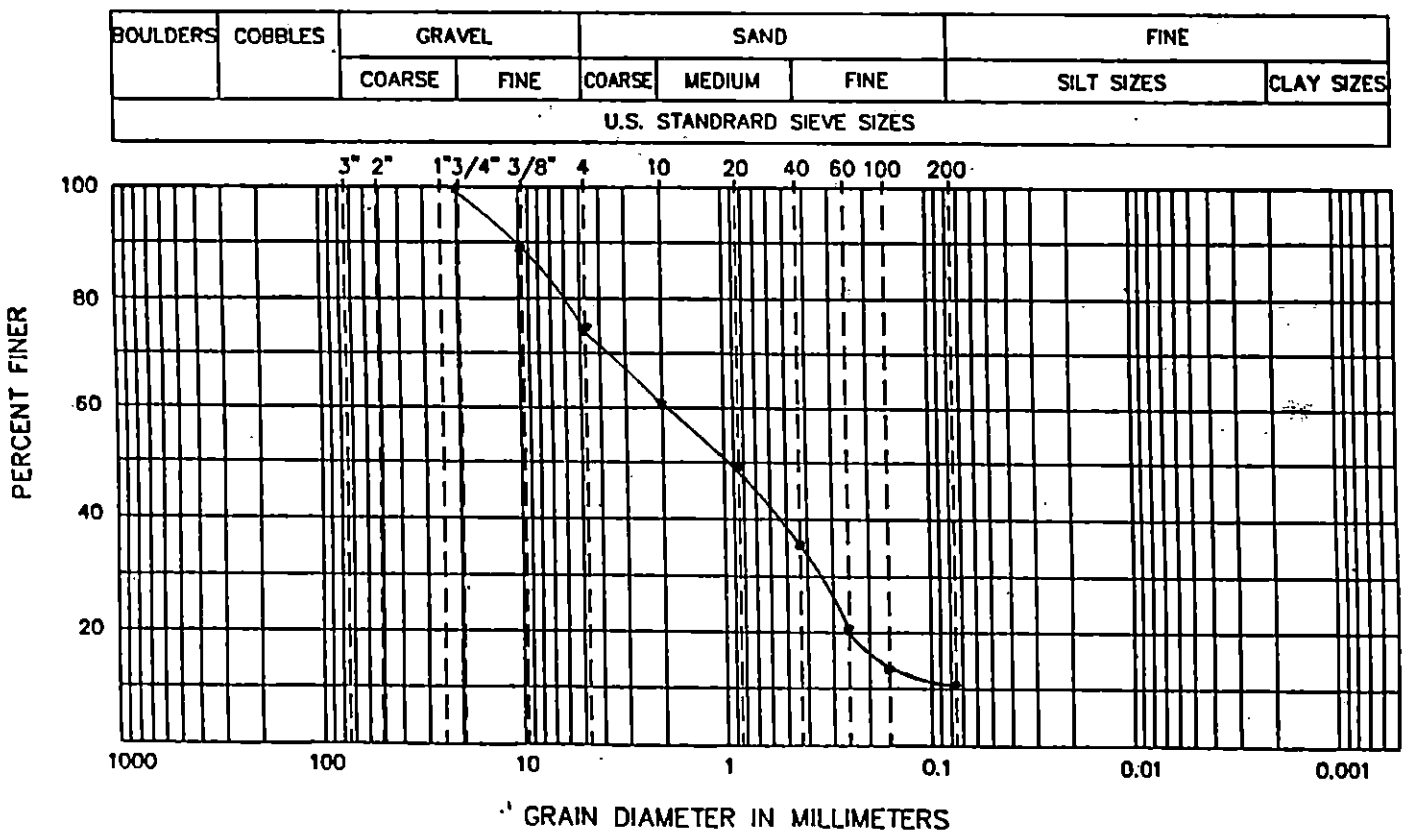
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-124 QA ID: 2/1R



CURVE COEFFICIENTS

(C_u) 33.3

(C_c) 1.0

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.6
1/2-in.	94.3
3/8-in.	89.2
NO. 4	74.7
NO. 10	61.0
NO. 20	49.9
NO. 40	35.7
NO. 60	20.7
NO. 100	14.1
NO. 200	10.9

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-124 QA ID: PAT

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10311	10462	10673	10590	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4466	4617	4828	4745	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.5	133.9	140.0	137.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.2	126.9	129.0	124.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT -- ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.8	8.1	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	629.7	683.5	630.6	604.3	
H	WT. OF DRY SOIL & TARE	(grams)	604.1	648.3	581.8	549.1	
I	WT. OF WATER = G - H	(grams)	25.6	35.2	48.8	55.2	
J	WT. DRY SOIL = H - F	(grams)	596.3	640.2	573.8	540.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.3%	5.5%	8.5%	10.2%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

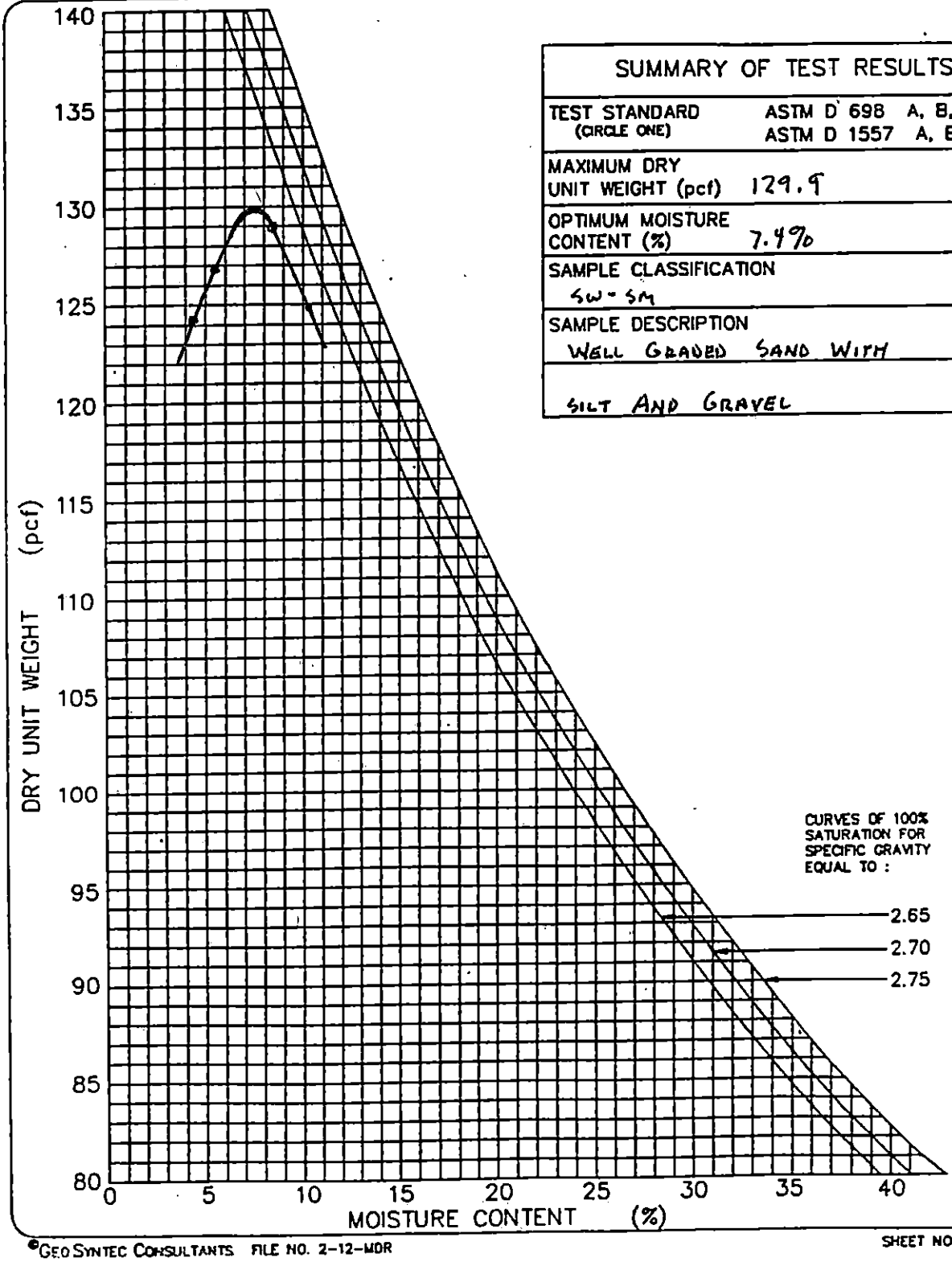
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-124 QA ID: 2/1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.9
OPTIMUM MOISTURE CONTENT (%)	7.4%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-125 QA ID: 2 1R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1551.6	1367.2
WT. OF TARE	(grams)	17.2	15.9
WT. OF DRY SAMPLE	(grams)	1534.4	1351.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	52.9	3.4	96.6	
3/8"	9.5	126.2	8.2	91.8	
4	4.75	303.0	19.7	80.3	
10	2.0	471.6	30.7	69.3	
20	0.850	664.1	43.3	56.7	
40	0.425	964.8	62.9	37.1	
60	0.250	1198.3	78.1	21.9	
100	0.150	1298.5	84.6	15.4	
200	0.075	1350.4	88.0	12.0	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

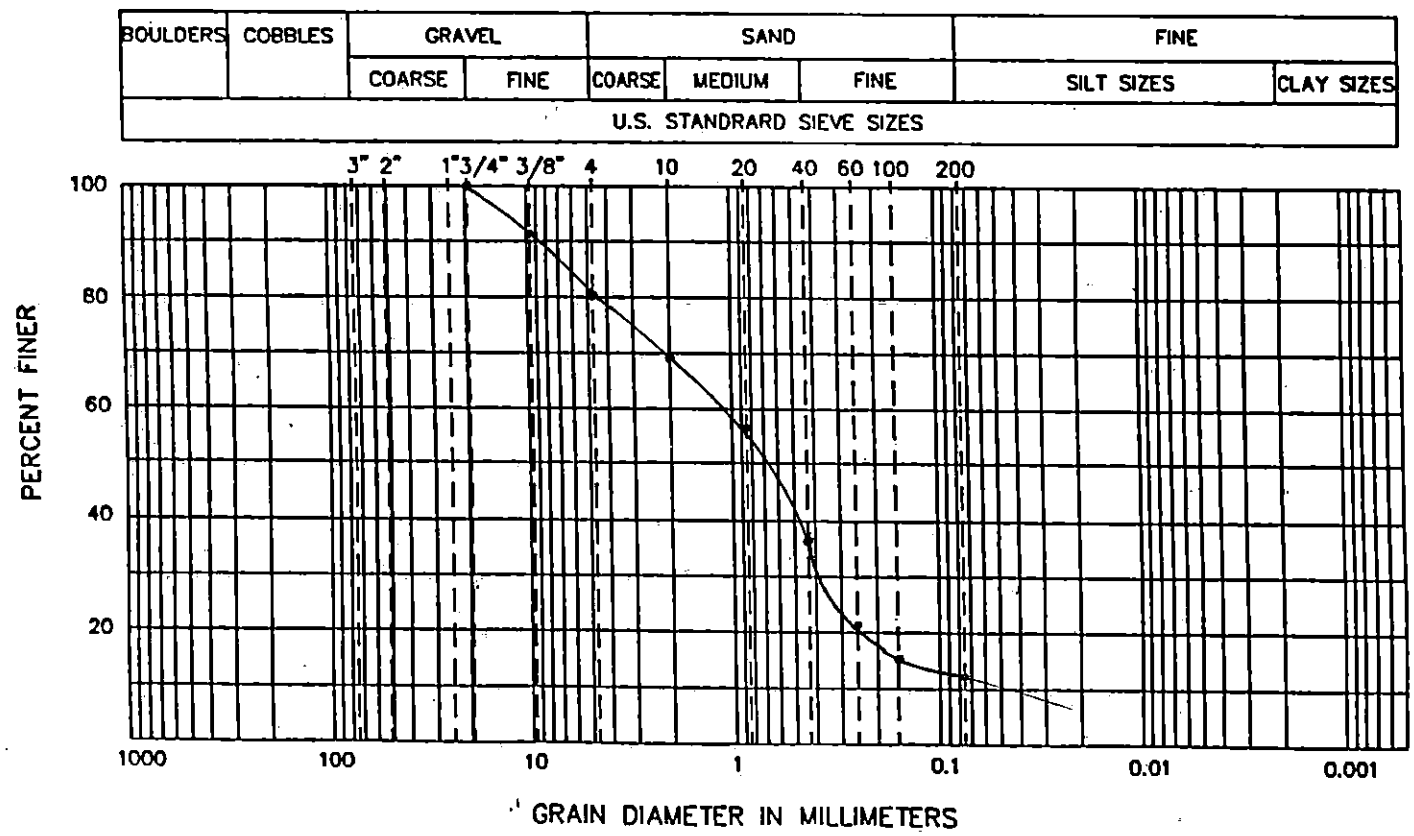
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-125 QA ID: D/R



CURVE COEFFICIENTS

(C_u) 20.8

(C_c) 3.0

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.6
3/8-in.	91.8
NO. 4	80.3
NO. 10	69.3
NO. 20	56.7
NO. 40	37.1
NO. 60	21.9
NO. 100	15.4
NO. 200	12.0

SOIL CLASSIFICATION (ASTM D 2487): SW-SM - WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-125 QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10420	10620	10669	10648	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4575	4775	4824	4803	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.7	138.5	139.9	139.3	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.6	130.4	129.4	127.6	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	658.0	604.1	614.5	502.9	
H	WT. OF DRY SOIL & TARE	(grams)	628.1	569.4	569.3	461.3	
I	WT. OF WATER = G - H	(grams)	29.9	34.7	45.2	41.6	
J	WT. DRY SOIL = H - F	(grams)	620.1	561.3	561.2	453.0	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.8%	6.2%	8.1	9.2%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

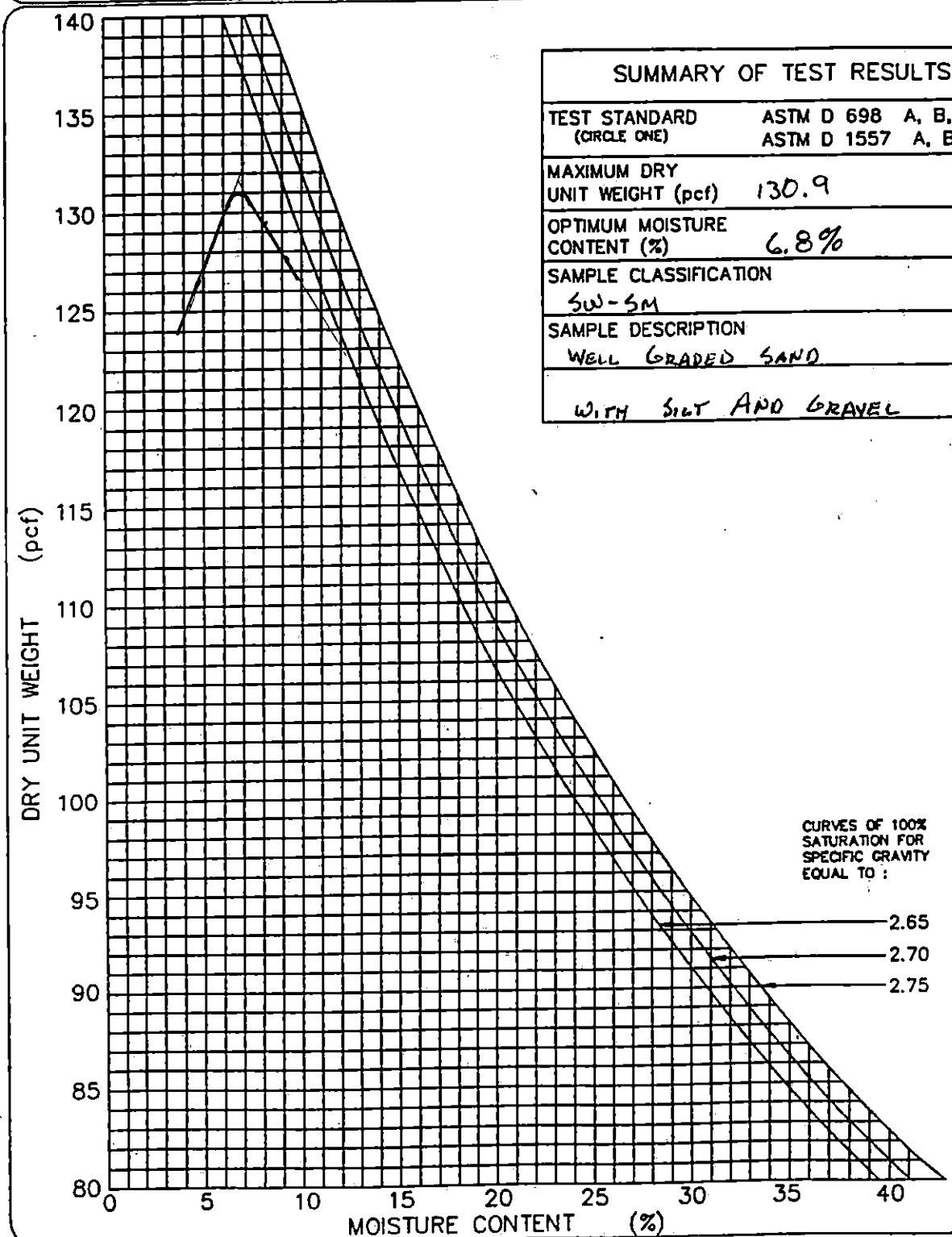
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-125 QA ID: 21R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.9
OPTIMUM MOISTURE CONTENT (%)	6.8%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-126 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1206.0	1084.8
WT. OF TARE	(grams)	13.8	16.0
WT. OF DRY SAMPLE	(grams)	1192.2	1068.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	41.1	3.4	96.6	
3/8"	9.5	84.6	7.1	92.9	
4	4.75	225.0	18.9	81.1	
10	2.0	355.8	29.8	70.2	
20	0.850	516.4	43.3	56.7	
40	0.425	773.9	64.9	35.1	
60	0.250	965.4	81.0	19.0	
100	0.150	1035.6	86.9	13.1	
200	0.075	1067.9	89.6	10.4	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

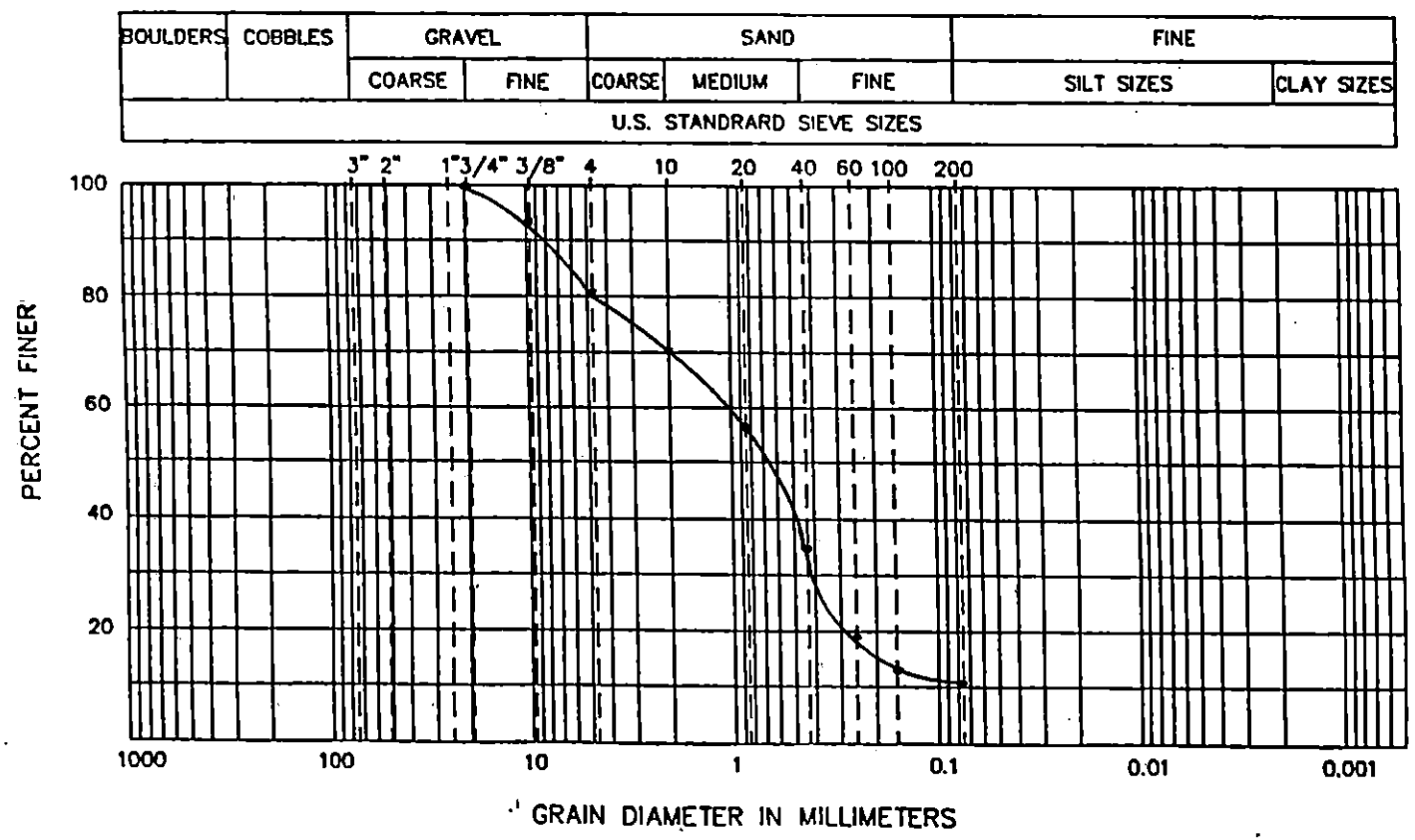
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-126 QA ID: DAR



CURVE COEFFICIENTS

(C_u) 13.3

(C_c) 2.4

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.6
3/8-in.	92.9
NO. 4	81.1
NO. 10	70.2
NO. 20	56.7
NO. 40	35.1
NO. 60	19.0
NO. 100	13.1
NO. 200	10.4

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 18 day 10 month 93 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-126 — QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10329	10632	10640	10560	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4484	4787	4795	4715	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.0	138.8	139.1	136.7	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.7	129.8	127.7	124.0	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	633.6	580.6	553.2	581.5	
H	WT. OF DRY SOIL & TARE	(grams)	603.3	543.7	508.6	528.3	
I	WT. OF WATER = G - H	(grams)	30.3	36.9	44.6	53.2	
J	WT. DRY SOIL = H - F	(grams)	595.3	535.6	500.6	520.0	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.1%	6.9%	8.9%	10.2%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

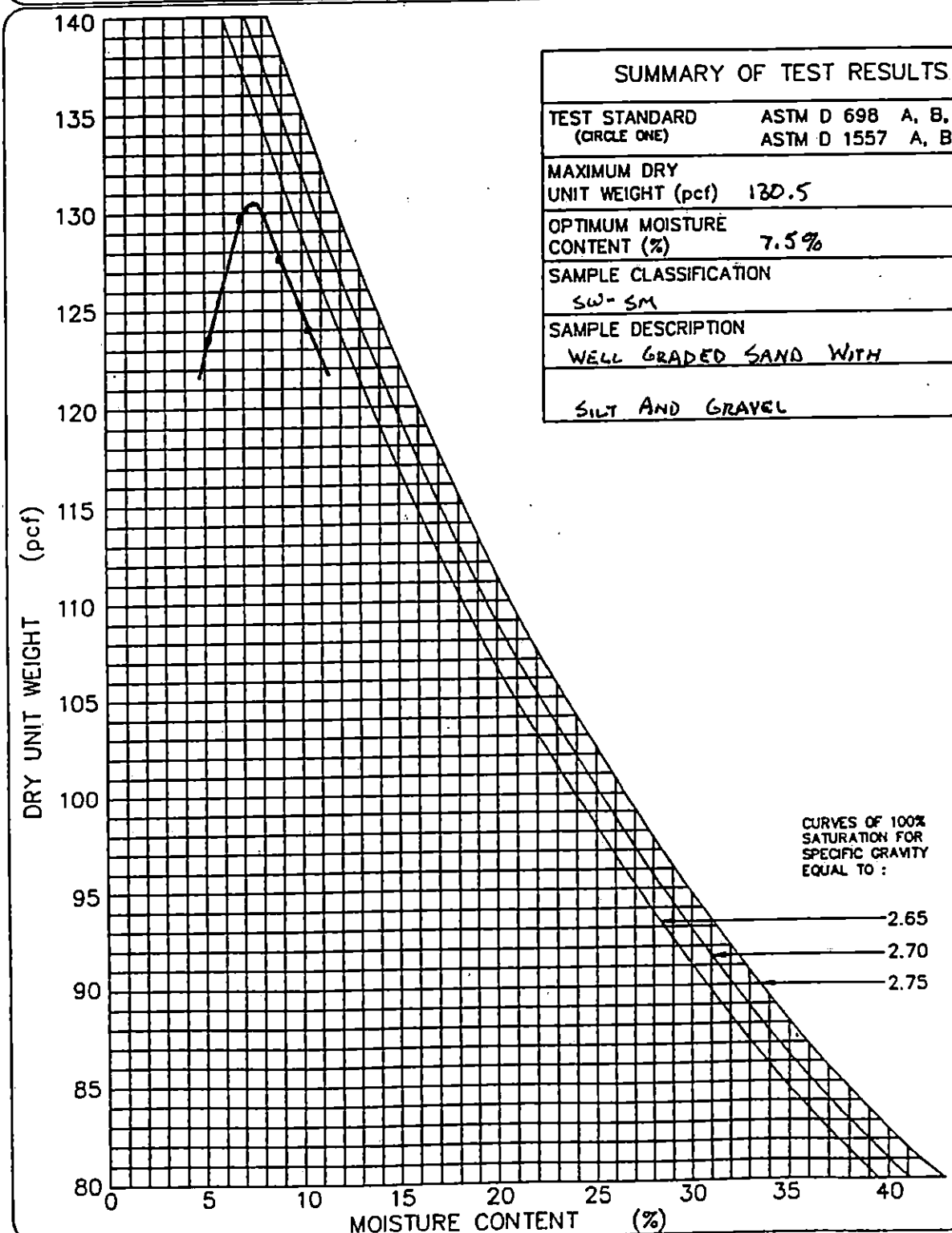
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 10 month 93 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-126 QA ID: DMR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.5
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-127 QA ID: >/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1884.5	1647.9
WT. OF TARE	(grams)	18.2	16.0
WT. OF DRY SAMPLE	(grams)	1866.3	1631.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	52.3	2.8	97.2	
3/8	9.5	181.0	9.7	90.3	
4	4.75	296.7	15.9	84.1	
10	2.0	554.3	29.7	70.3	
20	0.850	744.7	39.9	60.1	
40	0.425	1153.4	61.8	38.2	
60	0.250	1519.2	81.4	18.6	
100	0.150	1582.6	84.8	15.2	
200	0.075	1631.1	87.4	12.6	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

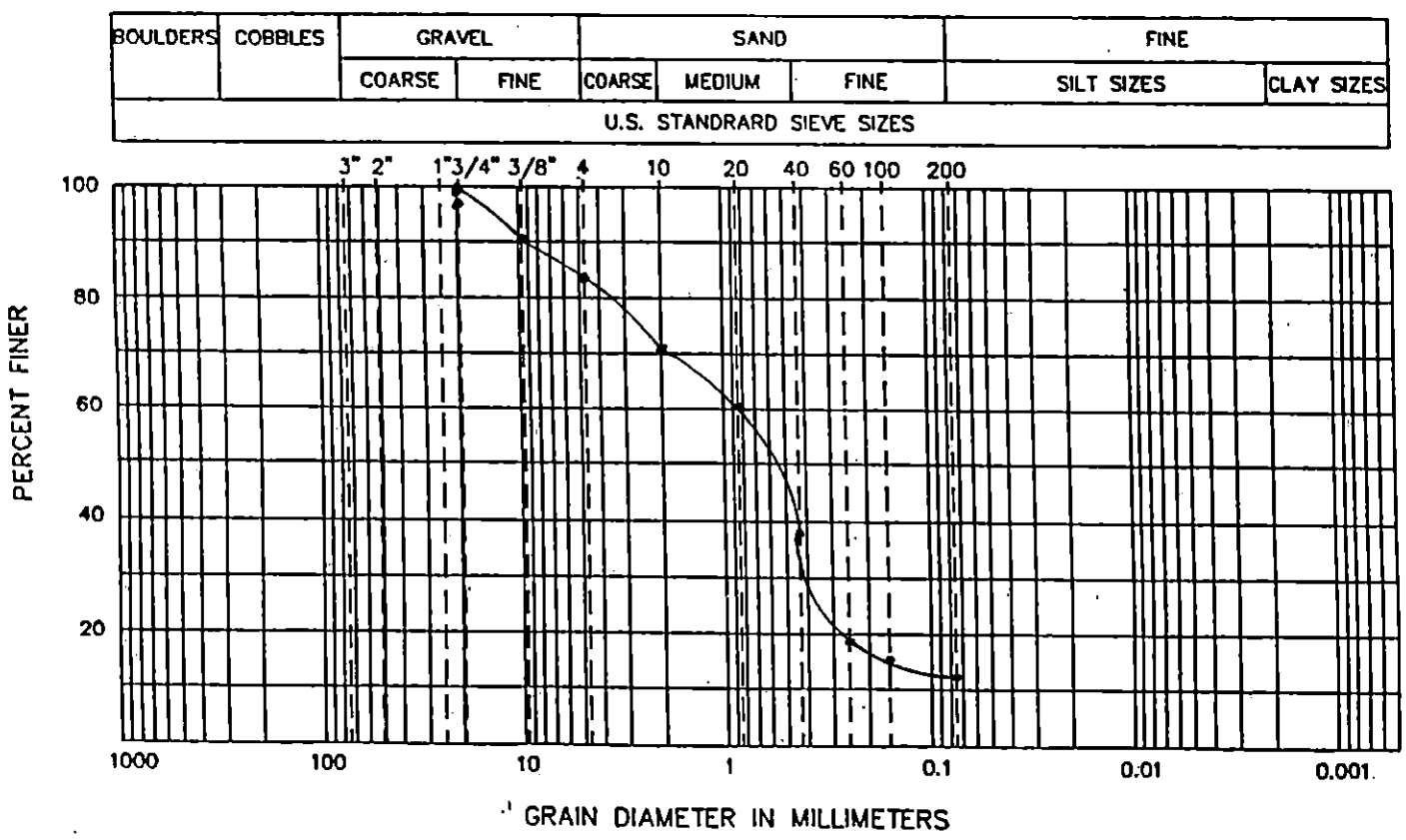
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 20 day 10 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-127 — QA ID: 318



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	100.0
3/4-in.	100.0
1/2-in.	97.2
3/8-in.	90.3
NO. 4	84.1
NO. 10	70.3
NO. 20	60.1
NO. 40	38.2
NO. 60	18.6
NO. 100	15.2
NO. 200	12.6

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-127 QA ID: JMT

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10286	10528	10611	10586	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4441	4683	4766	4741	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.8	135.8	138.2	137.5	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.8	128.0	127.5	125.3	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	535.8	585.1	579.7	597.6	
H	WT. OF DRY SOIL & TARE	(grams)	515.5	551.9	535.4	546.0	
I	WT. OF WATER = G - H	(grams)	20.3	33.2	44.3	51.6	
J	WT. DRY SOIL = H - F	(grams)	507.6	543.9	527.4	537.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.0%	6.1%	8.4%	9.6%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

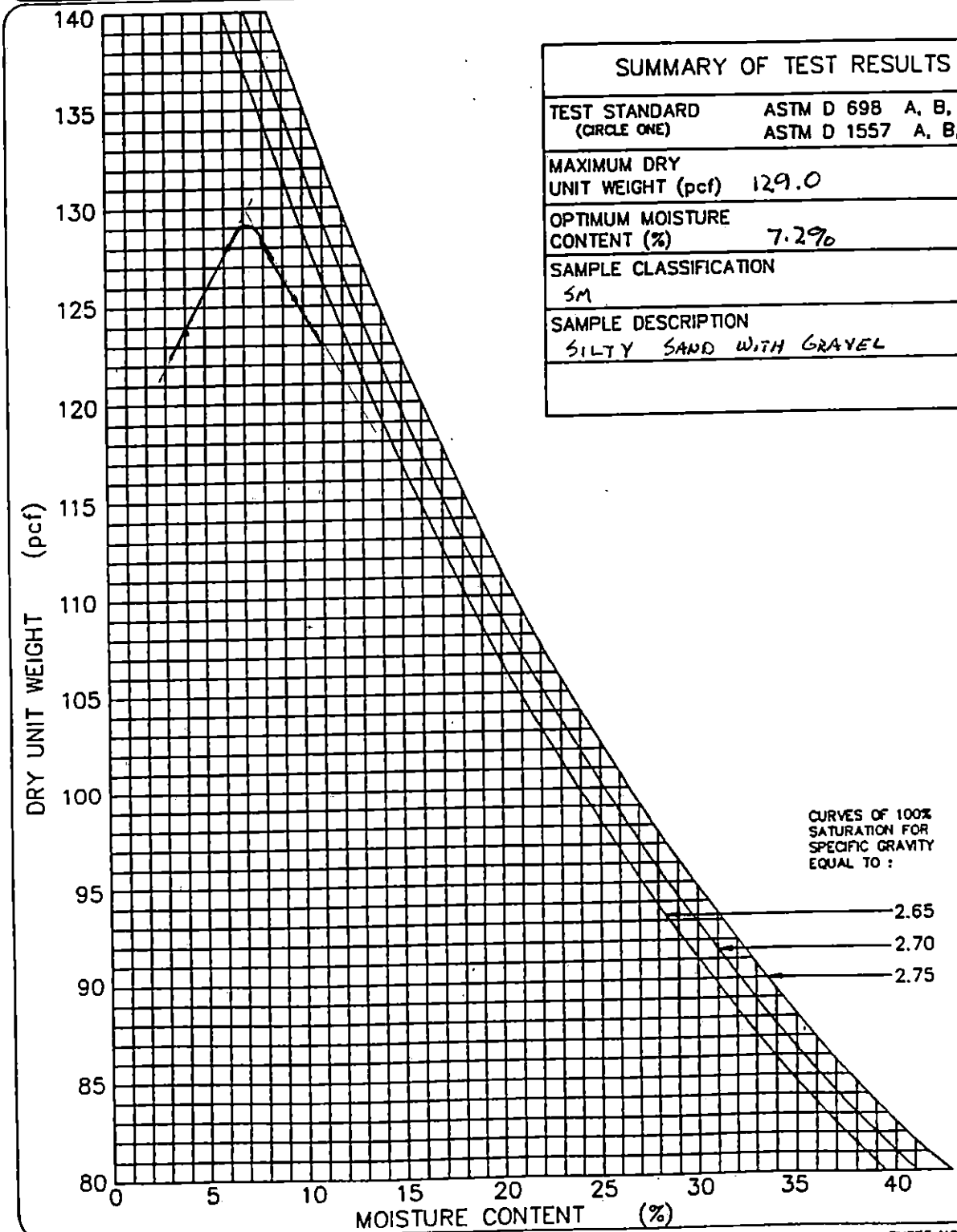
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-127 QA ID: DJR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.0
OPTIMUM MOISTURE CONTENT (%)	7.2%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 10 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-128 QA ID: 7/17

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1781.6	1620.3
WT. OF TARE	(grams)	17.3	16.0
WT. OF DRY SAMPLE	(grams)	1764.3	1604.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	82.9	4.7	95.3	
3/8"	9.5	174.7	9.9	90.1	
4	4.75	442.8	25.1	74.9	
10	2.0	654.6	37.1	62.9	
20	0.850	898.0	50.9	49.1	
40	0.425	1273.8	72.2	27.8	
60	0.250	1478.5	83.8	15.2	
100	0.150	1577.3	89.4	10.6	
200	0.075	1603.7	90.9	9.1	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

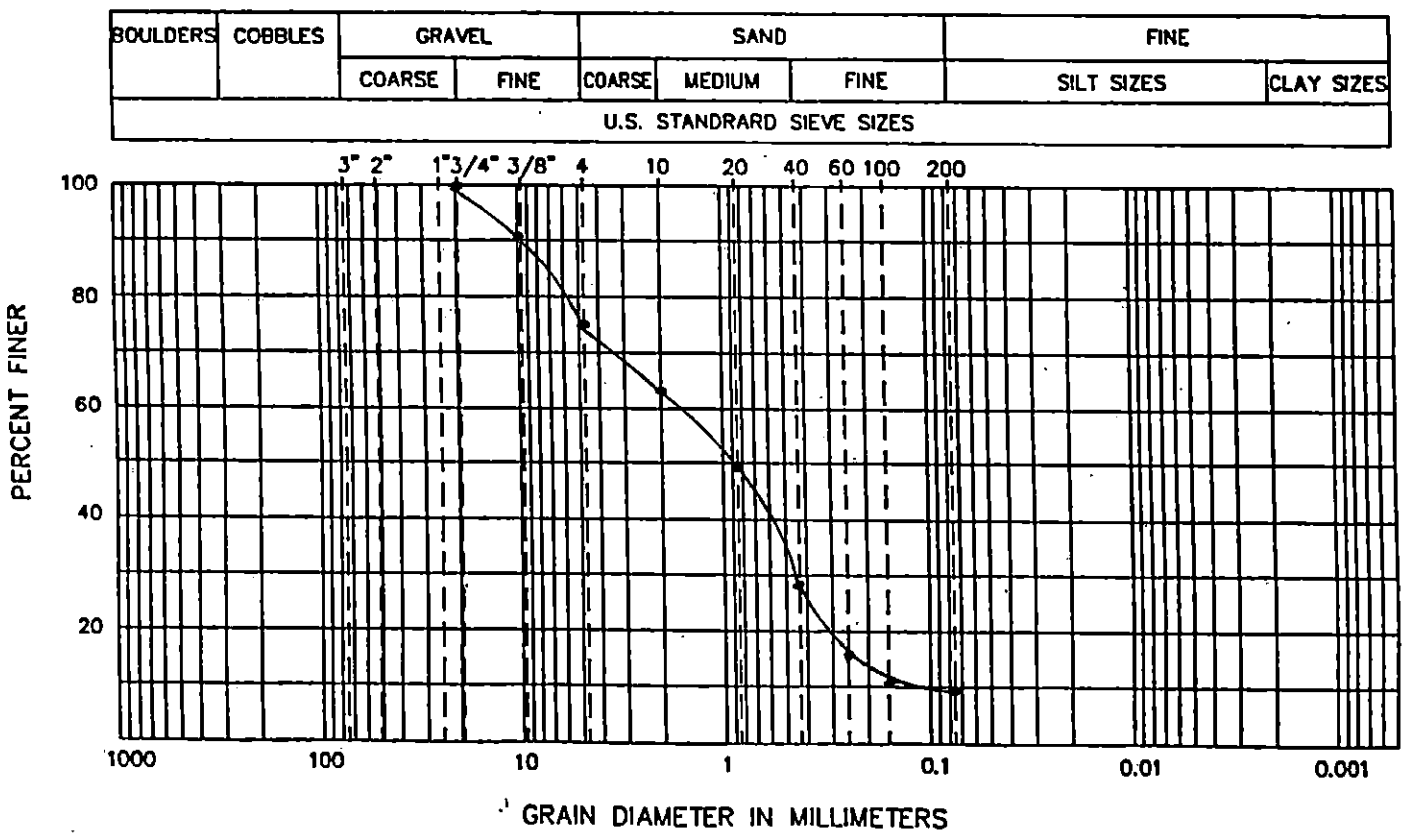
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-128 QA ID: JAR



CURVE COEFFICIENTS

(C_u) 15.0

(C_c) 1.35

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	100.0
3/4-in.	100.0
1/2-in.	96.3
3/8-in.	90.1
NO. 4	74.9
NO. 10	62.9
NO. 20	49.1
NO. 40	27.8
NO. 60	15.2
NO. 100	10.6
NO. 200	9.1

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 23 day 10 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-128 — QA ID: DAP

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10348	10586	10648	10642	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4503	4741	4803	4797	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.6	137.5	139.3	139.1	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.3	129.8	128.6	127.0	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	536.8	528.3	536.2	526.5	
H	WT. OF DRY SOIL & TARE	(grams)	515.5	499.3	495.7	481.5	
I	WT. OF WATER = G - H	(grams)	21.3	29.0	40.5	45.0	
J	WT. DRY SOIL = H - F	(grams)	507.6	491.3	487.6	473.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.2%	5.9%	8.3%	9.5%	

GeoSyntec Consultants

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

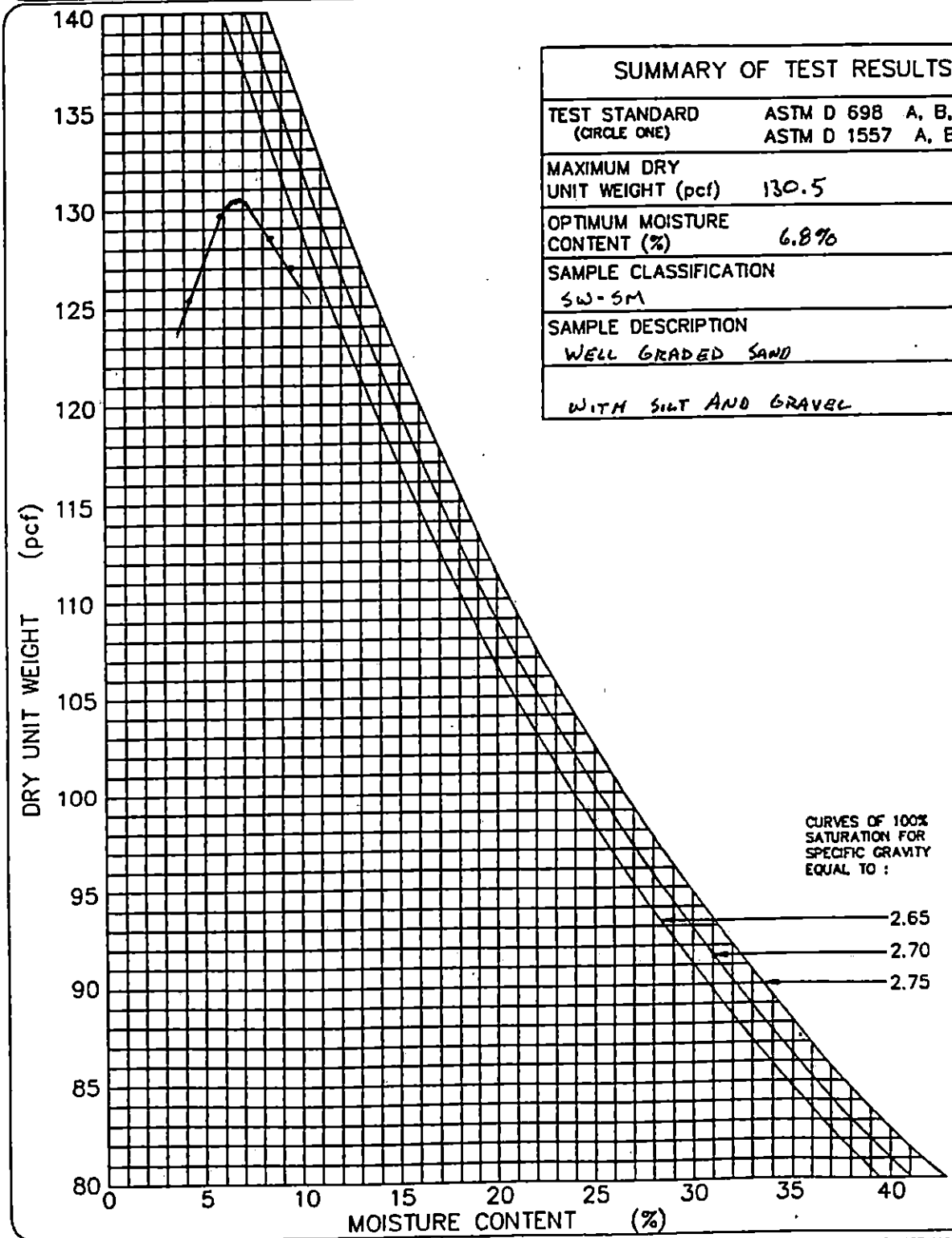
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-128 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.5
OPTIMUM MOISTURE CONTENT (%)	6.8%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-129 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1857.2	1668.5
WT. OF TARE	(grams)	17.8	16.0
WT. OF DRY SAMPLE	(grams)	1839.4	1652.5

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	104.8	5.7	94.3	
3/8"	9.5	165.5	9.0	91.0	
4	4.75	325.6	17.7	82.3	
10	2.0	553.7	30.1	69.9	
20	0.850	741.3	40.3	59.7	
40	0.425	1197.4	65.1	34.9	
60	0.250	1491.8	81.1	18.9	
100	0.150	1578.2	85.8	14.2	
200	0.075	1651.8	89.8	10.2	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

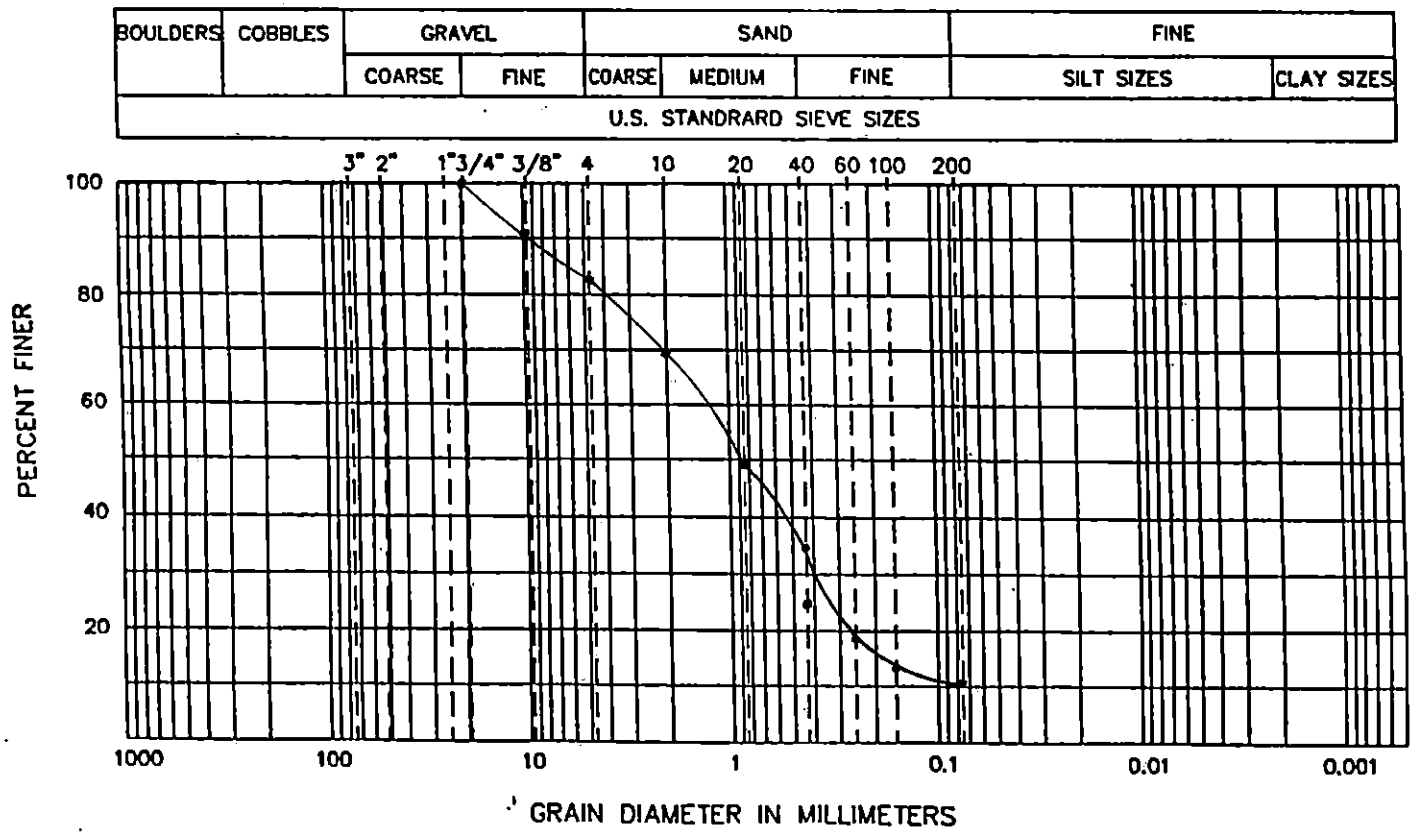
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 25 day 10 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-129 — QA ID: 21R



CURVE COEFFICIENTS

(C_u) 17.1

(C_c) 1.9

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.3
3/8-in.	91.0
NO. 4	82.3
NO. 10	69.9
NO. 20	59.7
NO. 40	34.9
NO. 60	18.9
NO. 100	14.2
NO. 200	10.2

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-129 QA ID: D1R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10438	10531	10638	10590	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4593	4686	4793	4745	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.2	135.9	139.0	137.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.8	127.8	127.5	125.2	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	640.8	617.2	629.1	603.1	
H	WT. OF DRY SOIL & TARE	(grams)	605.5	581.1	577.8	549.5	
I	WT. OF WATER = G - H	(grams)	35.3	36.1	51.3	53.6	
J	WT. DRY SOIL = H - F	(grams)	597.6	573.1	569.8	541.3	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.9%	6.3%	9.0%	9.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

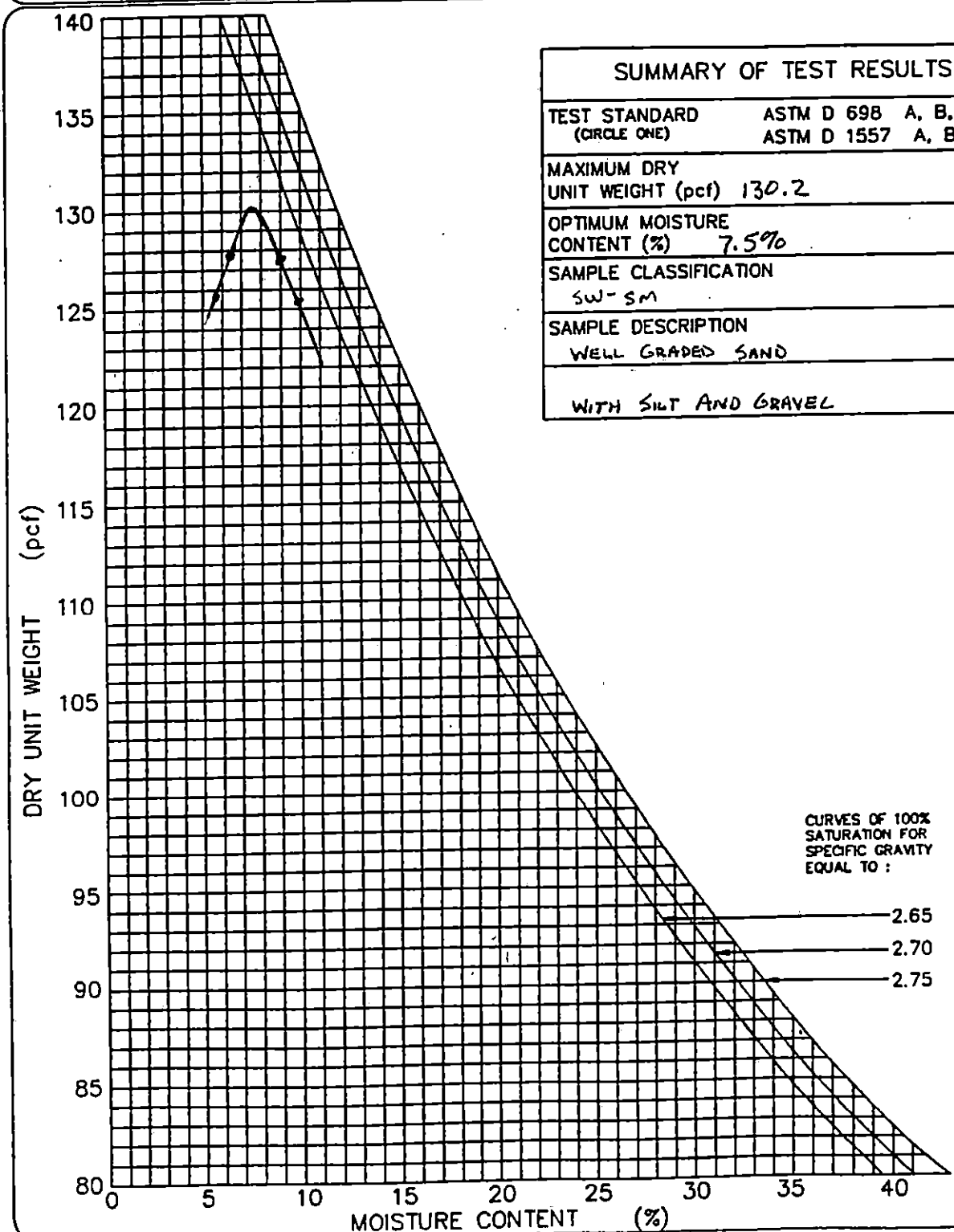
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-179 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.2
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-130 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1795.7	1600.3
WT. OF TARE	(grams)	19.3	17.0
WT. OF DRY SAMPLE	(grams)	1776.4	1583.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	65.7	3.7	96.3	
3/8"	9.5	158.1	8.9	91.1	
4	4.75	385.5	21.7	78.3	
10	2.0	692.8	39.0	61.0	
20	0.850	831.4	46.8	53.2	
40	0.425	1188.4	66.9	33.1	
60	0.250	1444.2	81.3	18.7	
100	0.150	1525.9	85.9	14.1	
200	0.075	1582.8	89.1	10.9	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

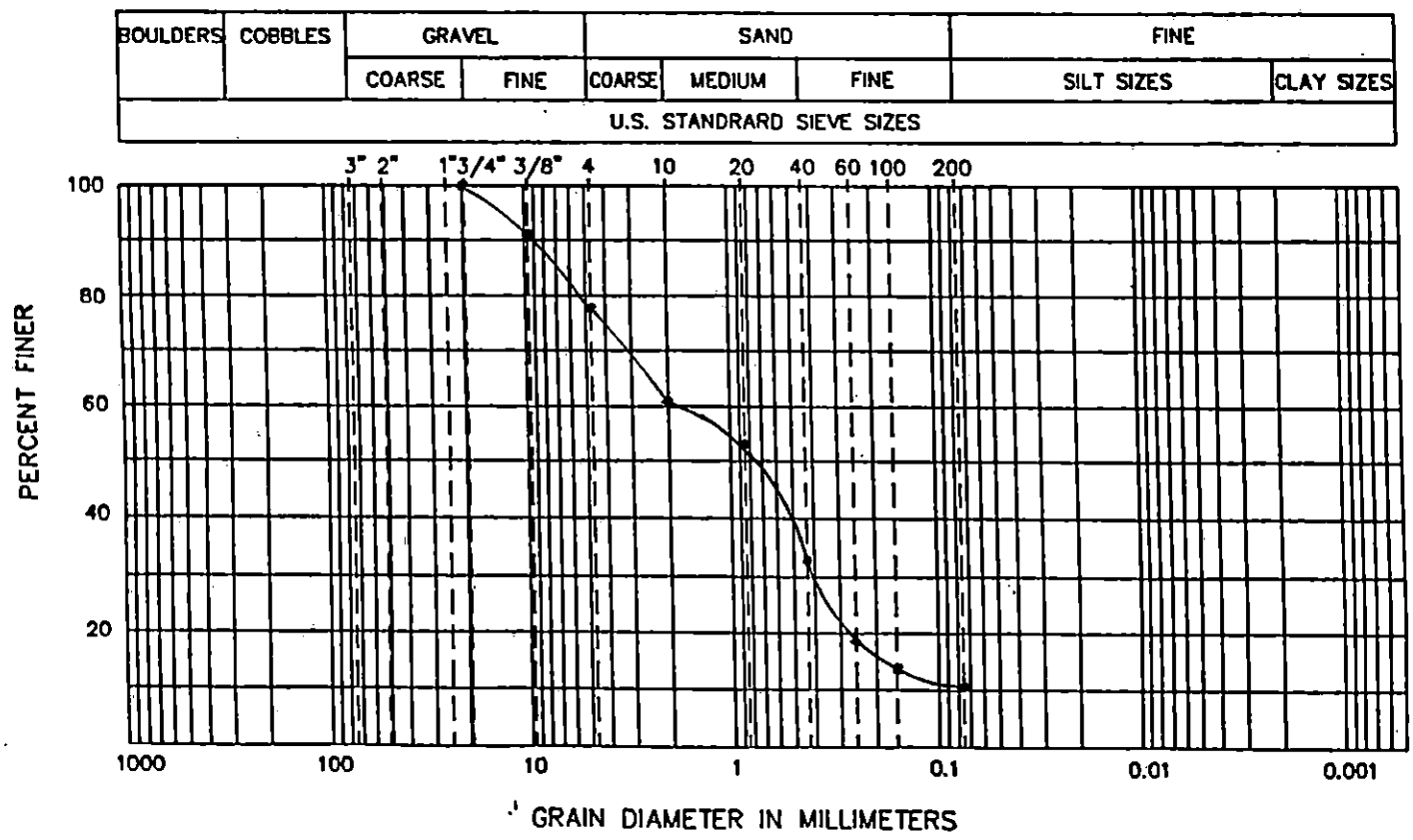
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-130 QA ID: 2nd



CURVE COEFFICIENTS

(C_u) 22.9

(C_c) 1.4

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.3
3/8-in.	91.1
NO. 4	78.3
NO. 10	61.0
NO. 20	53.2
NO. 40	33.1
NO. 60	18.7
NO. 100	14.1
NO. 200	10.9

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 27 day 10 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-130 — QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10373	10579	10659	10597	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4528	4734	4814	4752	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.3	137.3	139.6	137.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.3	128.9	128.3	125.2	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.0	8.1	
G	WT. OF WET SOIL & TARE	(grams)	688.5	640.2	672.1	646.3	
H	WT. OF DRY SOIL & TARE	(grams)	657.3	601.6	618.4	587.8	
I	WT. OF WATER = G - H	(grams)	31.2	38.6	53.7	58.5	
J	WT. DRY SOIL = H - F	(grams)	649.3	593.6	610.4	579.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.8%	6.5%	8.8%	10.1 %	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

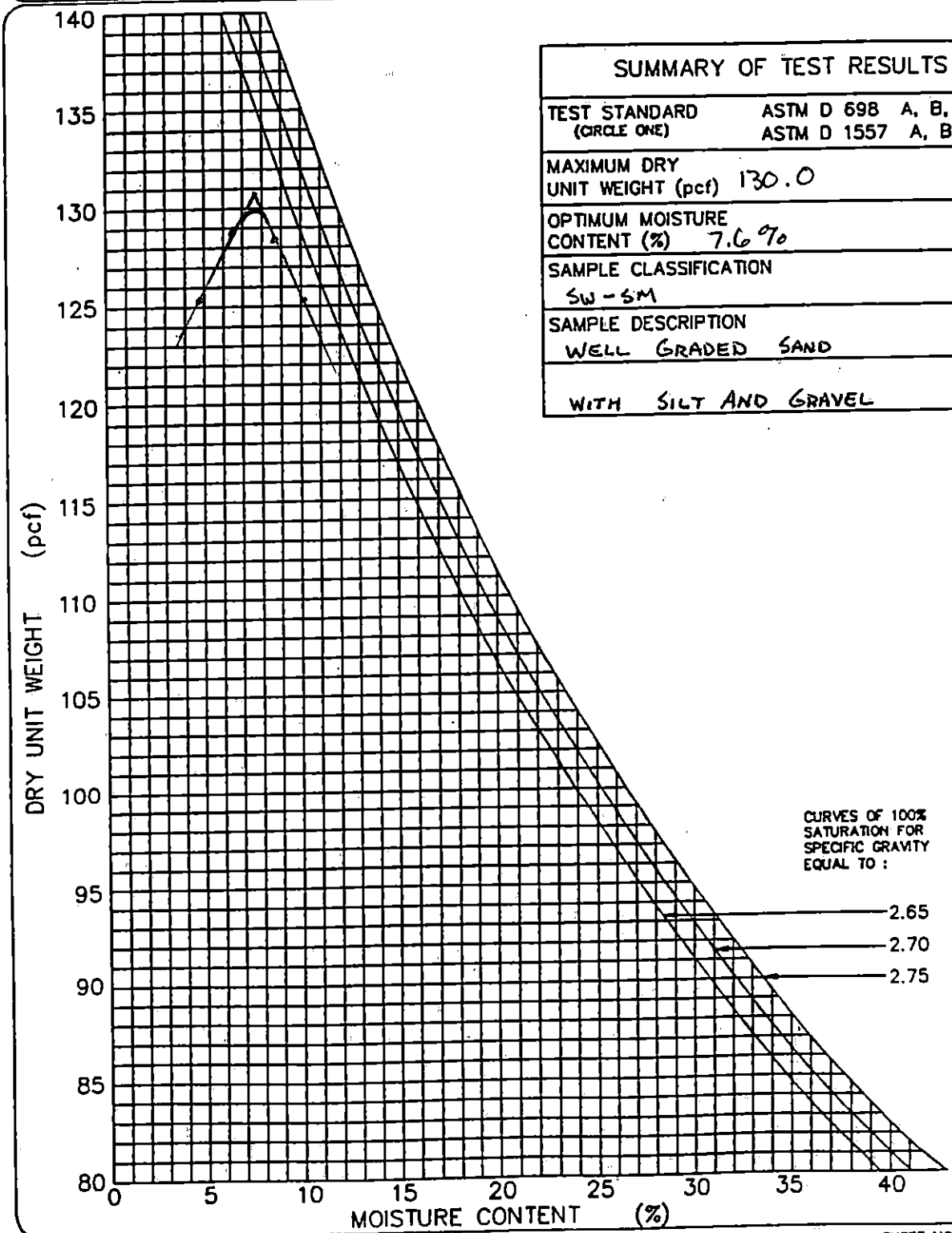
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-130 QA ID: 2/R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.0
OPTIMUM MOISTURE CONTENT (%)	7.6 %
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: AGG. SELECT SAMPLE NO.: S-131 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1914.9	1739.3
WT. OF TARE	(grams)	17.3	15.9
WT. OF DRY SAMPLE	(grams)	1897.6	1723.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	6.0	100.0	
1/2"	12.5	94.5	5.0	95.0	
3/8	9.5	192.1	10.1	89.9	
4	4.75	471.1	24.8	75.2	
10	2.0	697.5	36.8	63.2	
20	0.850	963.6	50.8	49.2	
40	0.425	1382.3	72.8	27.2	
60	0.250	1612.9	85.0	15.0	
100	0.150	1692.9	89.2	10.8	
200	0.075	1722.1	90.8	9.2	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

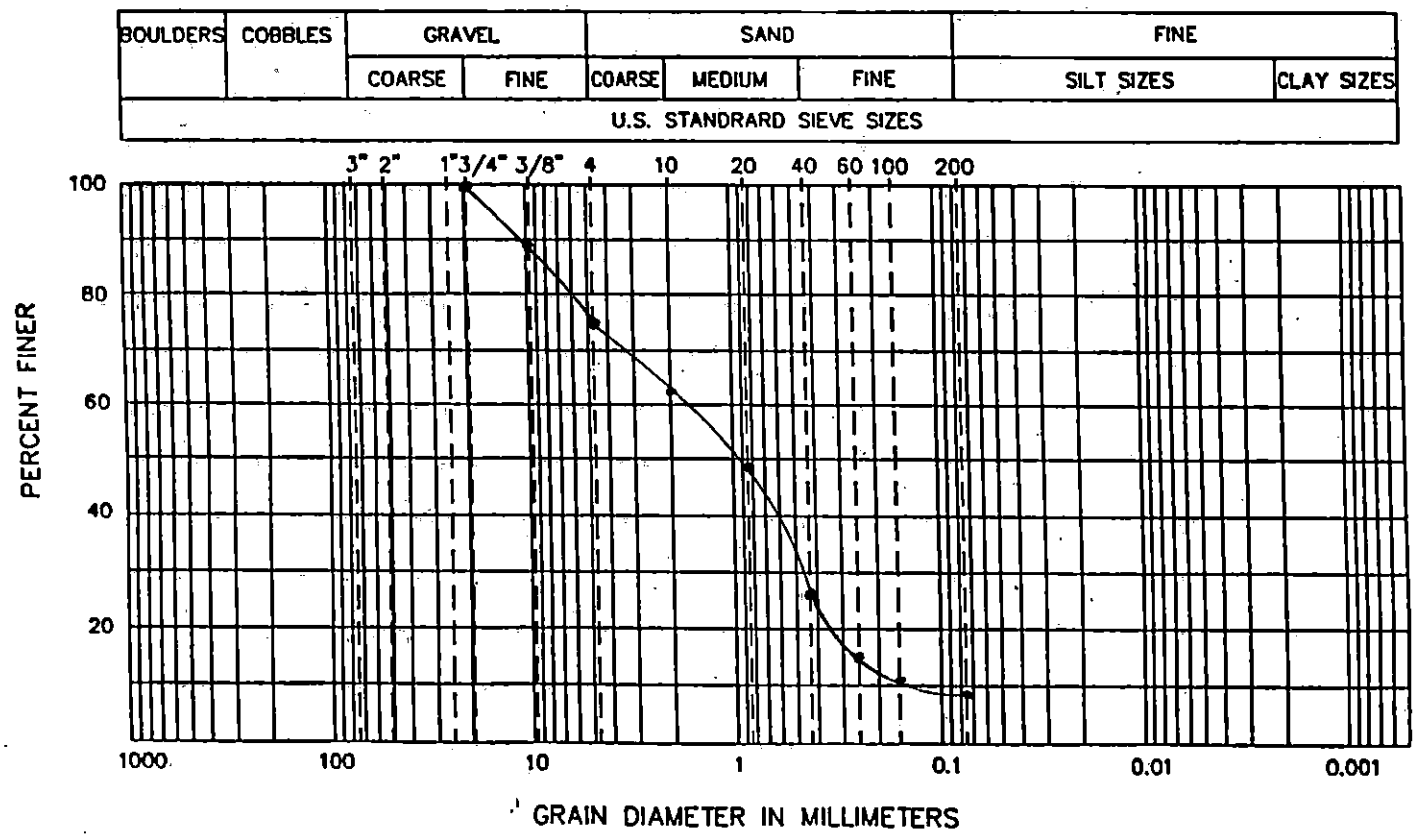
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-131 QA ID: DJR



CURVE COEFFICIENTS

(C_u) 10.7

(C_c) 1.0

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.0
3/8-in.	89.9
NO. 4	75.2
NO. 10	63.2
NO. 20	49.2
NO. 40	27.2
NO. 60	15.0
NO. 100	10.8
NO. 200	9.2

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT & GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 30 day 10 month 95 year

SOURCE: B. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-131 — QA ID: P/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10255	10539	10640	10599	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4410	4694	4795	4754	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.9	136.1	139.1	137.9	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.0	127.7	128.9	125.7	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.2	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	621.3	600.5	547.1	681.0	
H	WT. OF DRY SOIL & TARE	(grams)	597.7	563.6	507.5	621.4	
I	WT. OF WATER = G - H	(grams)	23.6	36.9	39.6	59.6	
J	WT. DRY SOIL = H - F	(grams)	589.8	555.4	499.4	613.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.0%	6.6%	7.9%	9.7%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

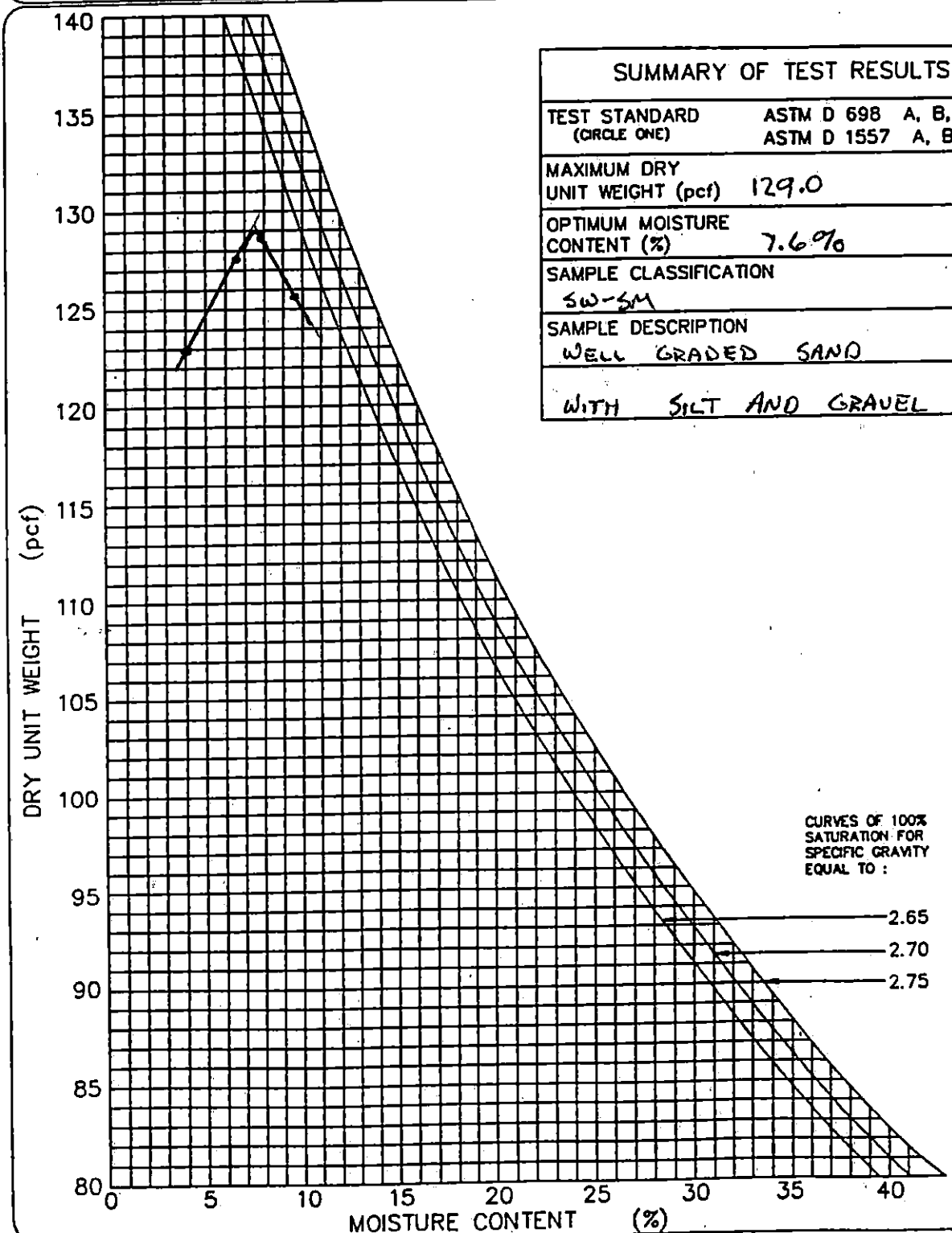
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-131 QA ID: D/R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.0
OPTIMUM MOISTURE CONTENT (%)	7.6%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 31 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-132 QA ID: D/P

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	2084.1	1845.4
WT. OF TARE	(grams)	17.9	16.0
WT. OF DRY SAMPLE	(grams)	2066.2	1829.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	78.3	3.8	96.2	
3/8"	9.5	168.7	8.2	91.8	
4	4.75	360.2	17.4	82.6	
10	2.0	569.1	27.5	72.5	
20	0.850	838.6	40.6	59.4	
40	0.425	1319.3	63.9	36.1	
60	0.250	1658.7	80.3	19.7	
100	0.150	1776.4	86.0	14.0	
200	0.075	1828.0	88.5	11.5	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS

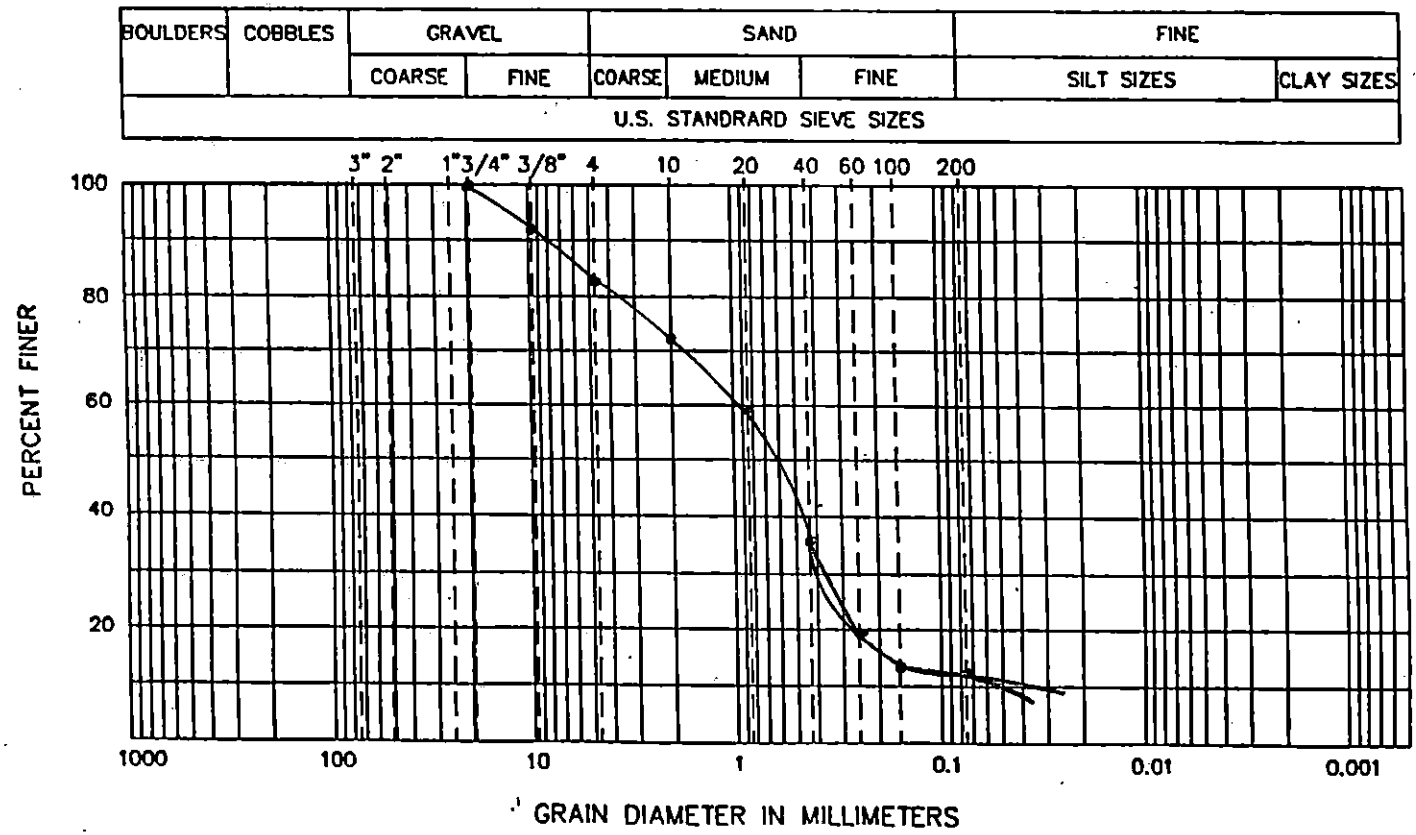
(ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 31 day 10 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-132 — QA ID: DJR



CURVE COEFFICIENTS

(C_u) 20.0

(C_c) 2.6

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.2
3/8-in.	91.8
NO. 4	82.6
NO. 10	72.5
NO. 20	59.4
NO. 40	36.1
NO. 60	19.7
NO. 100	14.0
NO. 200	11.5

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 31 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-132 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20%
AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED,
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10160	10491	10630	10609	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4315	4646	4785	4764	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	125.1	134.7	138.8	138.2	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	120.5	126.7	127.8	125.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	632.5	607.4	600.2	684.4	
H	WT. OF DRY SOIL & TARE	(grams)	609.8	572.1	553.1	624.1	
I	WT. OF WATER = G - H	(grams)	22.7	35.3	47.1	60.3	
J	WT. DRY SOIL = H - F	(grams)	601.9	564.1	545.0	615.8	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.8%	6.3%	8.6%	9.8%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

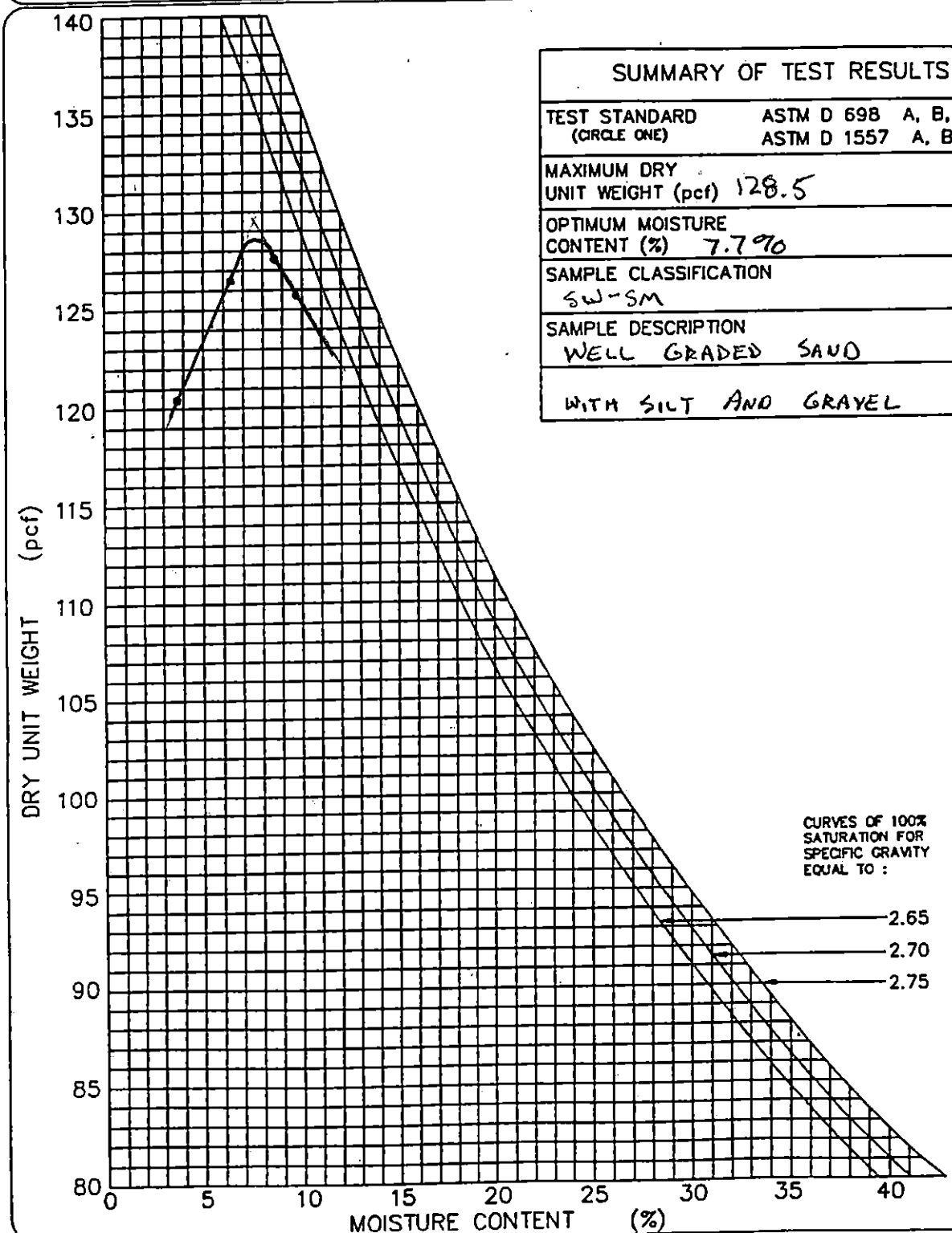
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 31 day 10 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-132 QA ID: D/R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.5
OPTIMUM MOISTURE CONTENT (%)	7.7%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-133 QA ID: P1R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1779.2	1625.0
WT. OF TARE	(grams)	16.0	19.3
WT. OF DRY SAMPLE	(grams)	1763.2	1605.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	84.6	4.8	95.2	
3/8"	9.5	199.3	11.3	88.7	
4	4.75	453.2	25.7	74.3	
10	2.0	633.1	35.9	64.1	
20	0.850	879.9	49.9	50.1	
40	0.425	1290.9	73.2	26.8	
60	0.250	1479.6	83.9	16.1	
100	0.150	1583.6	89.8	10.2	
200	0.075	1604.8	91.0	9.0	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

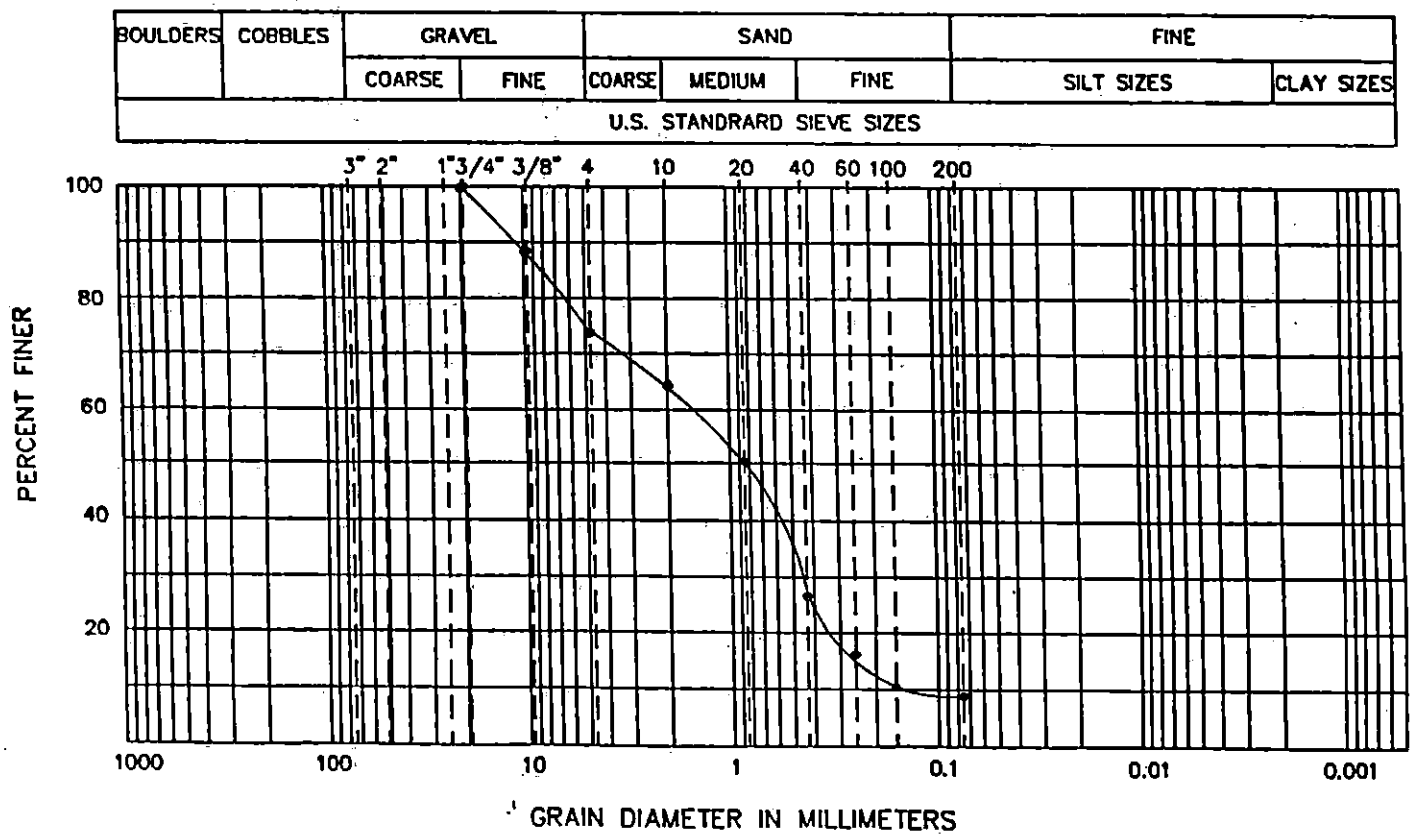
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 01 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-133 QA ID: DJR



CURVE COEFFICIENTS

(C_u) 8.7

(C_c) 1.0

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.2
3/8-in.	88.7
NO. 4	74.3
NO. 10	64.1
NO. 20	50.1
NO. 40	26.8
NO. 60	16.1
NO. 100	10.2
NO. 200	9.0

SOIL CLASSIFICATION (ASTM D 2487): SW-SM' WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-133 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10424	10628	10669	10638	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4579	4783	4824	4793	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	132.8	138.7	139.9	139.0	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.7	130.5	129.4	127.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.0	7.1	7.0	7.2	
G	WT. OF WET SOIL & TARE	(grams)	622.8	616.4	653.8	600.9	
H	WT. OF DRY SOIL & TARE	(grams)	594.6	580.3	605.4	549.9	
I	WT. OF WATER = G - H	(grams)	28.2	36.1	48.4	51.0	
J	WT. DRY SOIL = H - F	(grams)	587.6	573.2	598.4	542.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.8%	6.3%	8.1%	9.4%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

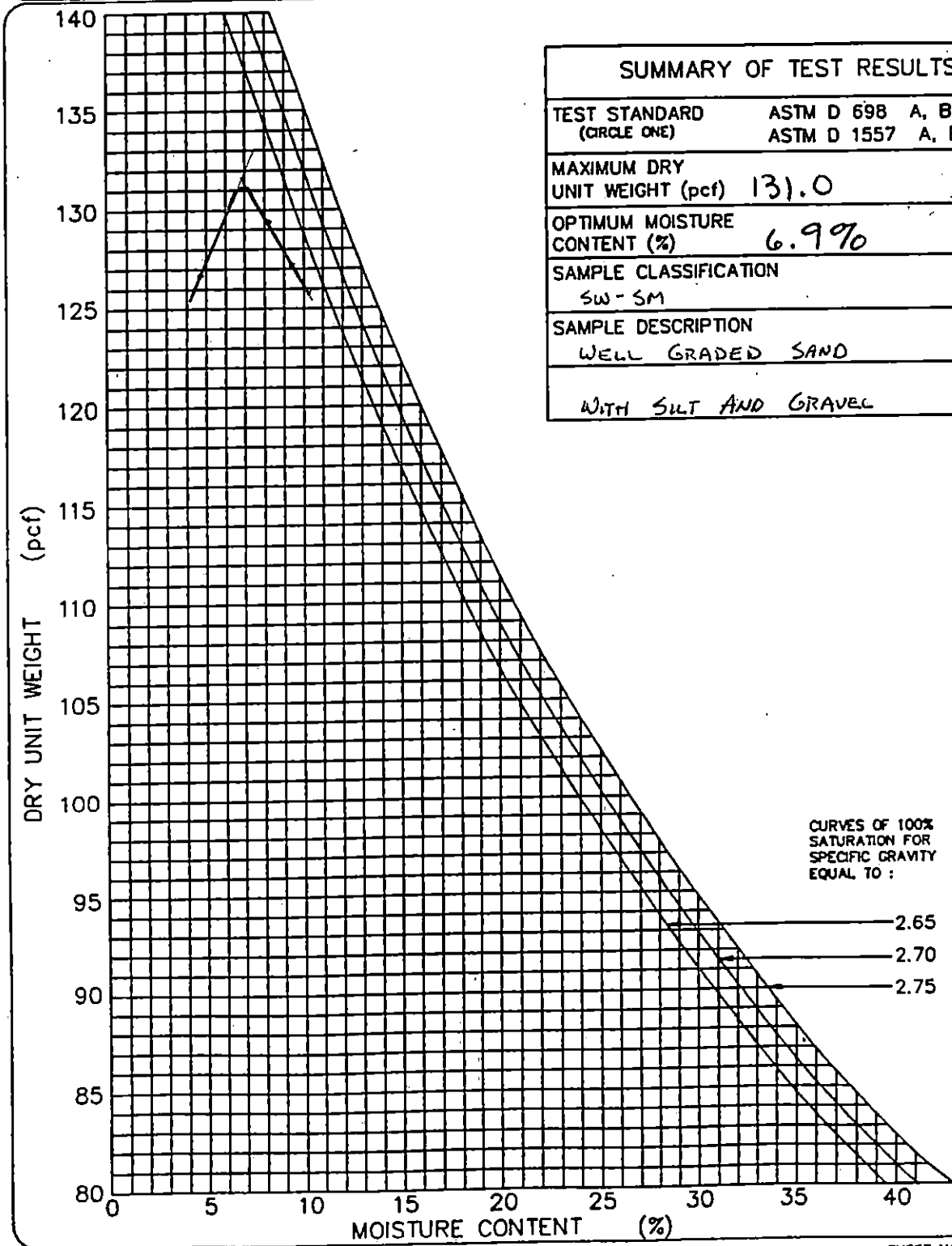
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-133 QA ID: D/R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	131.0
OPTIMUM MOISTURE CONTENT (%)	6.9%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 02 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-134 QA ID: P/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1559.9	1367.0
WT. OF TARE	(grams)	16.1	17.9
WT. OF DRY SAMPLE	(grams)	1543.8	1349.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	88.0	5.7	94.3	
3/8"	9.5	174.4	11.3	88.7	
4	4.75	318.0	20.6	79.4	
10	2.0	501.7	32.5	67.5	
20	0.850	714.8	46.3	53.7	
40	0.425	1062.1	68.8	31.2	
60	0.250	1248.9	80.9	19.1	
100	0.150	1324.6	85.8	14.2	
200	0.075	1347.7	87.3	12.7	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

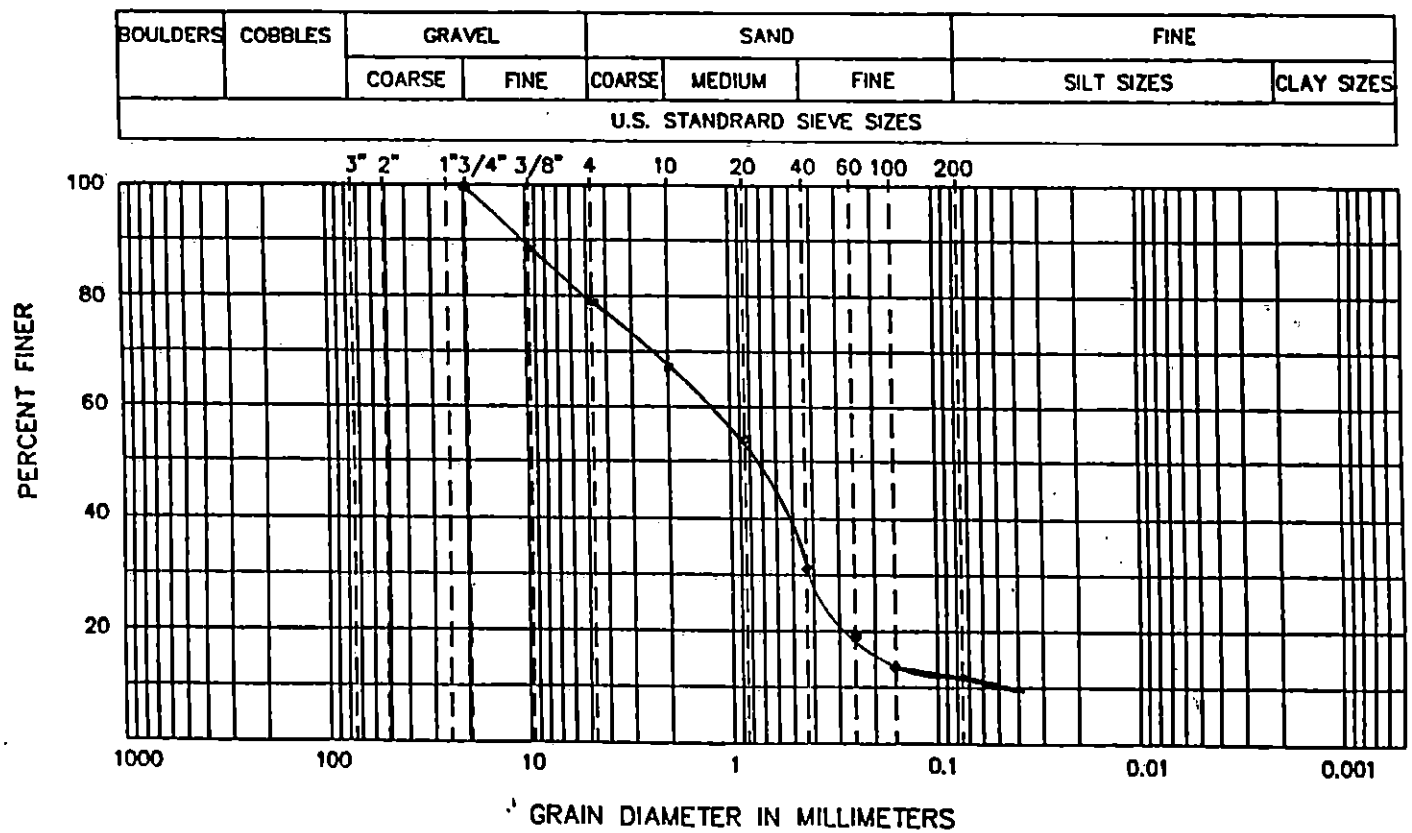
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 02 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-134 QA ID: 21R



CURVE COEFFICIENTS

(C_u) [redacted]

(C_c) [redacted]

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.3
3/8-in.	88.7
NO. 4	79.4
NO. 10	67.5
NO. 20	53.7
NO. 40	31.2
NO. 60	19.1
NO. 100	14.2
NO. 200	12.7

SOIL CLASSIFICATION (ASTM D 2487): SM SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 02 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-134 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10366	10559	10614	10583	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A − B	(grams)	4521	4714	4769	4738	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.1	136.7	138.3	137.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.2	128.5	127.2	125.6	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT − ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	6.9	7.1	7.0	7.3	
G	WT. OF WET SOIL & TARE	(grams)	632.6	648.9	682.7	682.7	
H	WT. OF DRY SOIL & TARE	(grams)	604.5	610.3	628.6	624.7	
I	WT. OF WATER = G − H	(grams)	28.1	38.6	54.1	58.0	
J	WT. DRY SOIL = H − F	(grams)	597.6	603.2	621.6	617.4	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.7%	6.4%	8.7%	9.4%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

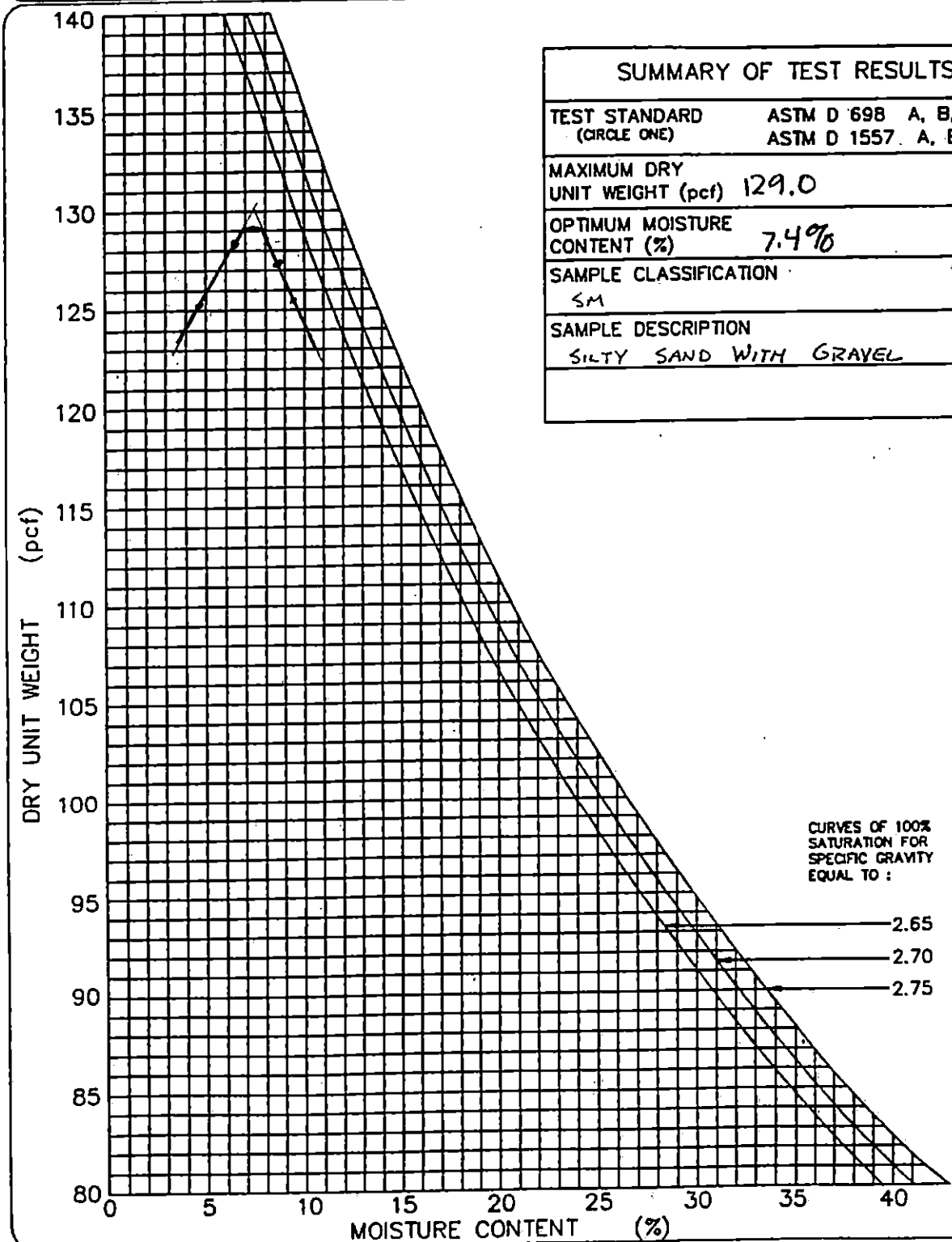
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 02 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-134 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.0
OPTIMUM MOISTURE CONTENT (%)	7.4%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 03 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-135 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1659.0	1503.2
WT. OF TARE	(grams)	15.9	17.8
WT. OF DRY SAMPLE	(grams)	1643.1	1485.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	46.0	2.8	97.2	
3/8"	9.5	159.4	9.7	90.3	
4	4.75	259.6	15.8	84.2	
10	2.0	488.0	29.7	70.3	
20	0.850	818.3	49.8	50.2	
40	0.425	1123.9	68.4	31.6	
60	0.250	1352.3	82.3	17.7	
100	0.150	1449.2	88.2	11.2	
200	0.075	1483.7	90.3	9.7	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

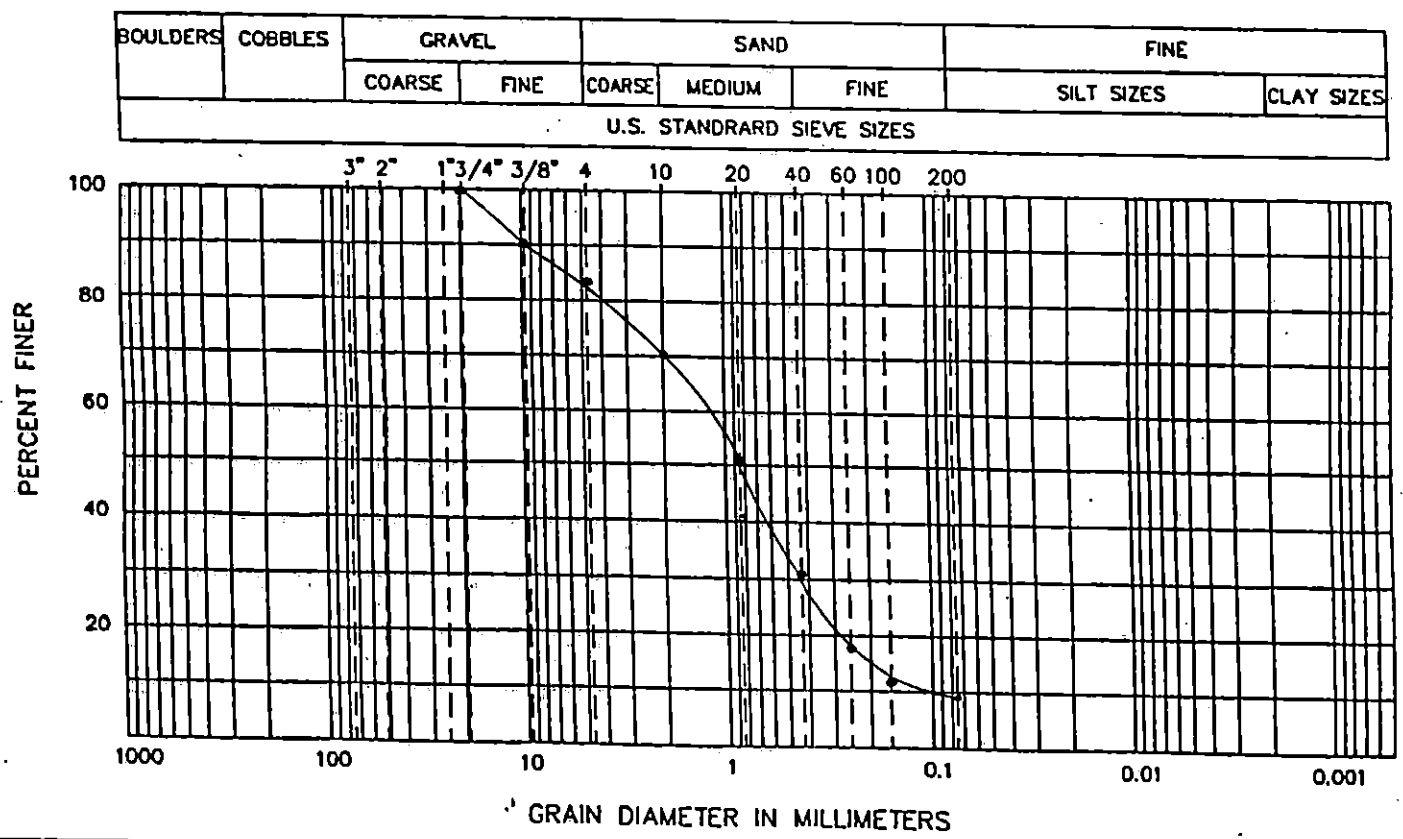
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 03 day 11 month 95 year

SAMPLE NO.: S-135 QA ID: PMK



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.2
3/8-in.	90.3
NO. 4	84.2
NO. 10	70.3
NO. 20	50.2
NO. 40	31.6
NO. 60	17.7
NO. 100	11.2
NO. 200	9.7

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 03 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-135 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10435	10600	10669	10645	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4590	4755	4824	4800	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	133.1	137.9	139.9	139.2	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	126.9	130.0	129.8	126.8	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.2	7.0	7.1	7.4	
G	WT. OF WET SOIL & TARE	(grams)	665.2	618.7	665.9	667.6	
H	WT. OF DRY SOIL & TARE	(grams)	634.5	583.5	618.2	608.7	
I	WT. OF WATER = G - H	(grams)	30.7	35.2	47.7	58.9	
J	WT. DRY SOIL = H - F	(grams)	627.3	576.5	611.1	601.3	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.9%	6.1%	7.8%	9.8%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

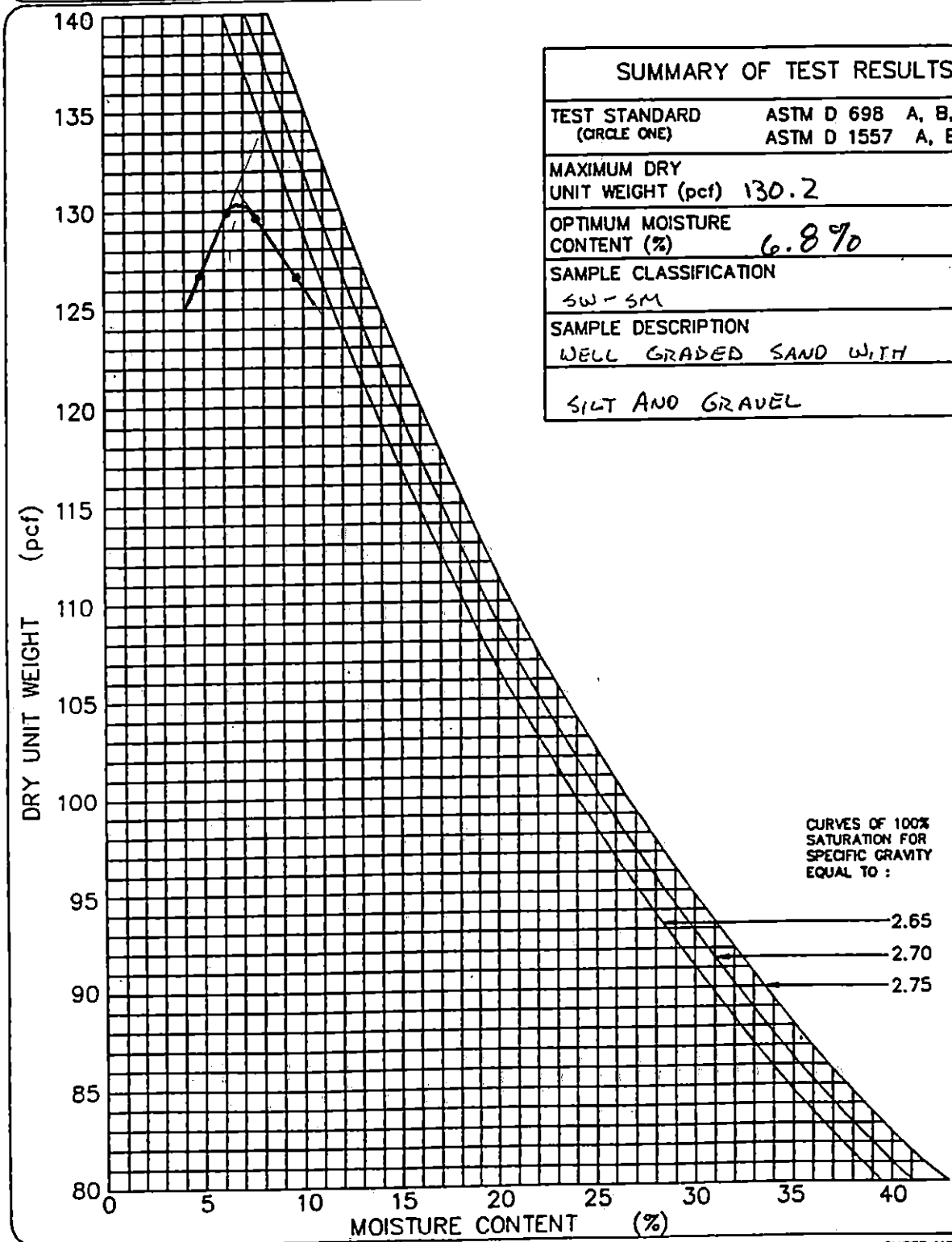
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 03 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-135 QA ID: D1R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.2
OPTIMUM MOISTURE CONTENT (%)	6.8%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-136 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1763.4	1538.9
WT. OF TARE	(grams)	16.0	19.1
WT. OF DRY SAMPLE	(grams)	1747.4	1519.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	47.2	2.7	97.3	
3/8"	9.5	155.5	8.9	91.1	
4	4.75	360.0	20.6	79.4	
10	2.0	573.1	32.8	67.2	
20	0.850	821.3	47.0	53.0	
40	0.425	1202.2	68.8	31.2	
60	0.250	1317.5	75.4	24.6	
100	0.150	1473.1	84.3	15.7	
200	0.075	1518.5	86.9	13.1	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

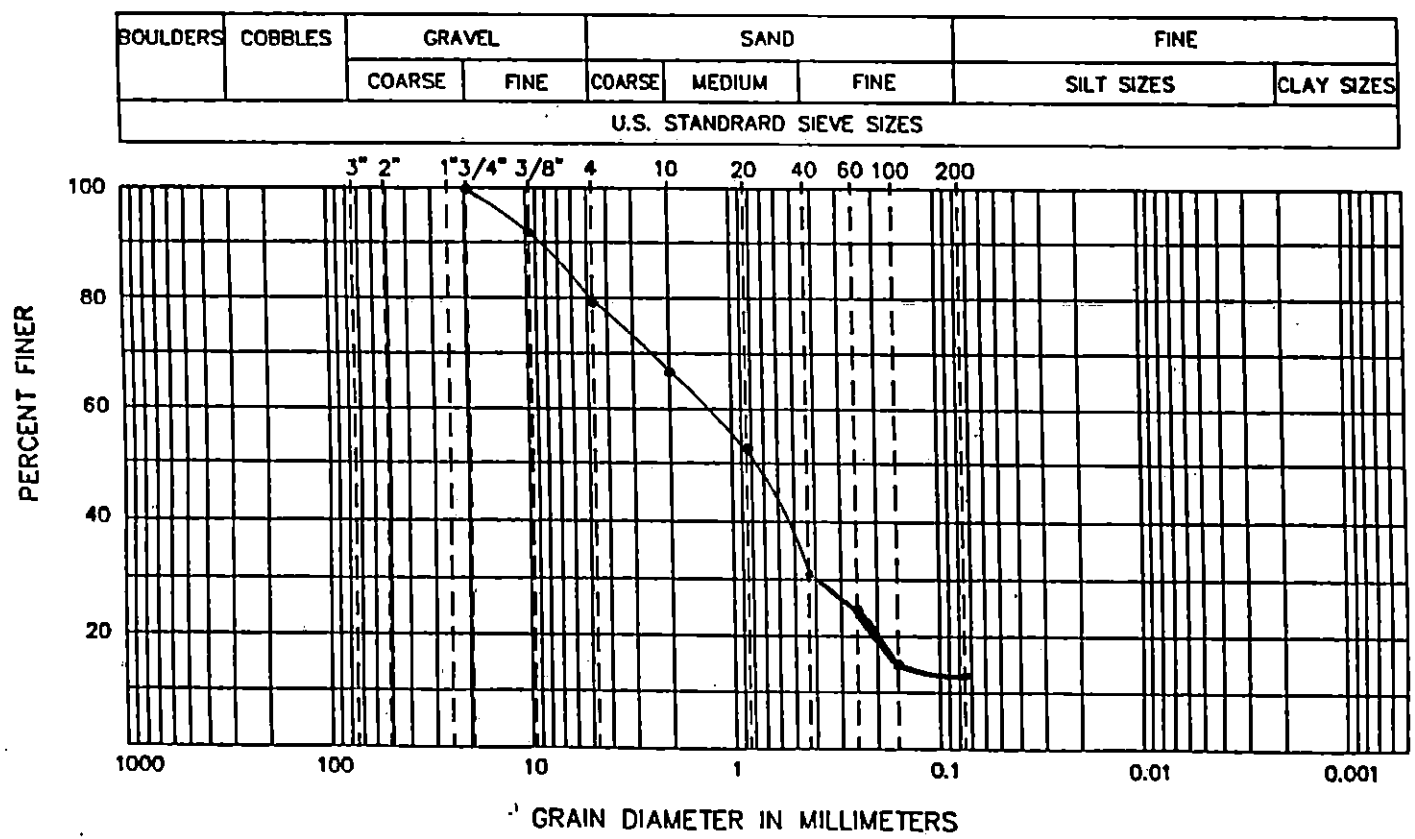
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-136 QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.3
3/8-in.	91.1
NO. 4	79.4
NO. 10	67.2
NO. 20	53.6
NO. 40	31.2
NO. 60	24.6
NO. 100	15.7
NO. 200	13.1

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND W/GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 06 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-136 — QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10262	10497	10614	10590	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4417	4652	4769	4745	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.0	134.9	138.3	137.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.5	126.7	127.2	124.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	6.9	6.9	7.1	7.2	
G	WT. OF WET SOIL & TARE	(grams)	632.5	668.6	670.9	683.5	
H	WT. OF DRY SOIL & TARE	(grams)	605.6	628.2	617.8	620.9	
I	WT. OF WATER = G - H	(grams)	26.9	40.4	53.1	62.6	
J	WT. DRY SOIL = H - F	(grams)	598.7	621.3	610.7	613.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.5%	6.5%	8.7%	10.2%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

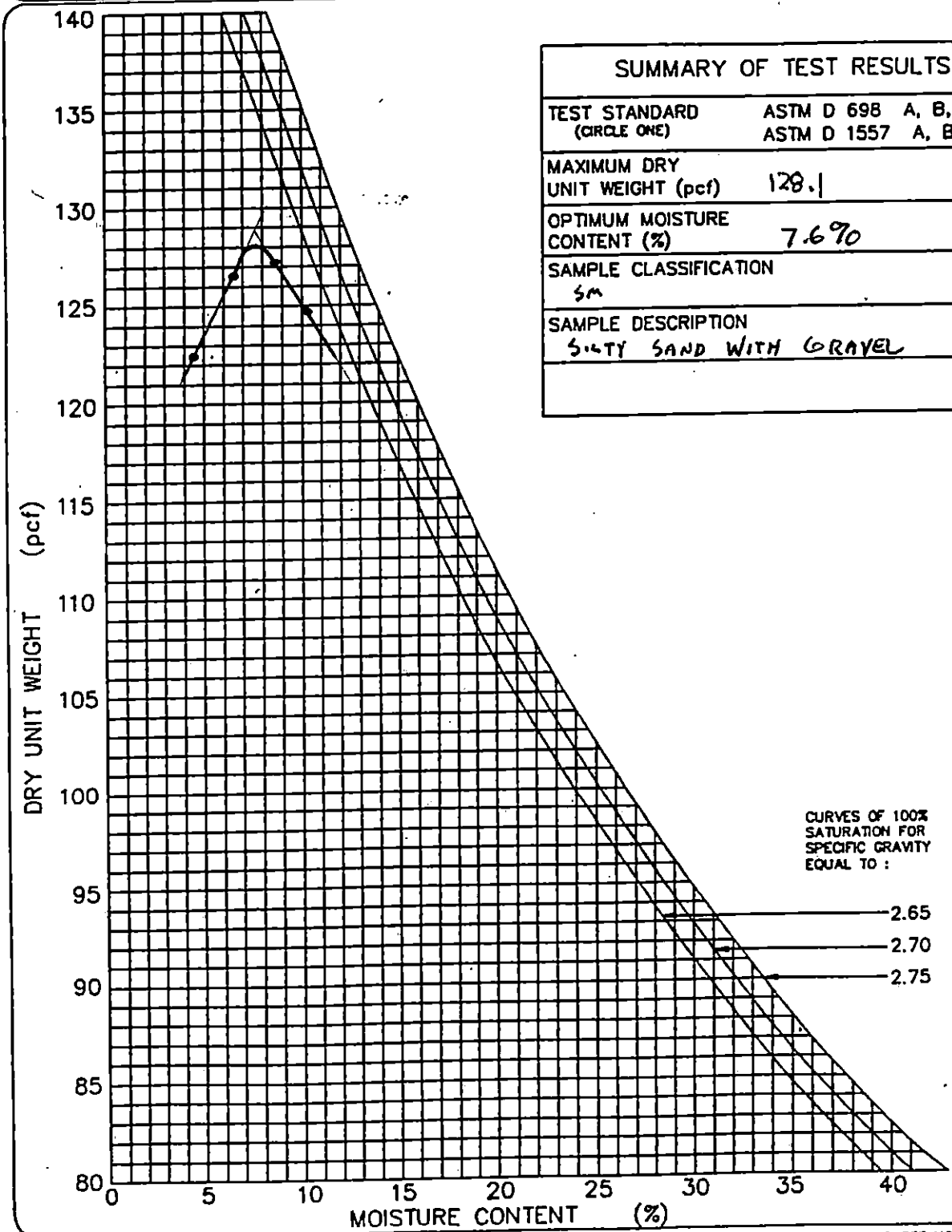
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 06 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT SELECT SAMPLE NO.: S-136 QA ID: DAR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.1
OPTIMUM MOISTURE CONTENT (%)	7.6%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-137 QA ID: P1R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1671.0	1462.7
WT. OF TARE	(grams)	15.9	16.4
WT. OF DRY SAMPLE	(grams)	1655.1	1446.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	101.0	6.1	93.9	
3/8"	9.5	170.5	10.3	89.7	
4	4.75	278.1	16.8	83.2	
10	2.0	554.4	33.5	66.5	
20	0.850	791.1	47.8	52.2	
40	0.425	1161.9	70.2	29.8	
60	0.250	1236.4	74.7	25.3	
100	0.150	1370.4	82.8	17.2	
200	0.075	1444.9	87.3	12.7	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

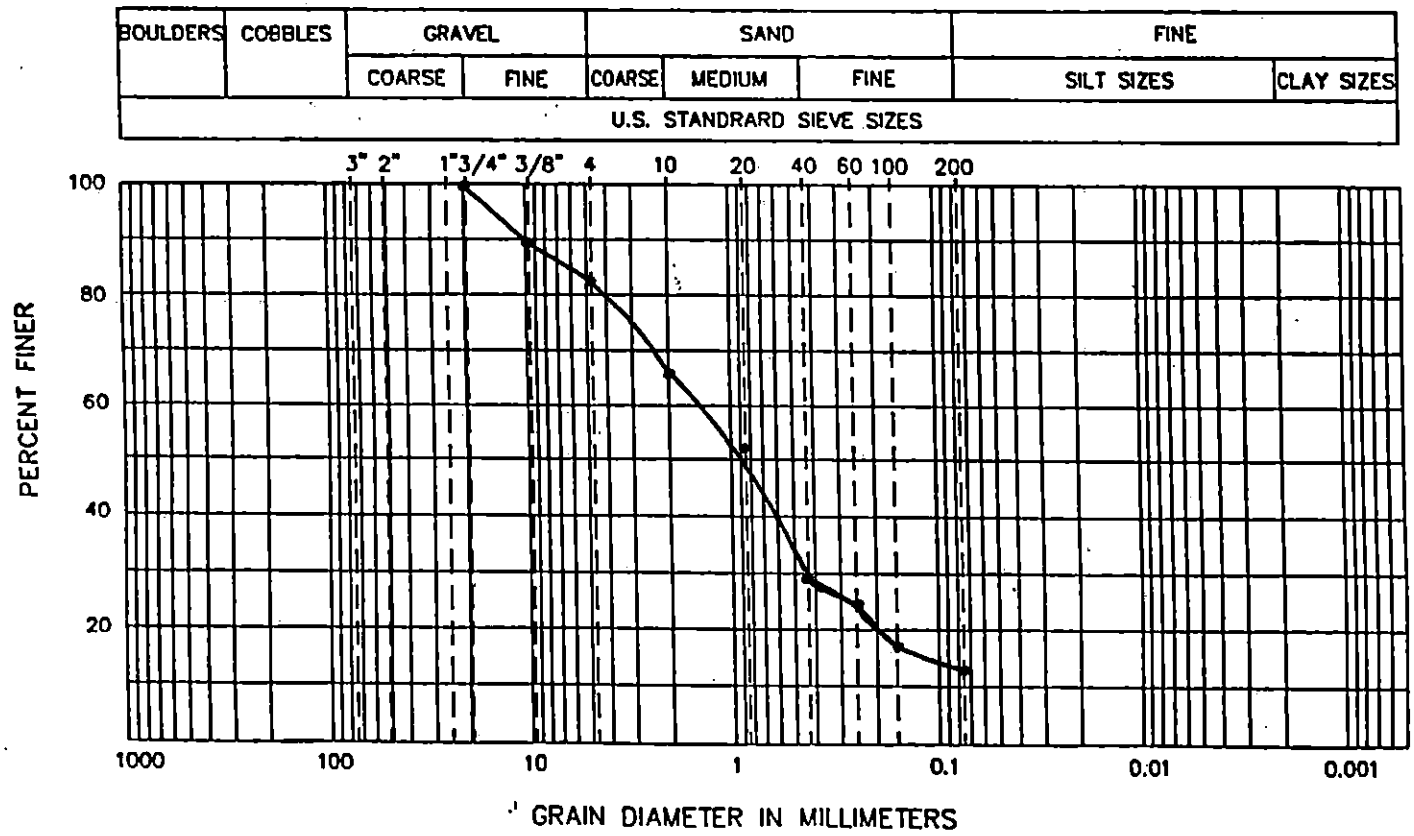
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 07 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-137 — QA ID: JAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	93.9
3/8-in.	89.7
NO. 4	83.2
NO. 10	66.5
NO. 20	52.2
NO. 40	29.8
NO. 60	26.3
NO. 100	17.2
NO. 200	12.7

SOIL CLASSIFICATION (ASTM D 2487): SM – SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 07 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-137 — QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10355	10524	10617	10586	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4510	4679	4772	4741	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.8	135.7	138.4	137.5	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.2	127.2	127.7	125.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.0	7.0	7.1	7.2	
G	WT. OF WET SOIL & TARE	(grams)	637.3	661.5	691.9	677.1	
H	WT. OF DRY SOIL & TARE	(grams)	605.6	620.4	638.8	618.4	
I	WT. OF WATER = G - H	(grams)	31.7	41.1	53.1	58.7	
J	WT. DRY SOIL = H - F	(grams)	598.6	613.4	631.7	611.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.3%	6.7%	8.4%	9.6%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

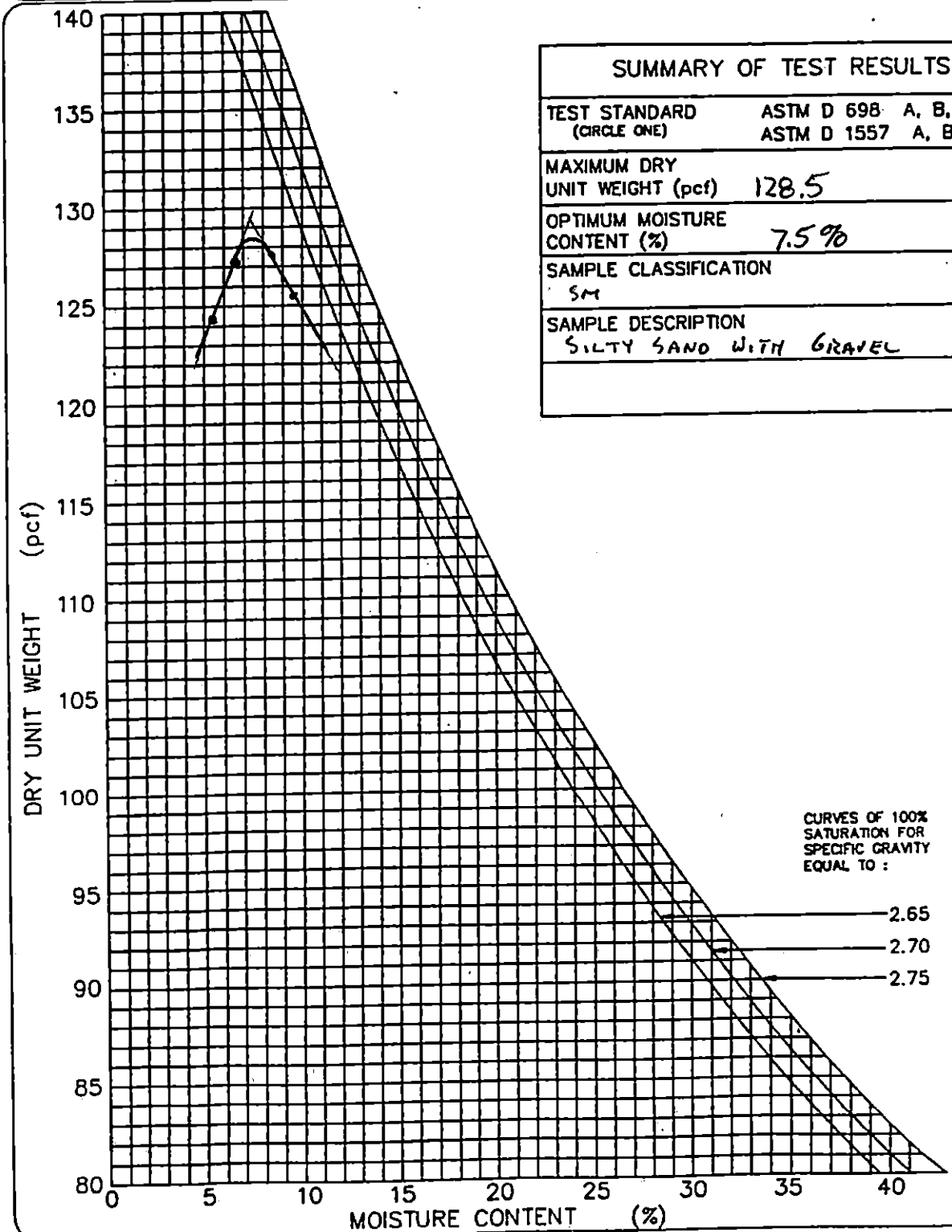
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-137 QA ID: D/R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.5
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-138 QA ID: PAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1613.2	1665.3
WT. OF TARE	(grams)	14.9	16.0
WT. OF DRY SAMPLE	(grams)	1598.3	1649.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	81.6	4.3	95.7	
3/8"	9.5	186.0	9.8	90.2	
4	4.75	320.8	16.9	83.1	
10	2.0	558.1	29.4	70.6	
20	0.850	859.9	45.3	54.7	
40	0.425	1307.9	68.9	31.1	
60	0.250	1400.9	73.8	26.2	
100	0.150	1569.9	82.7	17.3	
200	0.075	1647.7	86.8	13.2	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

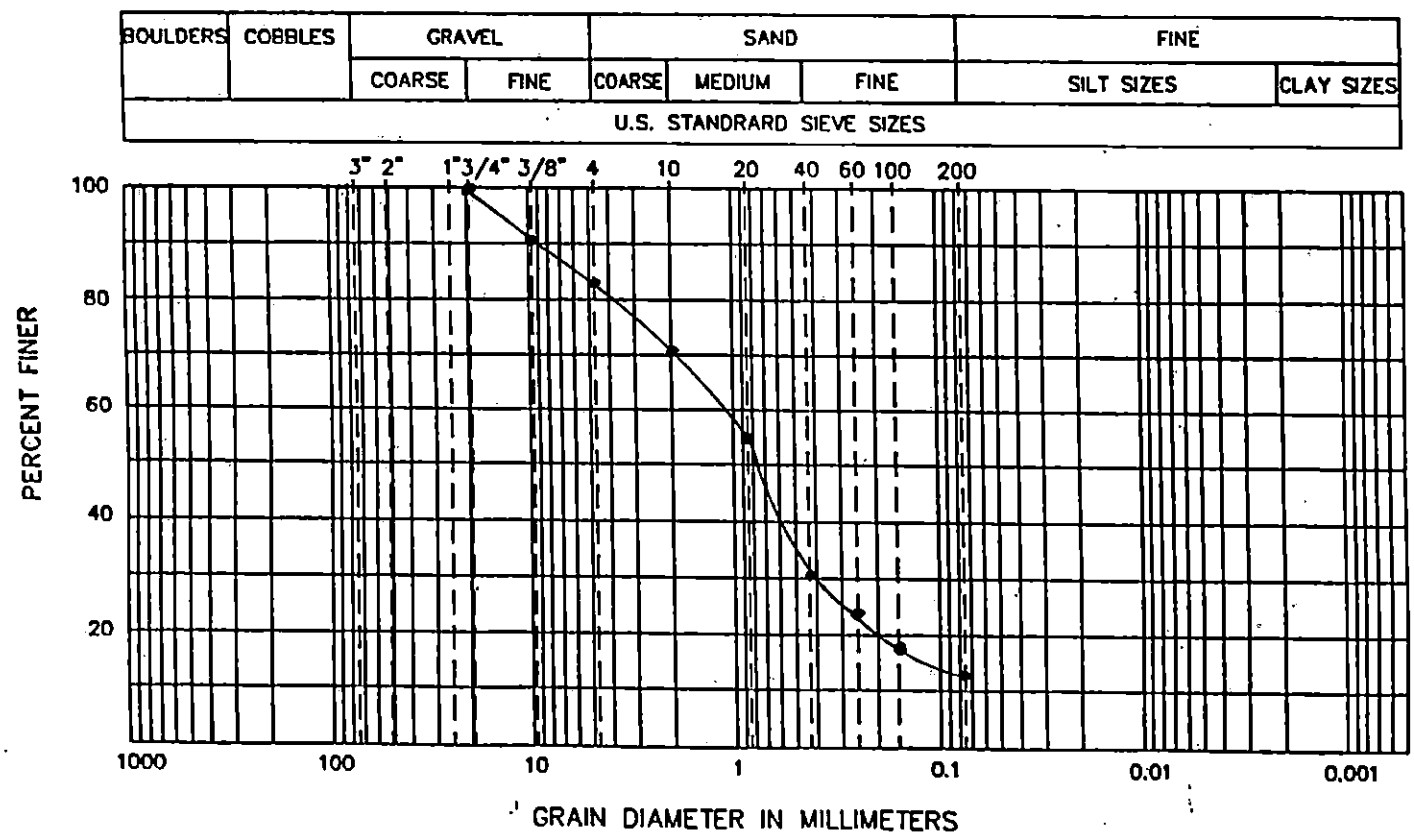
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 08 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-138 — QA ID: D/R



CURVE COEFFICIENTS

(C_U) .....

(C_C) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.6
1/2-in.	95.7
3/8-in.	90.2
NO. 4	83.1
NO. 10	70.6
NO. 20	54.7
NO. 40	31.1
NO. 60	26.2
NO. 100	17.3
NO. 200	13.2

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-138 QA ID: PAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10317	10503	10614	10593	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4472	4658	4769	4748	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.7	135.1	138.3	137.7	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.5	126.7	127.1	125.3	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL. THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.0	7.0	6.9	7.2	
G	WT. OF WET SOIL & TARE	(grams)	635.2	668.2	679.2	675.8	
H	WT. OF DRY SOIL & TARE	(grams)	605.3	627.3	624.8	615.6	
I	WT. OF WATER = G - H	(grams)	29.9	40.9	54.4	60.2	
J	WT. DRY SOIL = H - F	(grams)	598.3	620.3	617.9	608.4	
K	MOISTURE CONTENT = (I/J) X 100	(%)	5.0%	6.6%	8.8%	9.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

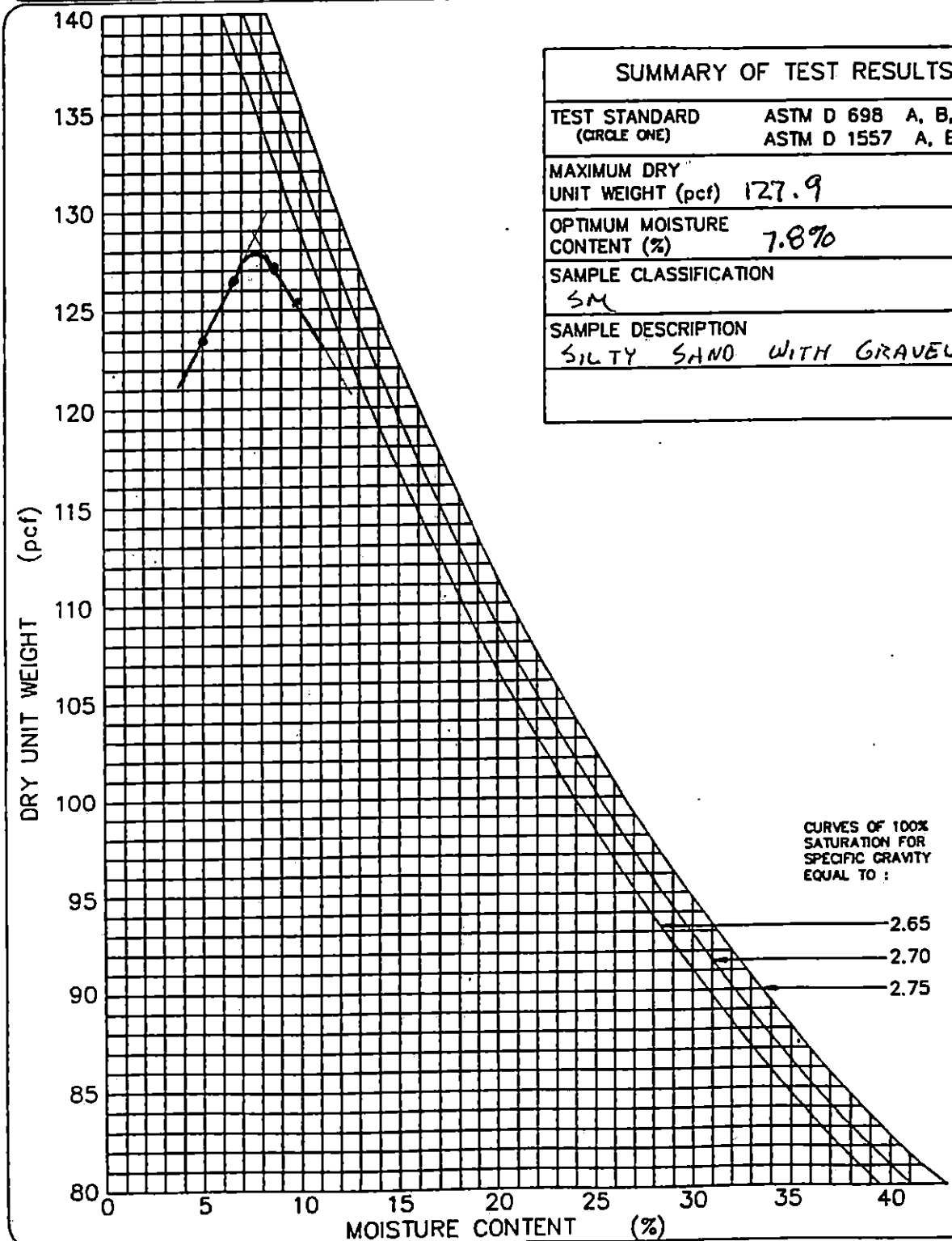
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-138 QA ID: 218

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	127.9
OPTIMUM MOISTURE CONTENT (%)	7.8%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-139 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1750.5	1531.3
WT. OF TARE	(grams)	17.3	16.0
WT. OF DRY SAMPLE	(grams)	1733.2	1515.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	84.9	4.9	95.1	
3/8"	9.5	169.9	9.8	90.2	
4	4.75	284.2	16.4	83.6	
10	2.0	535.6	30.9	69.1	
20	0.850	767.8	44.3	55.7	
40	0.425	922.1	53.2	46.8	
60	0.250	1130.0	65.2	34.8	
100	0.150	1402.2	80.9	19.1	
200	0.075	1513.1	87.3	12.7	

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

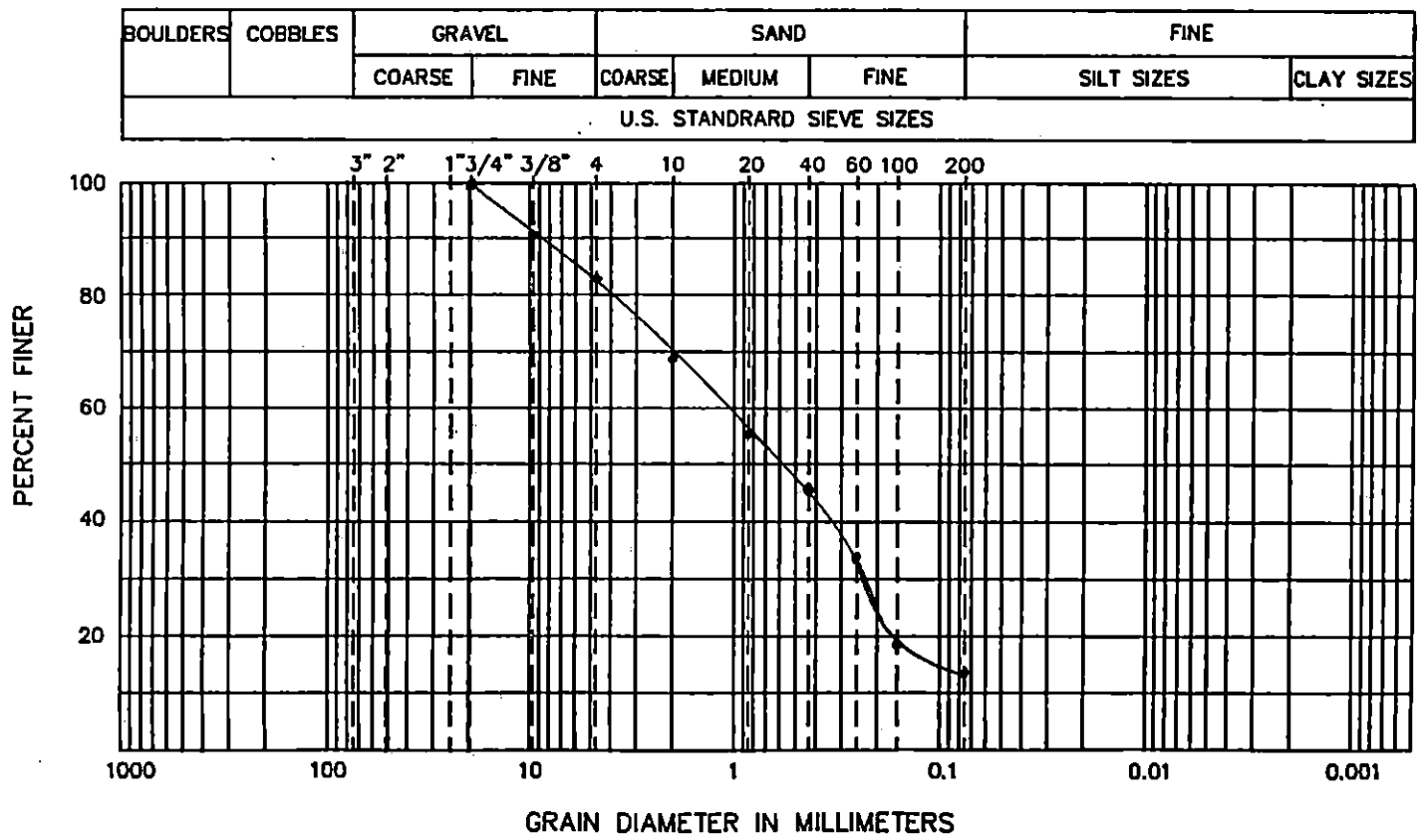
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 11 month 95 year

SOURCE: B. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-139 QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.1
3/8-in.	90.2
NO. 4	83.6
NO. 10	69.1
NO. 20	55.7
NO. 40	46.8
NO. 60	34.8
NO. 100	19.1
NO. 200	12.7

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 10 day 11 month 95 year

SOURCE: B. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-139 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10259	10548	10673	10638	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4414	4703	4828	4793	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.0	136.4	140.0	138.0	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.1	128.4	128.8	125.7	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	7.9	8.2	8.4	
G	WT. OF WET SOIL & TARE	(grams)	604.7	658.0	707.9	711.3	
H	WT. OF DRY SOIL & TARE	(grams)	581.7	620.0	651.9	648.6	
I	WT. OF WATER = G - H	(grams)	23.0	38.0	56.0	62.7	
J	WT. DRY SOIL = H - F	(grams)	573.8	612.1	643.7	640.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.0	6.2	8.7	9.8	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

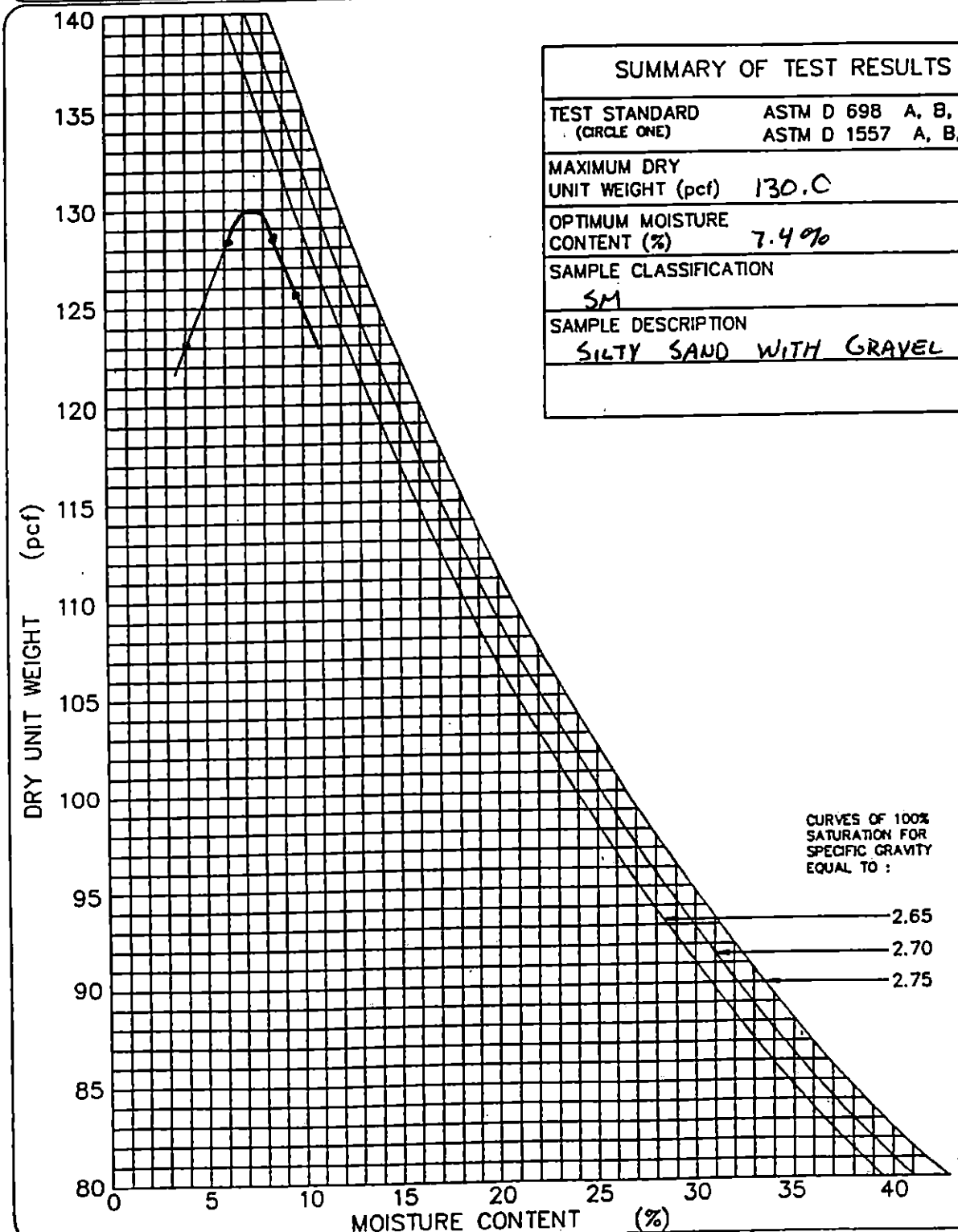
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-139 QA ID: 21R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.0
OPTIMUM MOISTURE CONTENT (%)	7.4%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-140 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1757.1	1596.9
WT. OF TARE	(grams)	17.9	16.1
WT. OF DRY SAMPLE	(grams)	1739.2	1580.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	109.6	6.3	93.7	
3/8"	9.5	180.9	10.4	89.6	
4	4.75	349.6	20.1	79.9	
10	2.0	603.5	34.7	65.3	
20	0.850	779.2	44.8	55.2	
40	0.425	1120.0	64.4	35.6	
60	0.250	1389.6	79.9	20.1	
100	0.150	1507.9	86.7	13.3	
200	0.075	1579.2	90.8	9.8	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

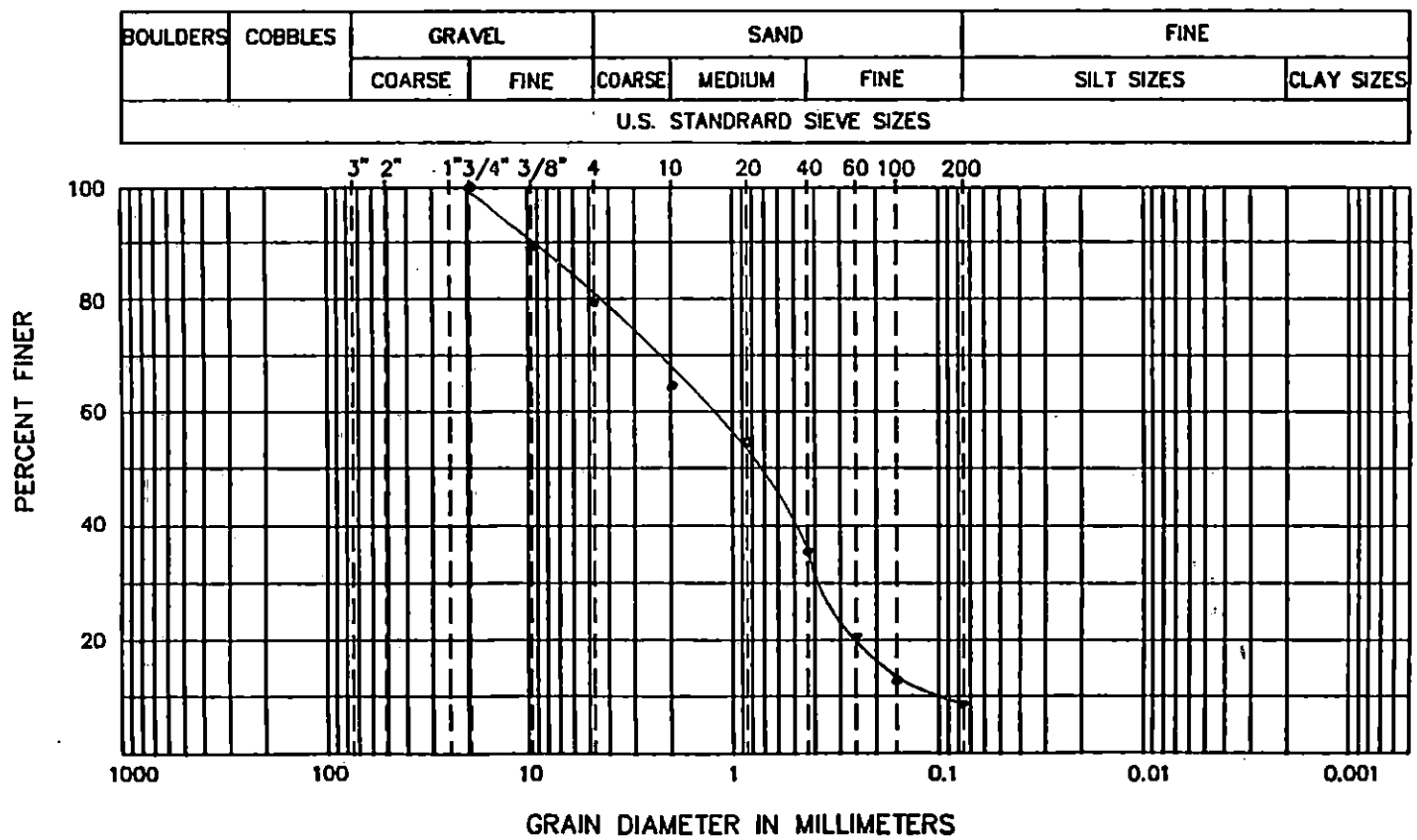
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 11 month 85 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-140 QA ID: DJR



CURVE COEFFICIENTS

(C_u) 11.0

(C_c) 1.4

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	93.7
3/8-in.	89.6
NO. 4	79.9
NO. 10	65.3
NO. 20	55.2
NO. 40	35.6
NO. 60	20.1
NO. 100	13.3
NO. 200	9.8

SOIL CLASSIFICATION (ASTM D 2487): SW-SM - WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-140 QA ID: >17R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20%
AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10269	10500	10659	10624	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4424	4655	4814	4779	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.3	135.0	139.6	138.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.9	126.8	128.1	125.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	7.9	8.3	
G	WT. OF WET SOIL & TARE	(grams)	646.6	722.9	727.7	712.2	
H	WT. OF DRY SOIL & TARE	(grams)	619.7	679.3	668.3	647.6	
I	WT. OF WATER = G - H	(grams)	26.9	43.6	59.4	64.6	
J	WT. DRY SOIL = H - F	(grams)	611.7	671.3	660.4	639.3	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.4%	6.5%	9.0%	10.1%	

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

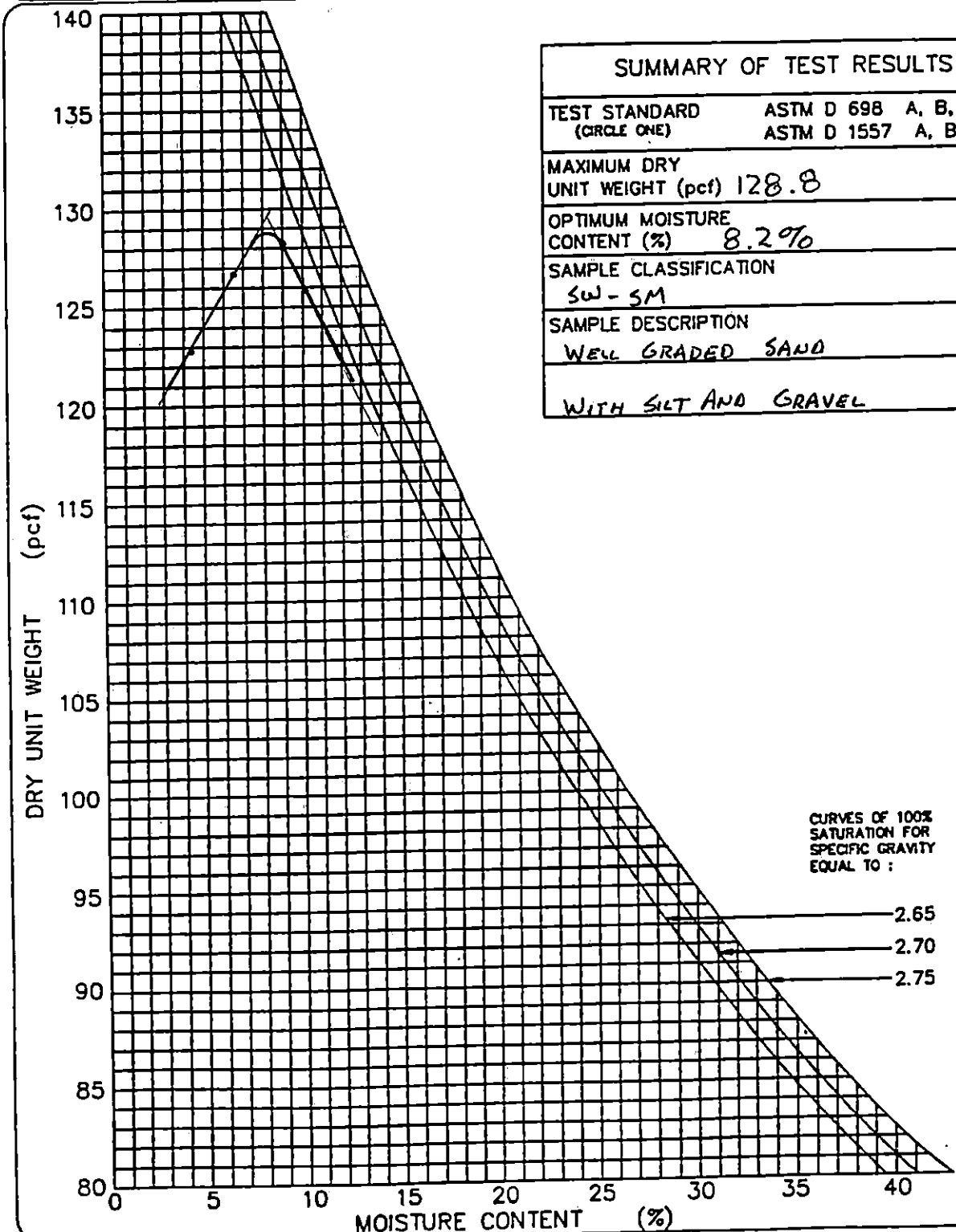
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-140 QA ID: 7/8

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.8
OPTIMUM MOISTURE CONTENT (%)	8.2%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-141 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1961.3	1704.9
WT. OF TARE	(grams)	18.1	15.9
WT. OF DRY SAMPLE	(grams)	1943.2	1689.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	114.6	5.9	94.1	
3/8"	9.5	202.1	10.4	89.6	
4	4.75	345.9	17.8	82.2	
10	2.0	563.5	29.0	71.0	
20	0.850	775.3	39.9	60.1	
40	0.425	1171.7	60.3	39.7	
60	0.250	1383.6	71.2	28.8	
100	0.150	1562.3	80.4	19.6	
200	0.075	1686.7	86.8	13.2	

%FINER = 100 − Σ% RETAINED

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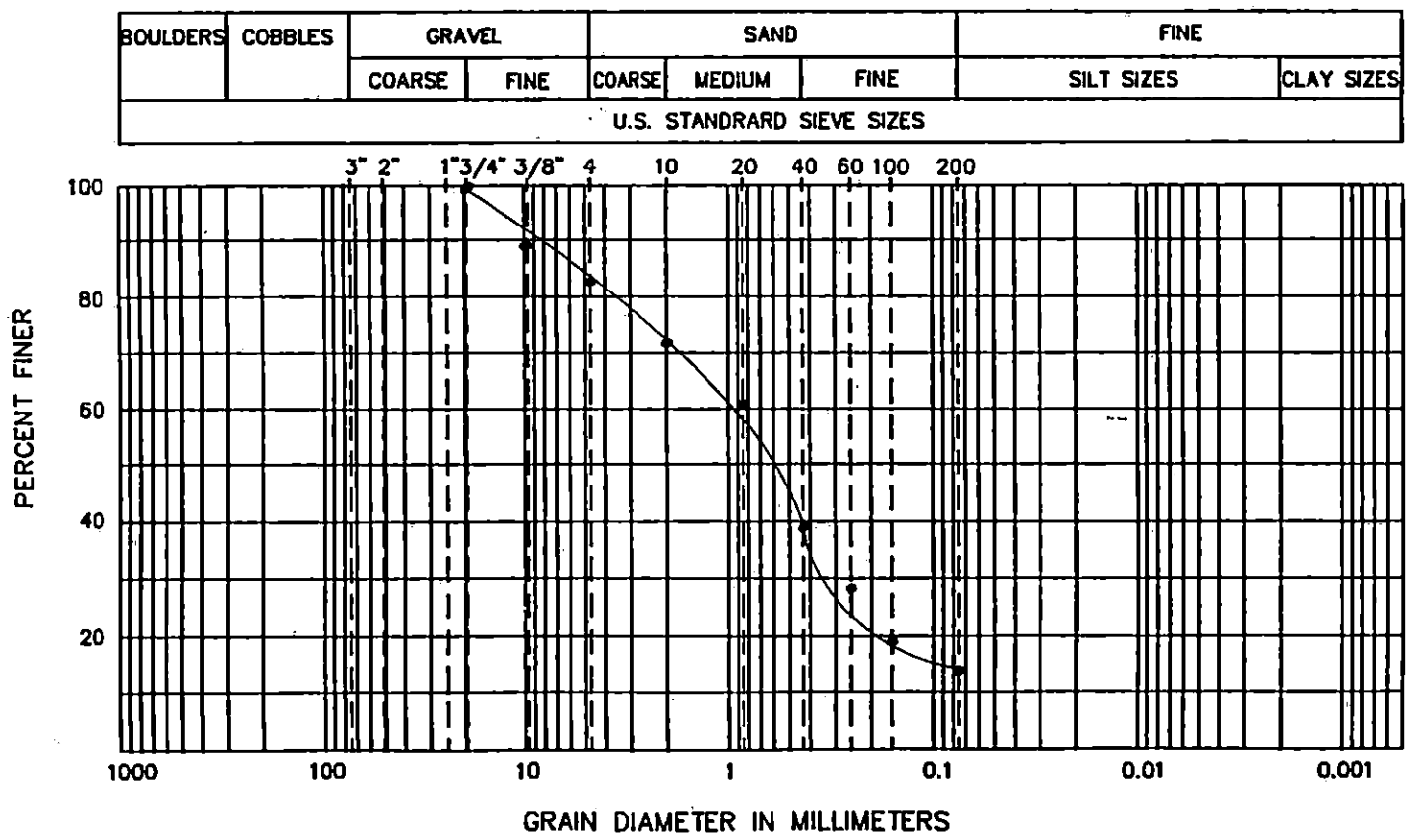
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 13 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-141 — QA ID: DJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.1
3/8-in.	89.6
NO. 4	82.2
NO. 10	71.9
NO. 20	60.1
NO. 40	39.7
NO. 60	28.8
NO. 100	19.6
NO. 200	13.2

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-141 QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10311	10579	10659	10600	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4466	4734	4814	4755	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.5	137.3	139.6	137.9	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.2	129.0	128.3	125.5	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	635.3	676.0	703.9	701.8	
H	WT. OF DRY SOIL & TARE	(grams)	609.4	635.8	647.6	639.3	
I	WT. OF WATER = G - H	(grams)	25.9	40.2	56.3	62.5	
J	WT. DRY SOIL = H - F	(grams)	601.4	627.7	639.6	631.1	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.3	6.4	8.8	9.9	

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

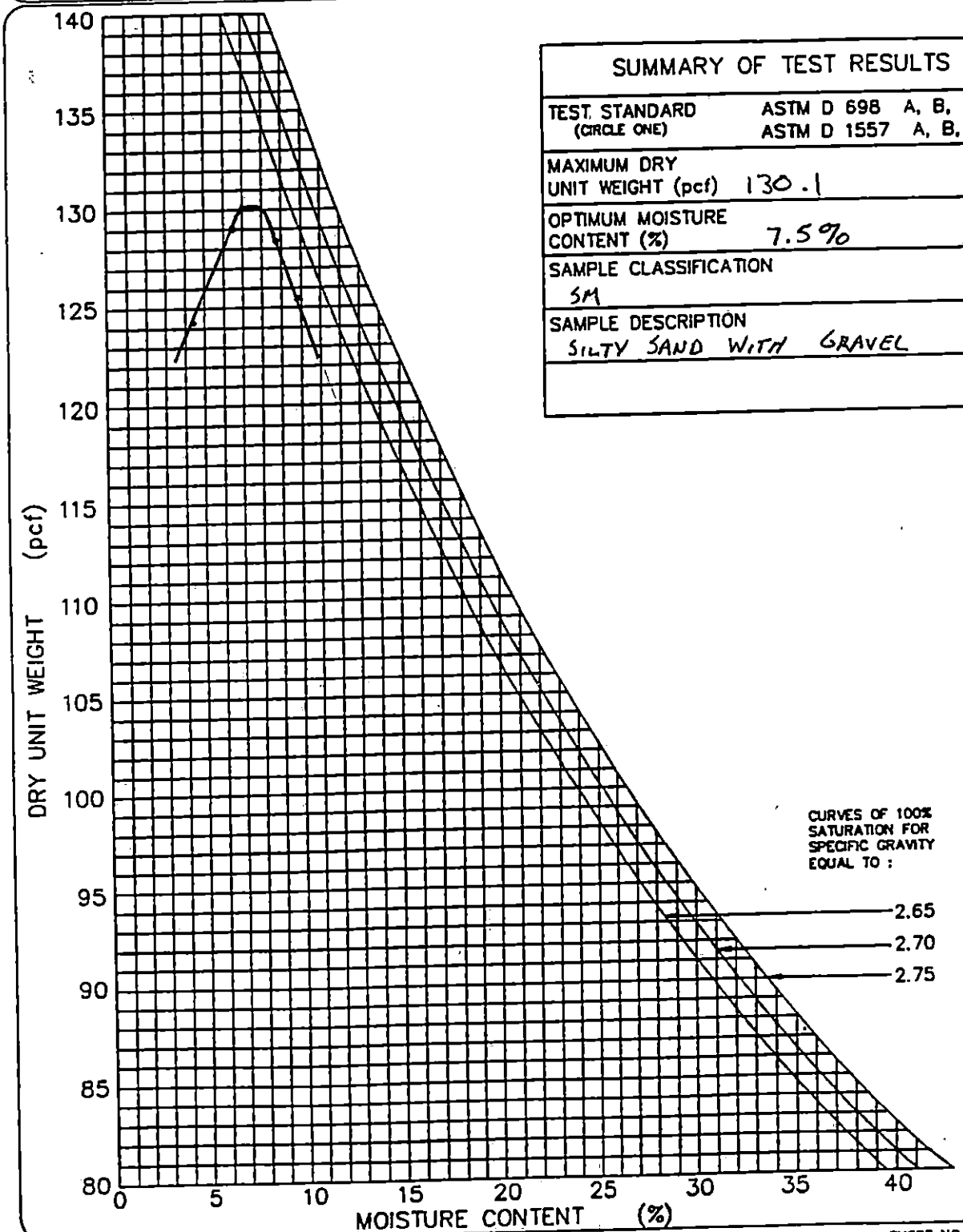
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 11 month 95 year

SOURCE: R. SCHNEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-141 QA ID: D/R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.1
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-142 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1778.1	1556.5
WT. OF TARE	(grams)	16.6	18.3
WT. OF DRY SAMPLE	(grams)	1761.5	1538.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	107.5	6.1	93.9	
3/8"	9.5	195.5	11.1	88.9	
4	4.75	288.9	16.4	83.6	
10	2.0	473.8	26.9	73.1	
20	0.850	711.6	40.4	59.6	
40	0.425	1037.5	58.9	41.1	
60	0.250	1349.3	76.6	23.4	
100	0.150	1479.7	84.0	16.0	
200	0.075	1536.0	87.2	12.8	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

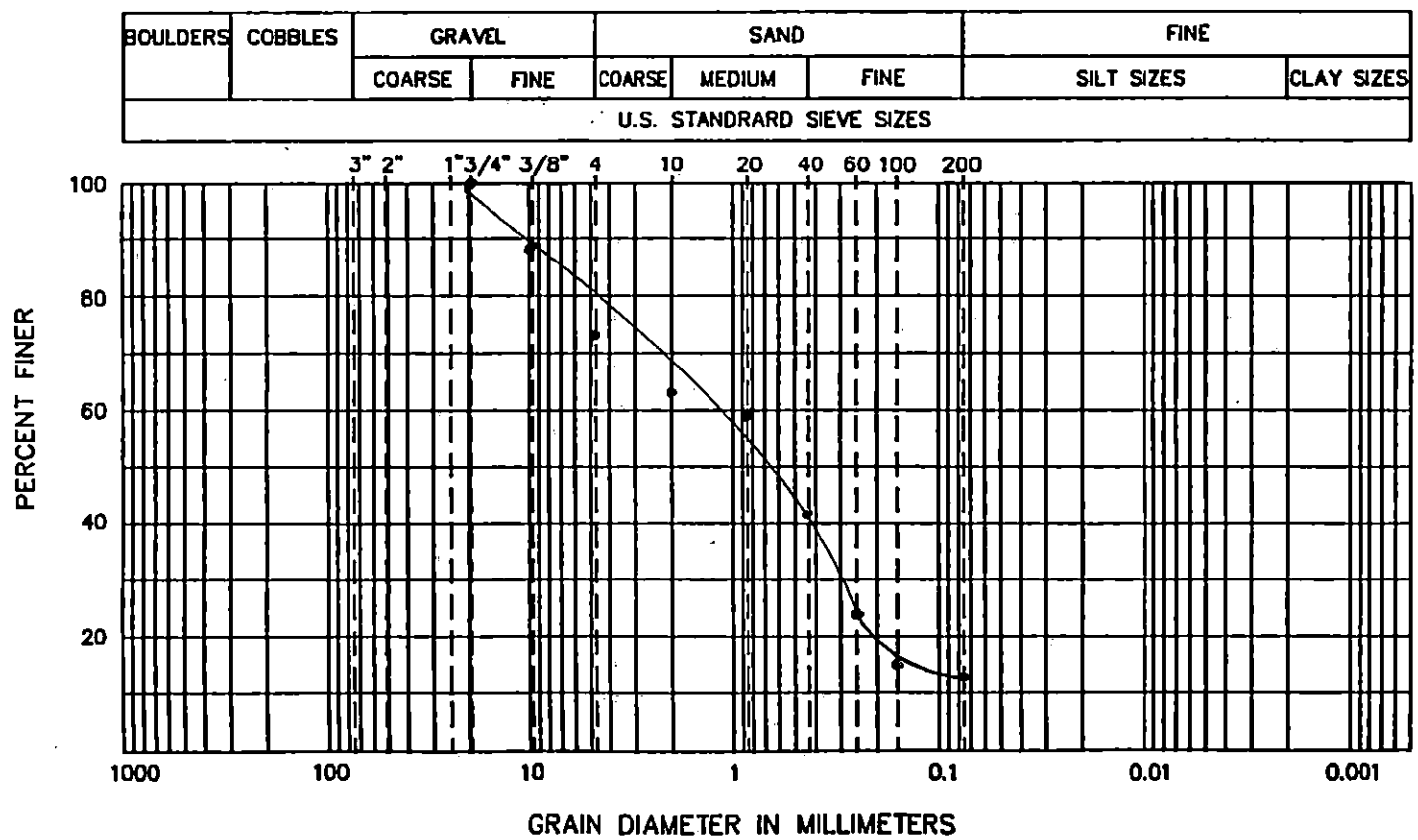
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-142 QA ID: 218



CURVE COEFFICIENTS

(C_U) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	93.9
3/8-in.	88.9
NO. 4	83.6
NO. 10	73.1
NO. 20	59.6
NO. 40	41.1
NO. 60	23.4
NO. 100	16.0
NO. 200	12.8

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 13 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-142 — QA ID: 3/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10335	10573	10662	11662	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4490	4728	4817	5817	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.2	137.1	139.7	138.7	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.1	128.0	127.9	126.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.1	8.1	8.4	
G	WT. OF WET SOIL & TARE	(grams)	624.8	683.0	682.2	713.7	
H	WT. OF DRY SOIL & TARE	(grams)	596.0	638.3	625.4	649.6	
I	WT. OF WATER = G - H	(grams)	28.8	44.7	56.8	64.1	
J	WT. DRY SOIL = H - F	(grams)	588.1	630.2	617.3	641.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.9	7.1	9.2	10.0	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

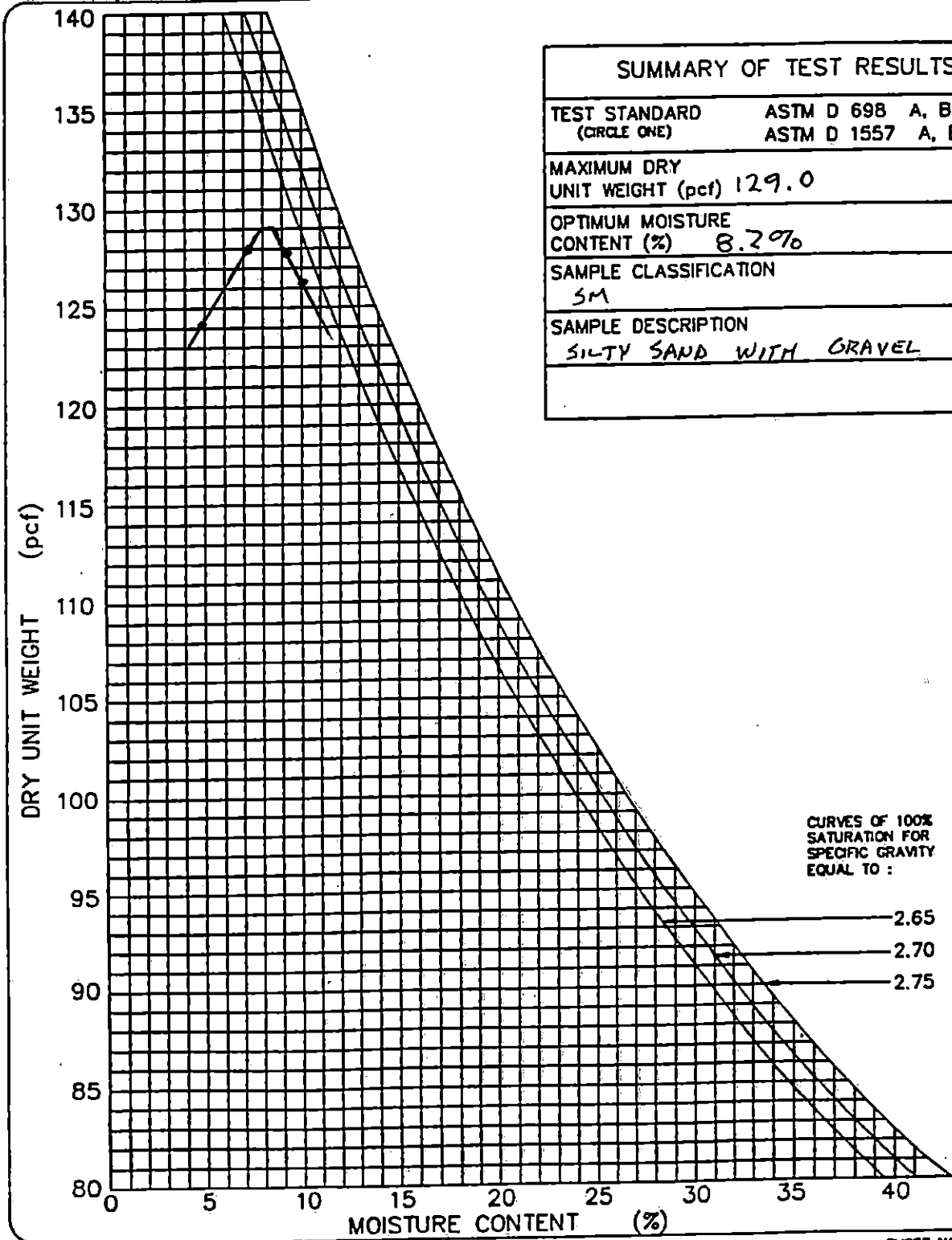
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-142 QA ID: >9R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.0
OPTIMUM MOISTURE CONTENT (%)	8.2%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL
LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01
DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 11 month 95 year
SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-143 QA ID: 21R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1713.8	1498.2
WT. OF TARE	(grams)	15.7	16.9
WT. OF DRY SAMPLE	(grams)	1698.1	1481.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	56.0	3.3	96.7	
3/8"	9.5	125.7	7.4	92.6	
4	4.75	337.9	19.9	80.1	
10	2.0	400.8	23.6	76.4	
20	0.850	682.6	40.2	59.8	
40	0.425	1091.9	64.3	35.7	
60	0.250	1353.4	79.7	20.3	
100	0.150	1450.2	85.4	14.6	
200	0.075	1479.0	87.1	12.9	

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

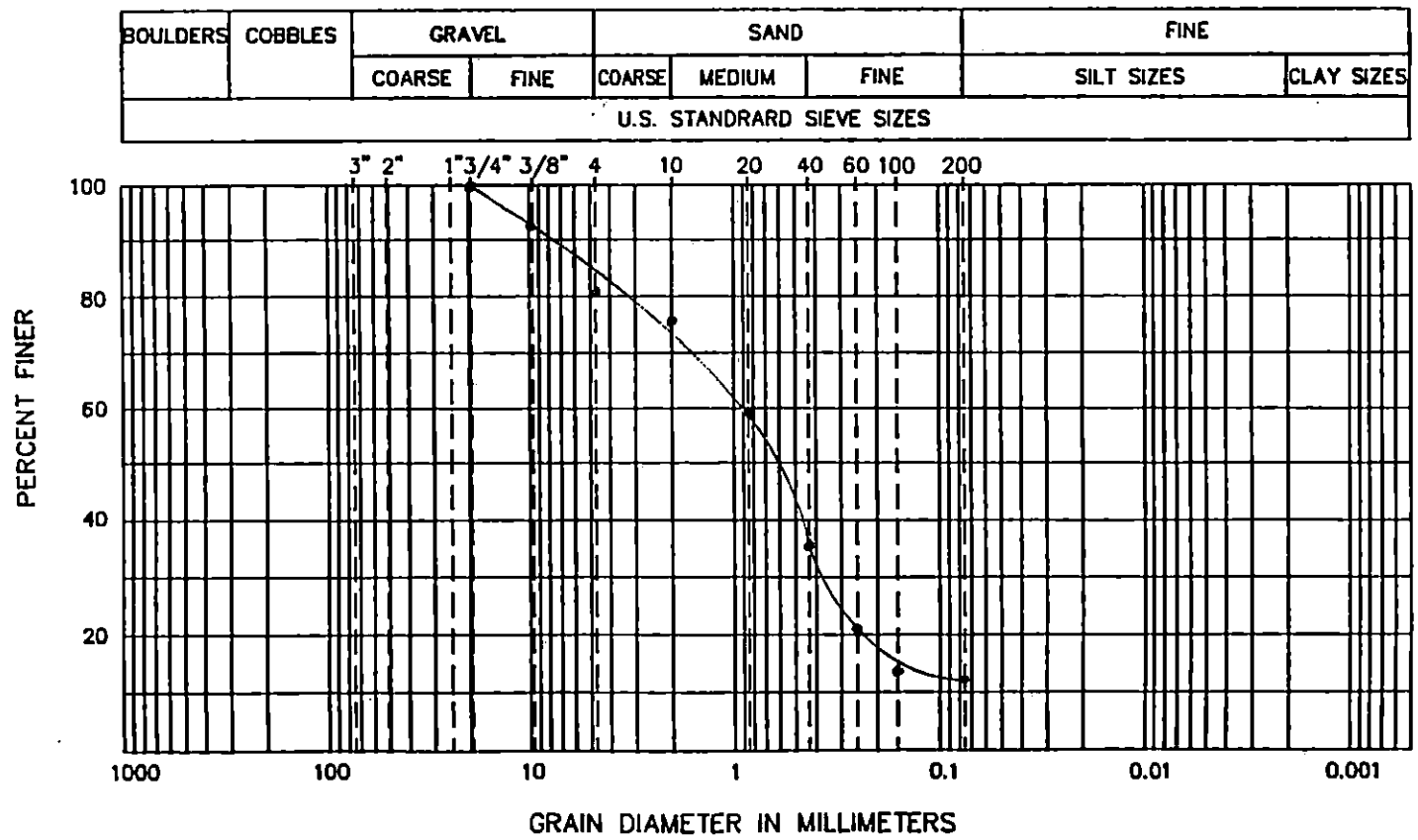
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 14 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-143 — QA ID: JAR



CURVE COEFFICIENTS

(C_u) . . . . .

(C_c) . . . . . .

ATTERBERG LIMITS

(LL) . . . . . .

(PL) . . . . . .

(PI) . . . . . .

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.7
3/8-in.	92.6
NO. 4	80.1
NO. 10	76.4
NO. 20	59.8
NO. 40	35.7
NO. 60	20.3
NO. 100	14.6
NO. 200	12.9

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-143 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10362	10611	10686	10614	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4517	4766	4841	4769	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	131.0	138.2	140.4	138.3	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	125.0	129.5	129.5	126.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.0	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	619.3	645.5	674.2	735.8	
H	WT. OF DRY SOIL & TARE	(grams)	591.3	605.5	622.6	671.5	
I	WT. OF WATER = G - H	(grams)	28.0	40.0	51.6	64.3	
J	WT. DRY SOIL = H - F	(grams)	583.2	597.5	614.6	663.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.8	6.7	8.4	9.7	

GeoSyntec Consultants

TOWN OF HUNTINGTON

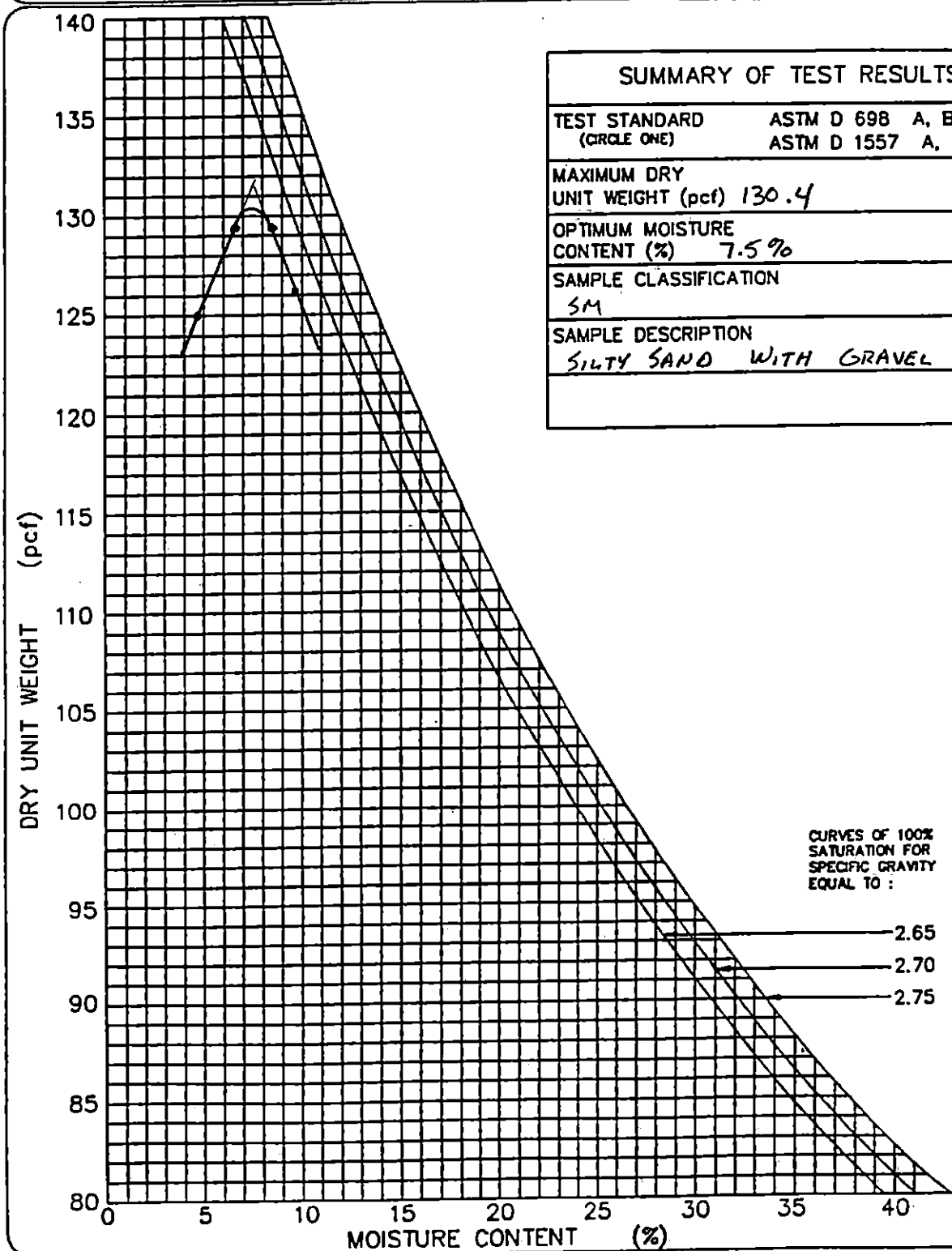
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-143 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.4
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-144 QA ID: DAR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1755.6	1525.8
WT. OF TARE	(grams)	16.0	18.1
WT. OF DRY SAMPLE	(grams)	1739.6	1507.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	92.2	5.3	94.7	
3/8"	9.5	203.5	11.7	88.3	
4	4.75	285.3	16.4	83.6	
10	2.0	523.6	30.1	69.9	
20	0.850	737.6	42.4	57.6	
40	0.425	1055.9	60.7	38.3	
60	0.250	1369.1	78.7	21.3	
100	0.150	1459.5	83.9	16.1	
200	0.075	1506.5	86.6	13.4	

%FINER = 100 − Σ% RETAINED

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

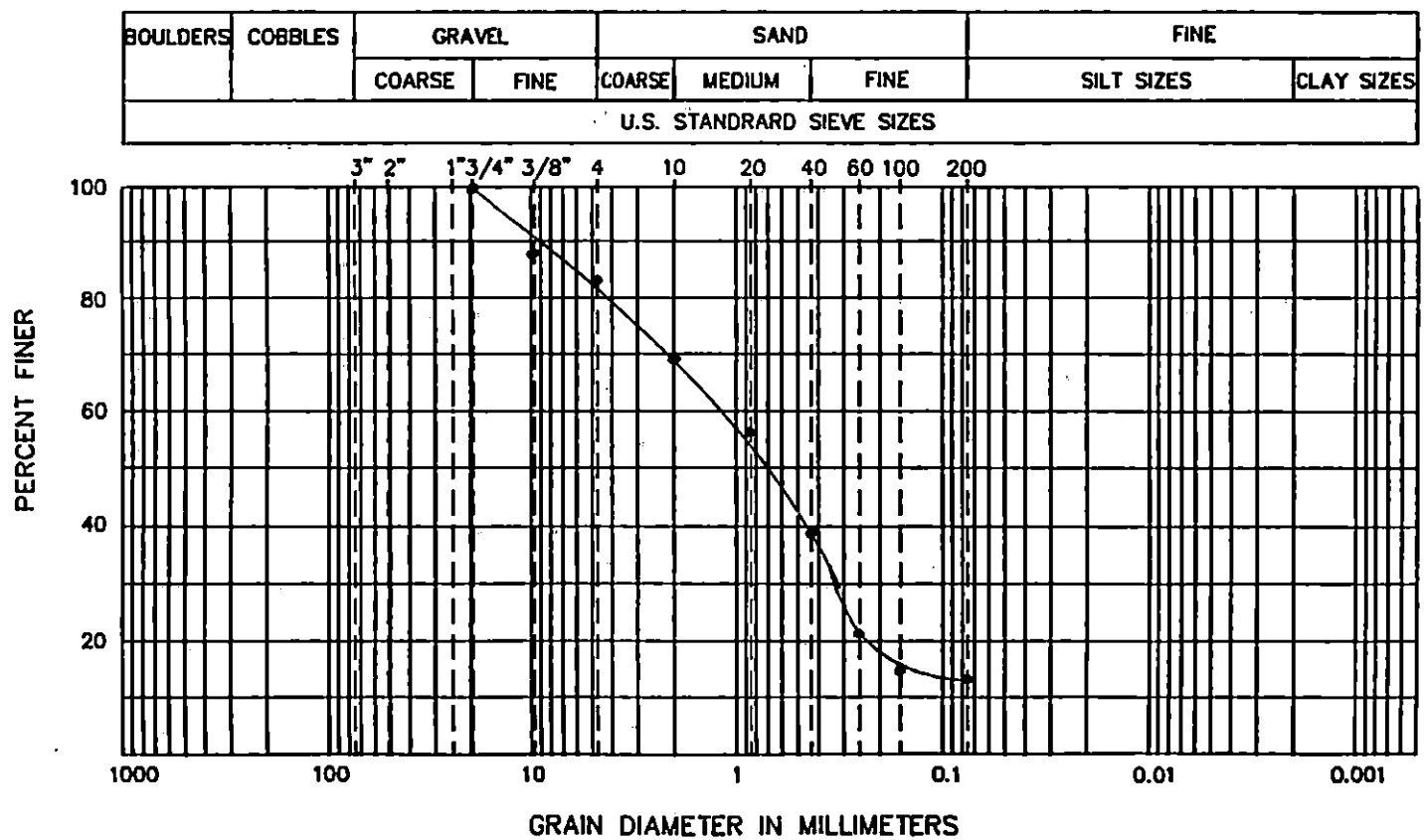
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-144 QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.7
3/8-in.	88.3
NO. 4	83.6
NO. 10	69.9
NO. 20	57.6
NO. 40	39.3
NO. 60	21.3
NO. 100	16.1
NO. 200	13.4

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 15 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-144 — QA ID: 217

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10259	10462	10666	10635	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4414	4617	4821	4790	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.0	133.9	139.8	138.9	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.8	126.2	129.0	126.7	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	594.9	663.7	670.6	699.1	
H	WT. OF DRY SOIL & TARE	(grams)	571.2	626.0	619.3	638.6	
I	WT. OF WATER = G - H	(grams)	23.7	37.7	51.3	60.5	
J	WT. DRY SOIL = H - F	(grams)	563.2	617.9	611.3	630.4	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.2 %	6.1 %	8.4 %	9.6 %	

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TOWN OF HUNTINGTON

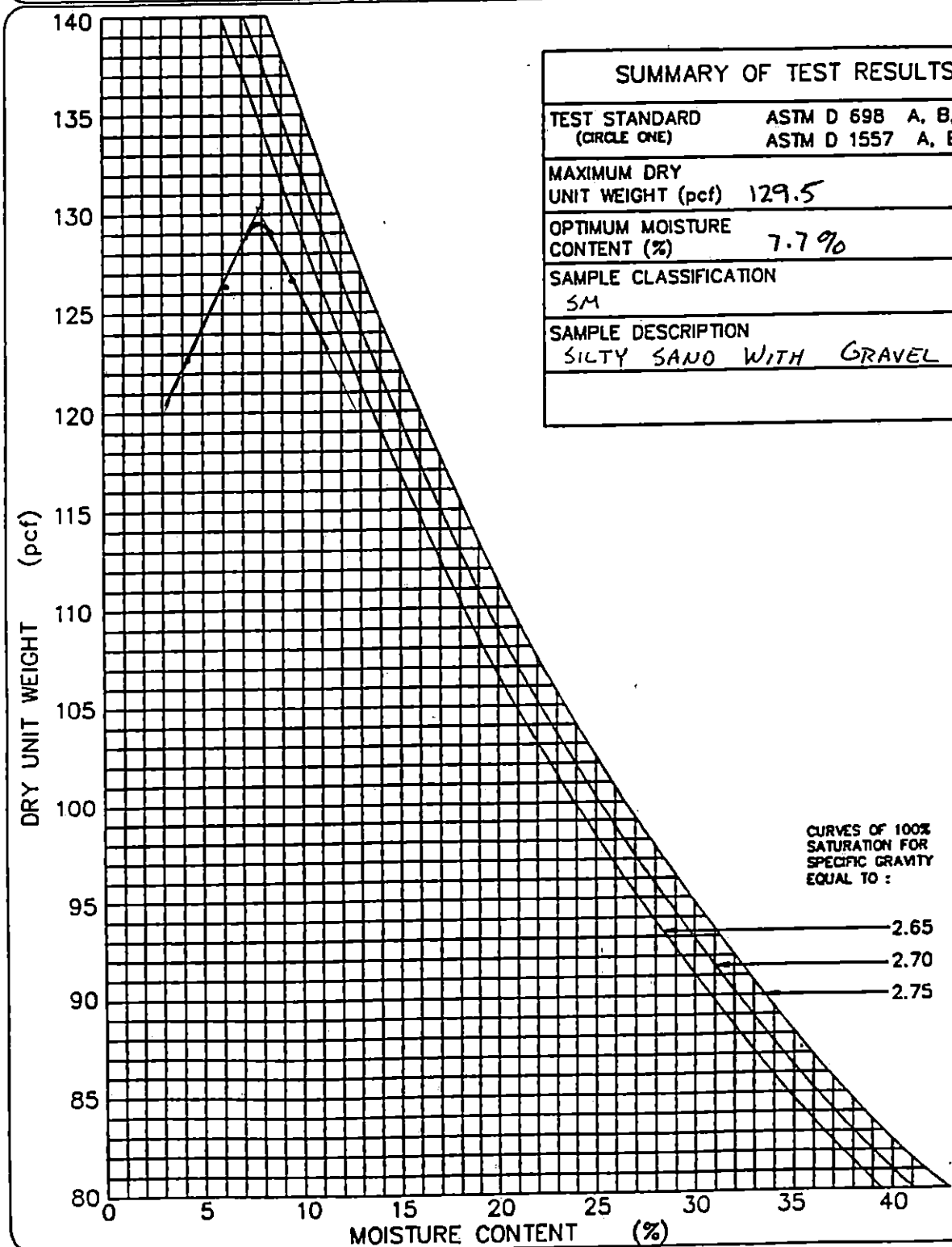
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-144 QA ID: 31R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.5
OPTIMUM MOISTURE CONTENT (%)	7.7%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 11/6 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-145 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1835.7	1663.1
WT. OF TARE	(grams)	17.7	16.1
WT. OF DRY SAMPLE	(grams)	1818.0	1647.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	92.7	5.1	94.9	
3/8"	9.5	158.3	8.7	91.3	
4	4.75	391.8	21.6	78.4	
10	2.0	596.7	32.8	67.2	
20	0.850	830.4	45.7	54.3	
40	0.425	1188.3	65.4	34.6	
60	0.250	1472.8	81.0	19.0	
100	0.150	1584.7	87.2	12.8	
200	0.075	1645.6	90.5	9.5	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

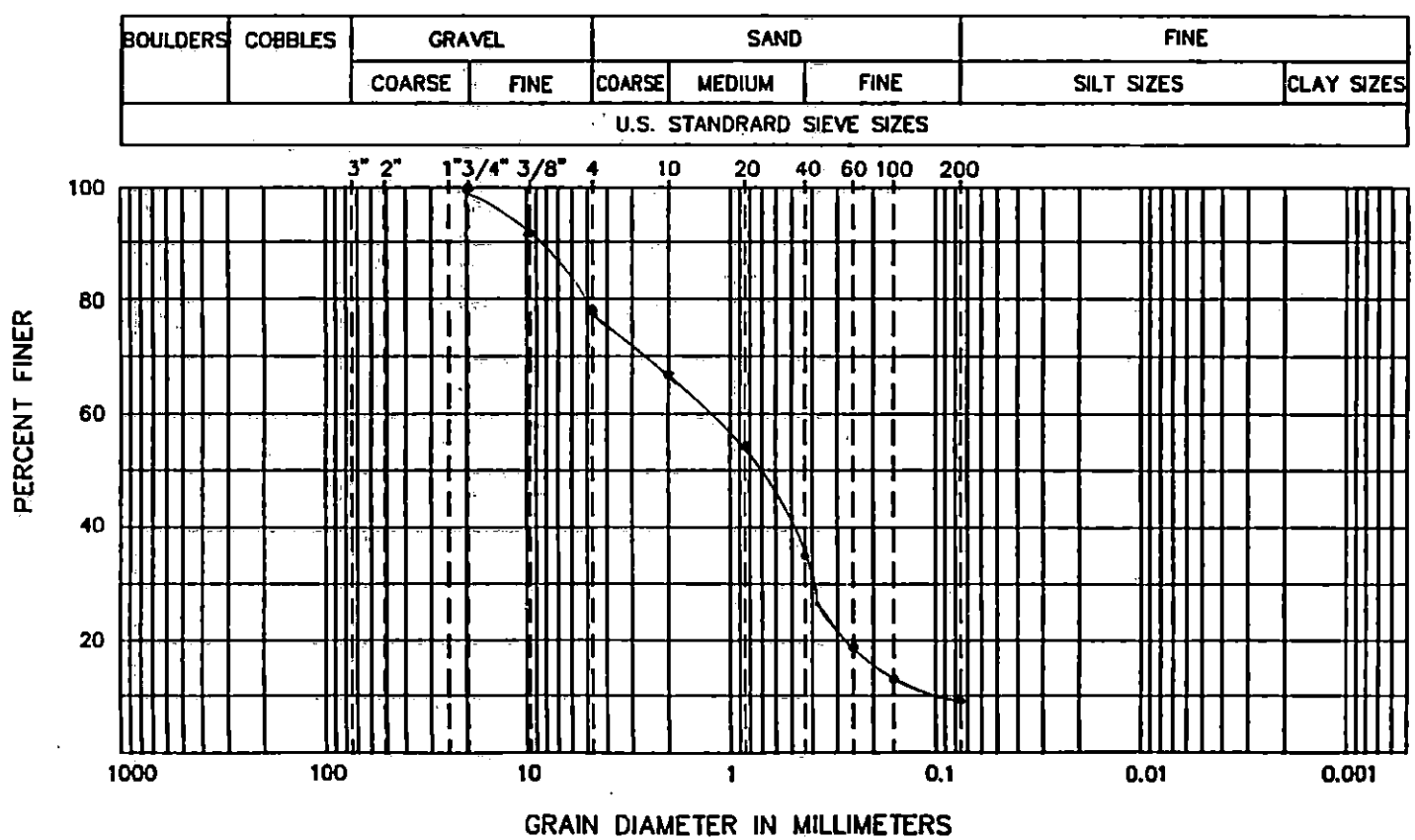
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-145 QA ID: DJR



CURVE COEFFICIENTS

(C_u) 12.0

(C_c) 1.2

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.9
3/8-in.	91.3
NO. 4	78.4
NO. 10	67.2
NO. 20	54.3
NO. 40	34.6
NO. 60	19.0
NO. 100	12.8
NO. 200	9.5

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 16 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-145 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10265	10590	10690	10660	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4420	4745	4845	4815	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.2	137.6	140.5	139.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.2	129.2	129.5	128.2	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	680.9	600.4	600.3	638.9	
H	WT. OF DRY SOIL & TARE	(grams)	654.4	564.2	554.1	587.2	
I	WT. OF WATER = G - H	(grams)	26.5	36.2	46.2	51.7	
J	WT. DRY SOIL = H - F	(grams)	646.4	556.2	546.0	578.9	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.1	6.5	8.5	8.9	

GeoSyntec Consultants

TOWN OF HUNTINGTON

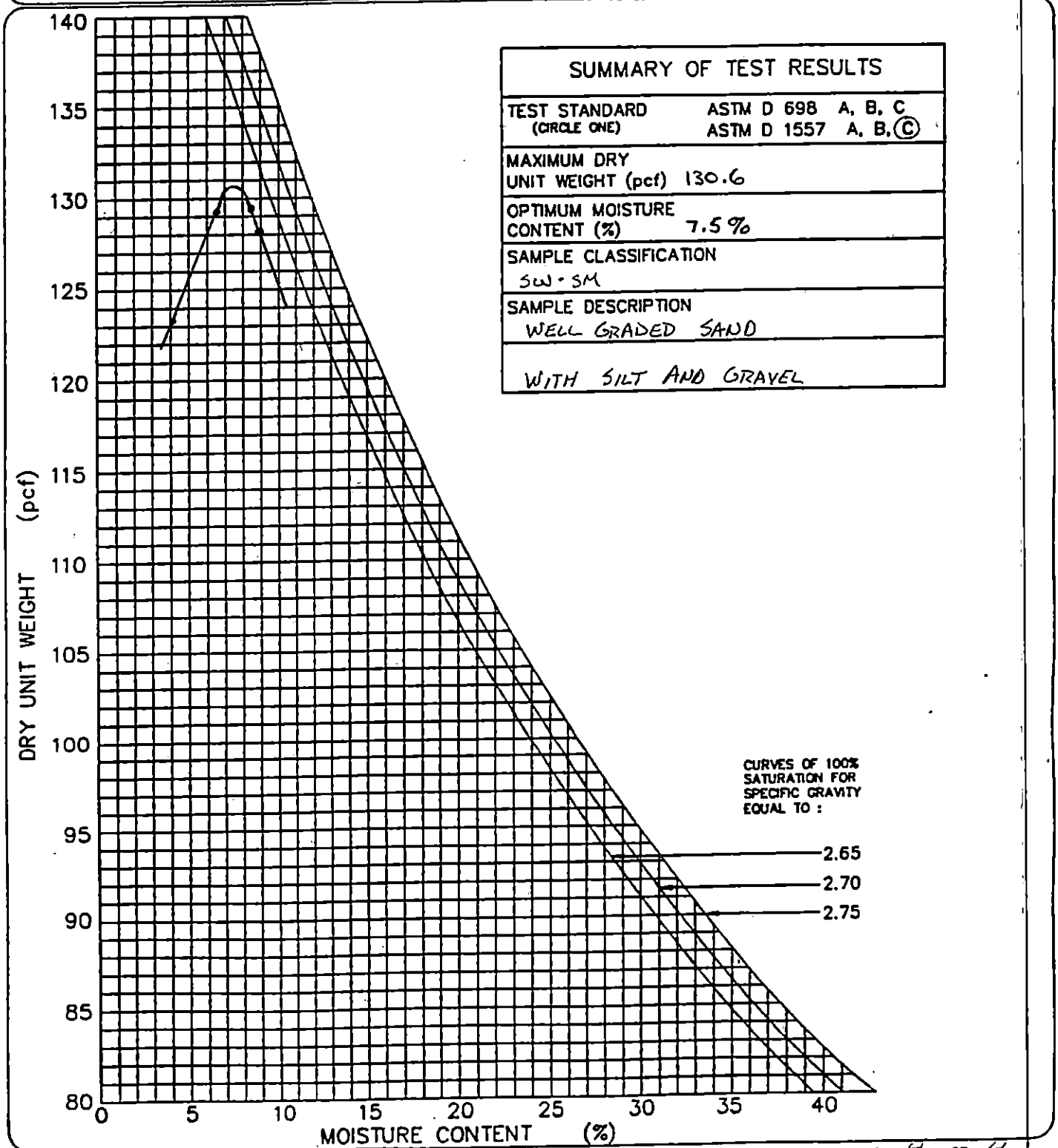
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-145 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	130.6
OPTIMUM MOISTURE CONTENT (%)	7.5%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-146 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	2018.1	1806.5
WT. OF TARE	(grams)	17.5	15.9
WT. OF DRY SAMPLE	(grams)	2000.6	1790.6

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	109.6	5.4	94.6	
3/8"	9.5	173.2	8.6	91.4	
4	4.75	375.8	18.7	81.3	
10	2.0	580.8	29.0	71.0	
20	0.850	836.0	41.7	58.3	
40	0.425	1269.6	63.5	36.5	
60	0.250	1609.3	80.4	19.6	
100	0.150	1734.4	86.7	13.3	
200	0.075	1785.8	89.3	10.7	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

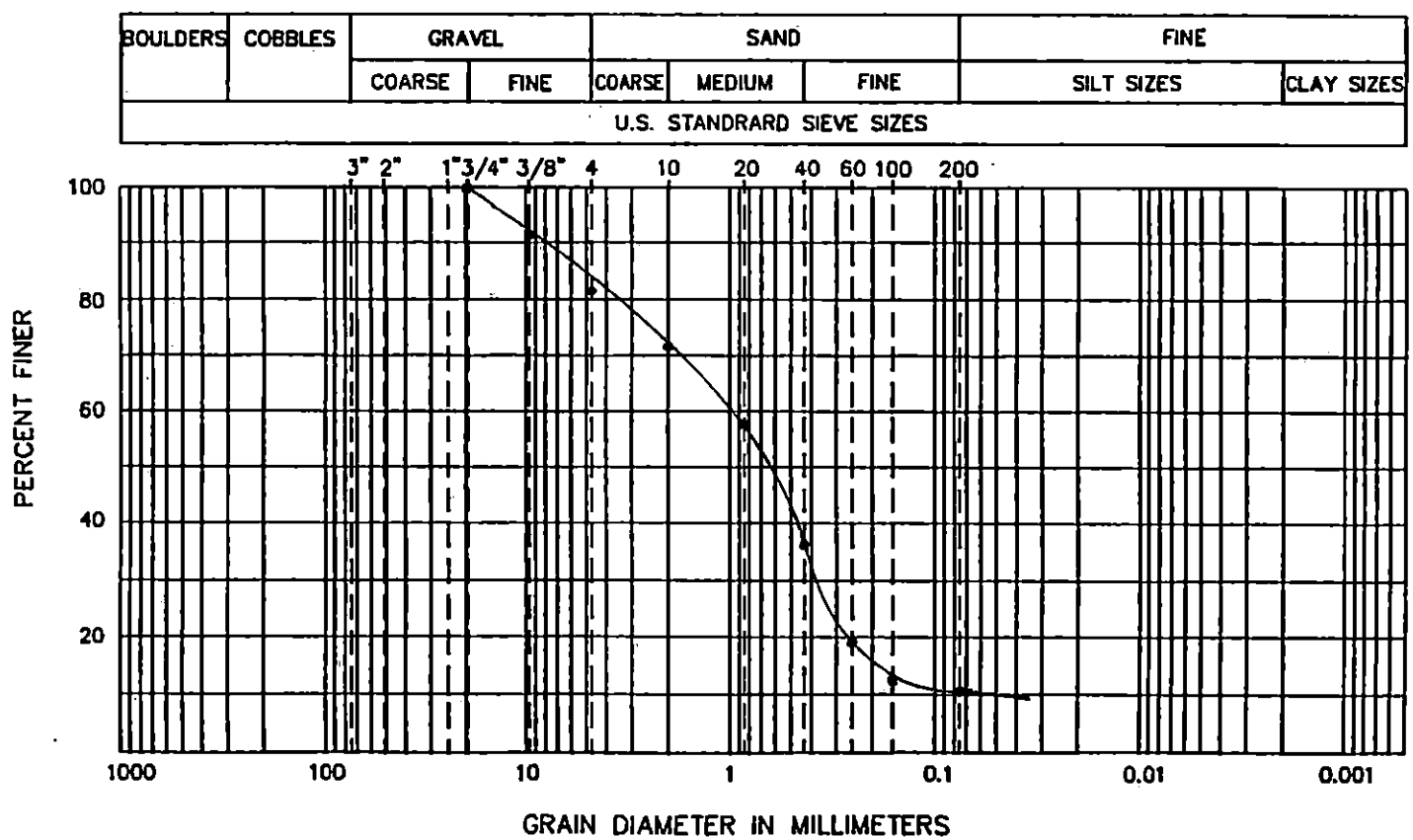
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 17 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-146 QA ID: DAR



CURVE COEFFICIENTS

(C_u) 20.0

(C_c) 3.0

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.6
3/8-in.	91.4
NO. 4	81.3
NO. 10	71.0
NO. 20	58.3
NO. 40	36.5
NO. 60	19.6
NO. 100	13.3
NO. 200	10.7

SOIL CLASSIFICATION (ASTM D 2487): SW-SM - WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 17 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-146 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10245	10510	10690	10650	
B	WT. OF MOLD	(grams)	5845	5845	5843	5845	
C	WT. OF SOIL = A − B	(grams)	4400	4665	4845	4805	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.6	135.3	140.5	139.3	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	127.6	126.7	129.5	126.8	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT − ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	665.8	574.4	595.3	699.4	
H	WT. OF DRY SOIL & TARE	(grams)	639.7	538.4	549.1	636.9	
I	WT. OF WATER = G − H	(grams)	26.1	36.0	46.2	62.5	
J	WT. DRY SOIL = H − F	(grams)	631.7	530.3	541.0	628.6	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.1	6.8	8.5	9.9	

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

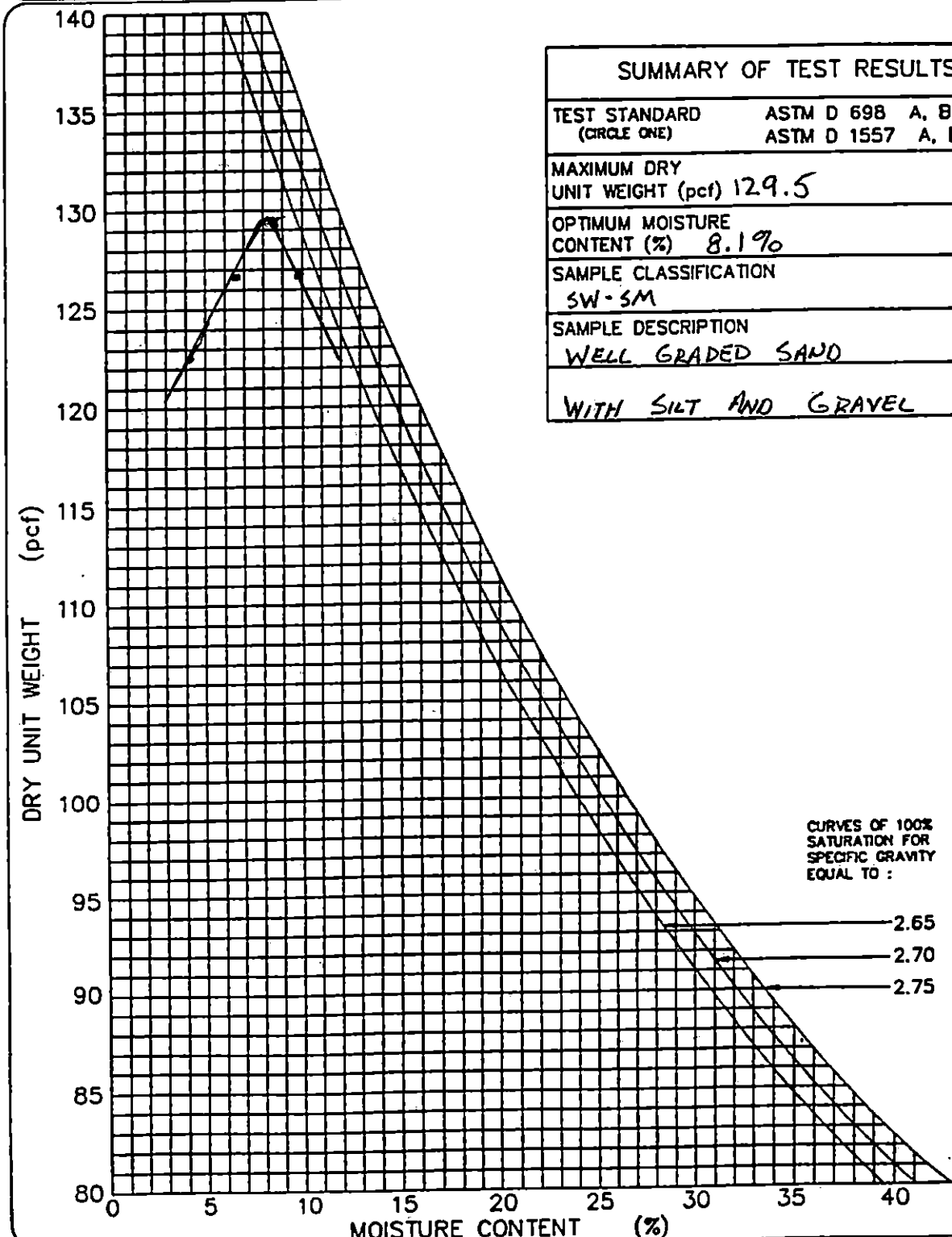
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-146 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	129.5
OPTIMUM MOISTURE CONTENT (%)	8.1%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 2074 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-147 QA ID: 21R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1946.6	1744.0
WT. OF TARE	(grams)	17.7	15.9
WT. OF DRY SAMPLE	(grams)	1928.9	1728.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	114.8	6.0	94.0	
3/8"	9.5	200.7	10.4	89.6	
4	4.75	377.5	19.6	80.4	
10	2.0	558.5	29.0	71.0	
20	0.850	813.6	42.2	57.8	
40	0.425	1243.3	64.5	35.5	
60	0.250	1567.9	81.3	18.7	
100	0.150	1680.3	87.1	12.9	
200	0.075	1725.3	89.4	10.6	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

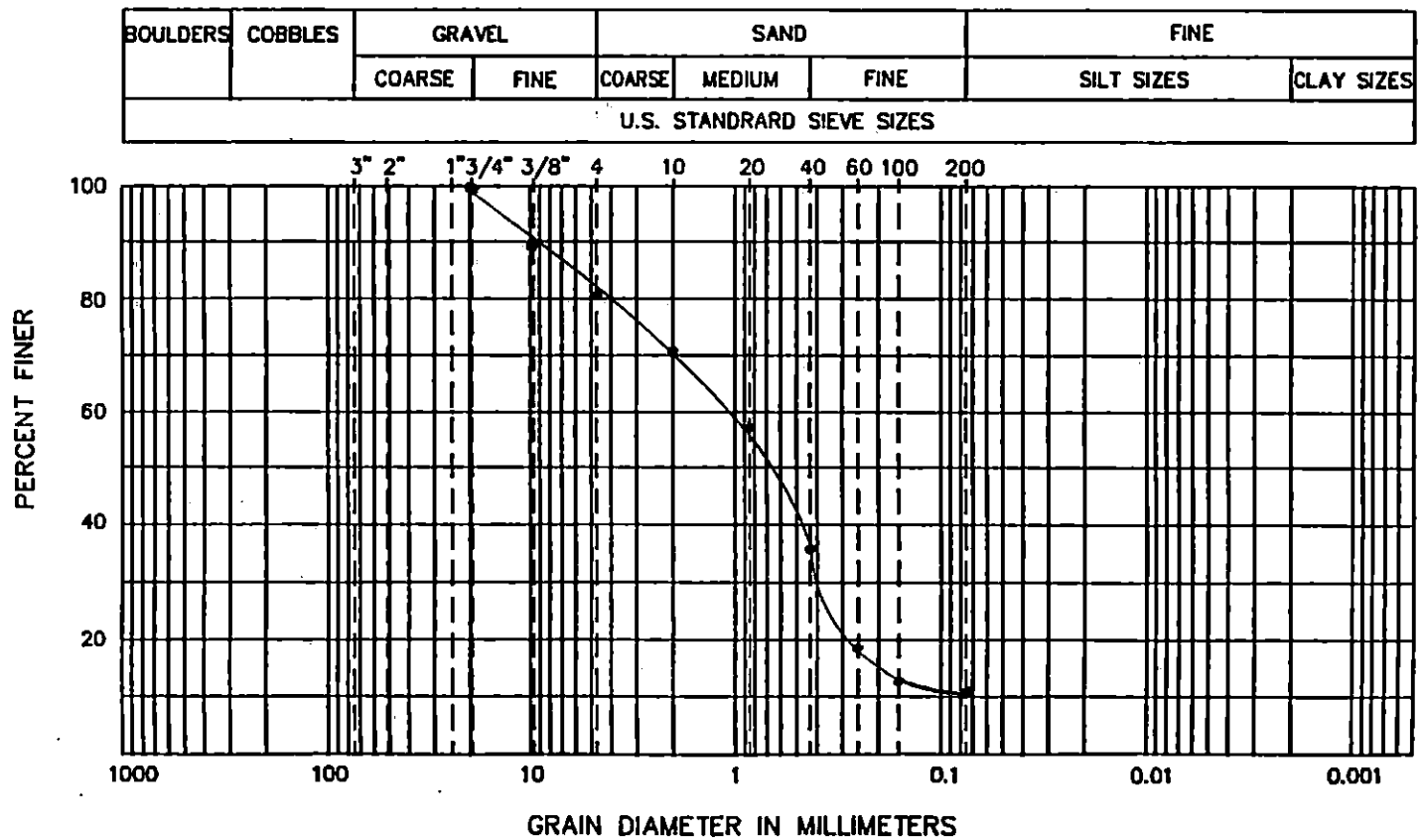
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 20 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-147 — QA ID: PAR



CURVE COEFFICIENTS

(C_u) 15.7

(C_c) 2.1

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.0
3/8-in.	89.6
NO. 4	80.4
NO. 10	71.0
NO. 20	57.8
NO. 40	35.5
NO. 60	18.7
NO. 100	12.9
NO. 200	10.6

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 20 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-147 — QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10240	10505	10680	10610	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A − B	(grams)	4395	4660	4835	4765	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.5	135.1	140.2	138.2	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.7	126.9	128.9	126.2	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT − ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.2	8.4	
G	WT. OF WET SOIL & TARE	(grams)	659.3	611.7	569.1	697.6	
H	WT. OF DRY SOIL & TARE	(grams)	634.9	574.9	523.7	637.9	
I	WT. OF WATER = G − H	(grams)	24.4	36.8	45.4	59.7	
J	WT. DRY SOIL = H − F	(grams)	626.9	566.9	515.5	629.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.9%	6.5%	8.8%	9.5%	

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TOWN OF HUNTINGTON

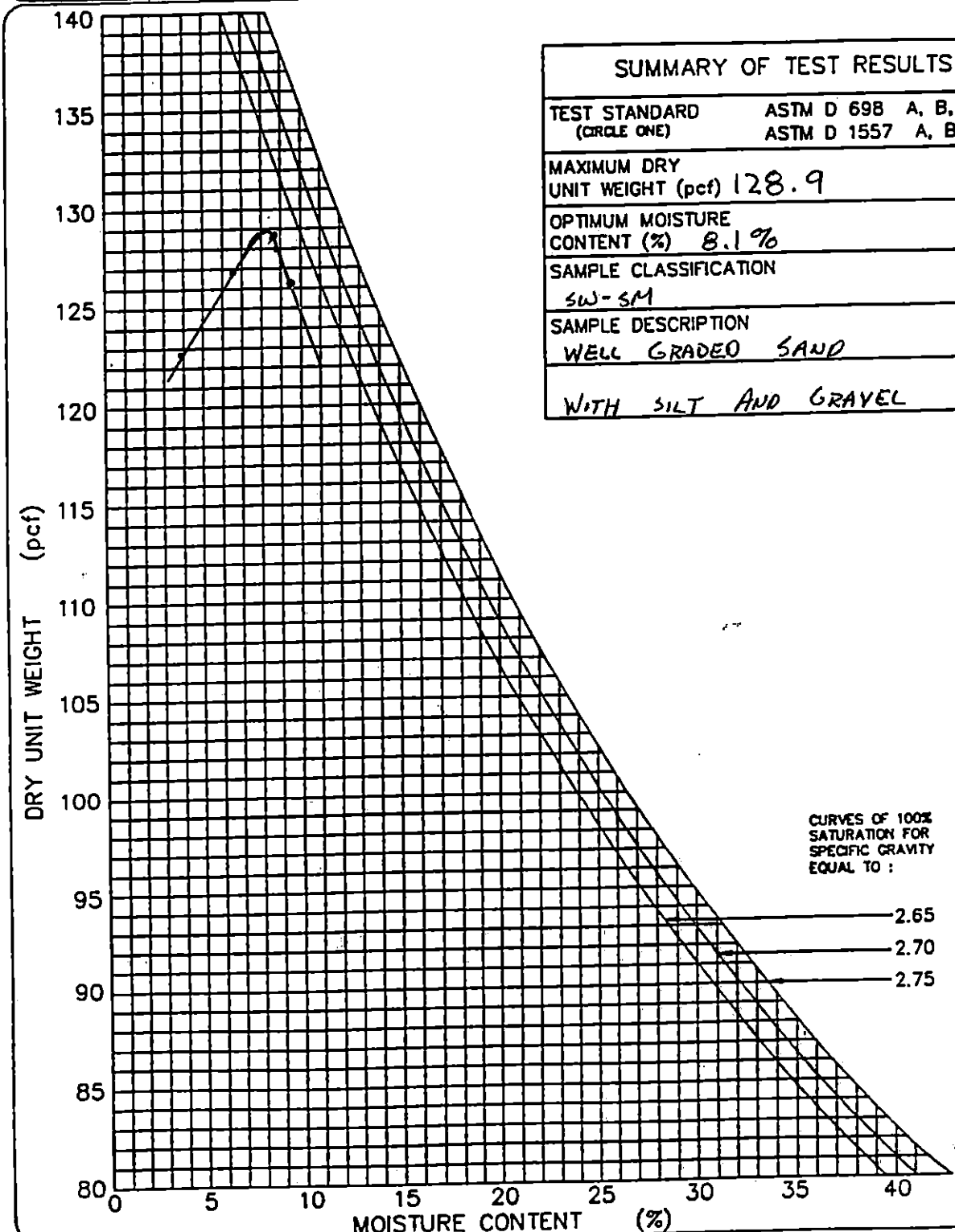
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-147 QA ID: DAR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.9
OPTIMUM MOISTURE CONTENT (%)	8.1%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-148 QA ID: D1R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1984.3	1793.8
WT. OF TARE	(grams)	17.8	16.0
WT. OF DRY SAMPLE	(grams)	1966.5	1777.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	118.6	6.0	94.0	
3/8"	9.5	192.1	9.8	90.2	
4	4.75	388.8	19.8	80.2	
10	2.0	599.1	30.5	69.5	
20	0.850	853.4	43.4	56.6	
40	0.425	1273.3	64.7	35.3	
60	0.250	1606.4	81.7	18.3	
100	0.150	1725.0	87.7	12.3	
200	0.075	1774.9	90.3	9.7	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

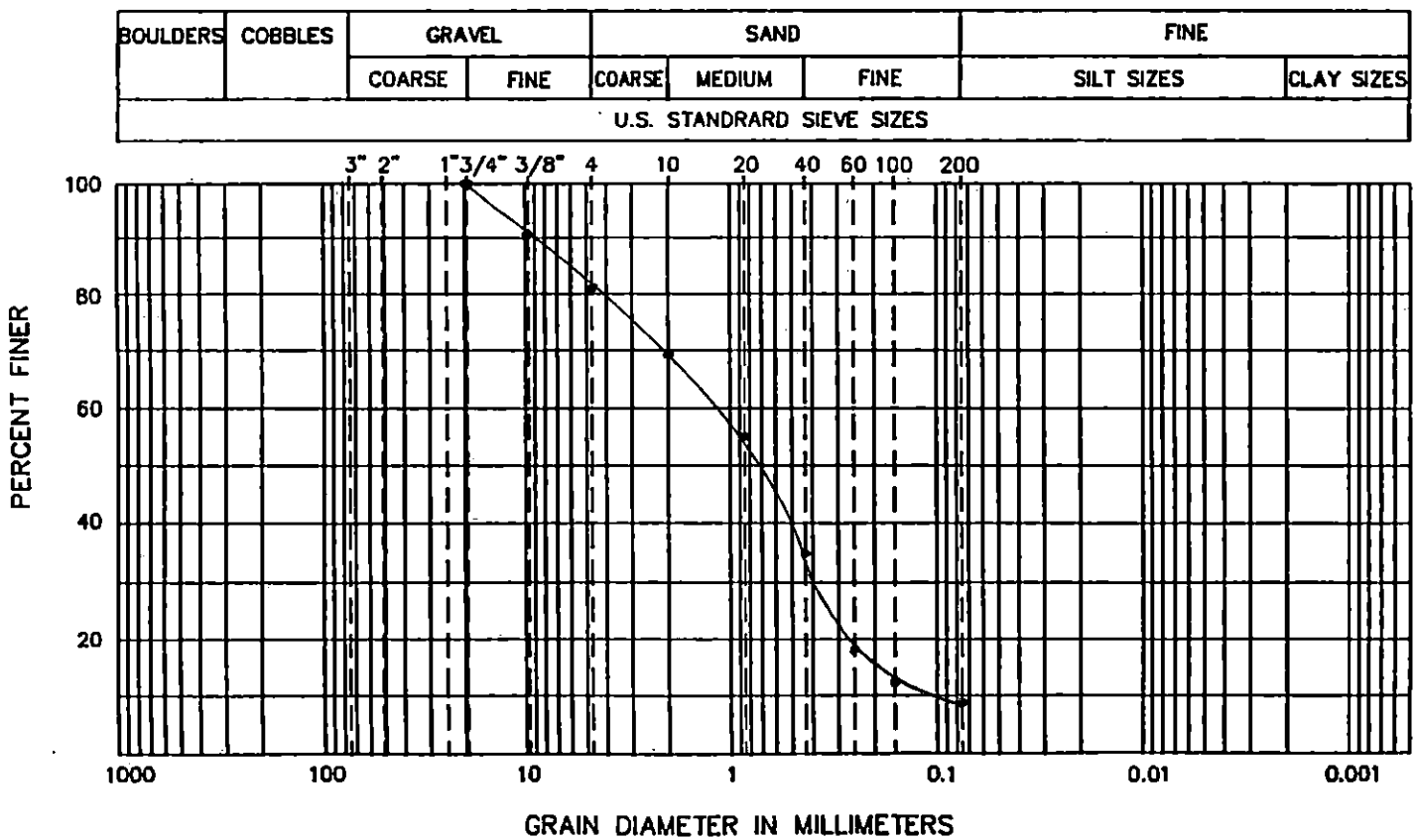
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 28 day 11 month 90 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-148 — QA ID: DJR



CURVE COEFFICIENTS

(C_U) 11.0

(C_C) 1.5

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	106.0
1/2-in.	94.0
3/8-in.	90.2
NO. 4	80.2
NO. 10	69.5
NO. 20	56.6
NO. 40	35.3
NO. 60	18.3
NO. 100	12.3
NO. 200	9.7

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-148 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10220	10526	10600	10580	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4375	4675	4755	4735	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	126.9	135.6	137.9	137.3	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.4	127.7	127.3	125.4	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.2	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	606.8	602.7	632.1	716.0	
H	WT. OF DRY SOIL & TARE	(grams)	585.4	567.8	584.5	654.8	
I	WT. OF WATER = G - H	(grams)	21.4	34.9	47.6	61.2	
J	WT. DRY SOIL = H - F	(grams)	577.4	559.6	576.4	646.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	3.7%	6.2%	8.3%	9.5%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

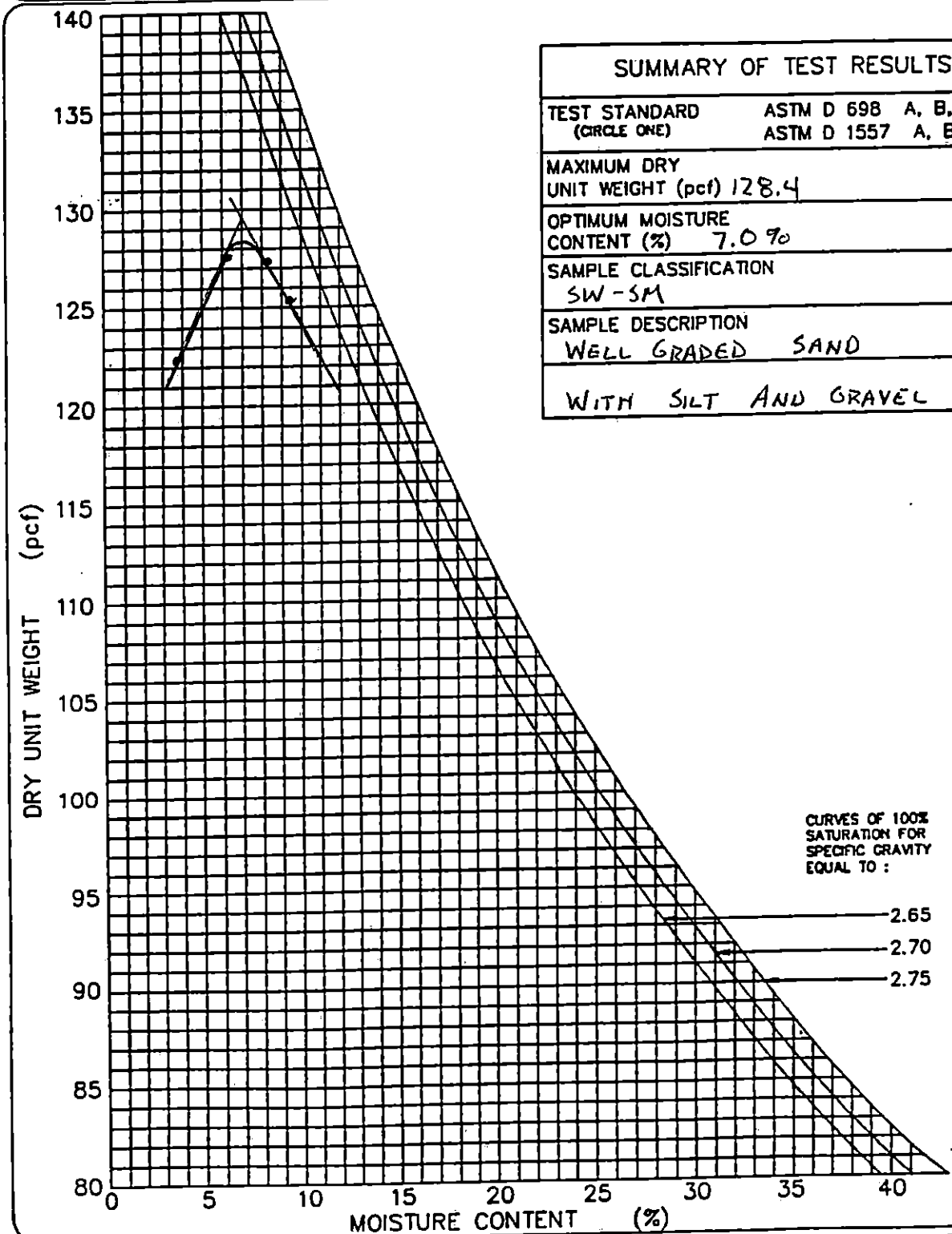
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-14B QA ID: DAR

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.4
OPTIMUM MOISTURE CONTENT (%)	7.0%
SAMPLE CLASSIFICATION	SW-SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-149 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1925.7	1737.3
WT. OF TARE	(grams)	17.5	16.0
WT. OF DRY SAMPLE	(grams)	1908.2	1721.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	85.2	4.5	95.5	
3/8"	9.5	169.9	8.9	91.1	
4	4.75	380.1	19.9	80.1	
10	2.0	587.1	30.8	69.2	
20	0.850	836.6	43.8	56.2	
40	0.425	1251.1	65.6	34.4	
60	0.250	1569.6	82.3	17.7	
100	0.150	1677.9	87.9	12.1	
200	0.075	1718.3	90.0	10.0	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

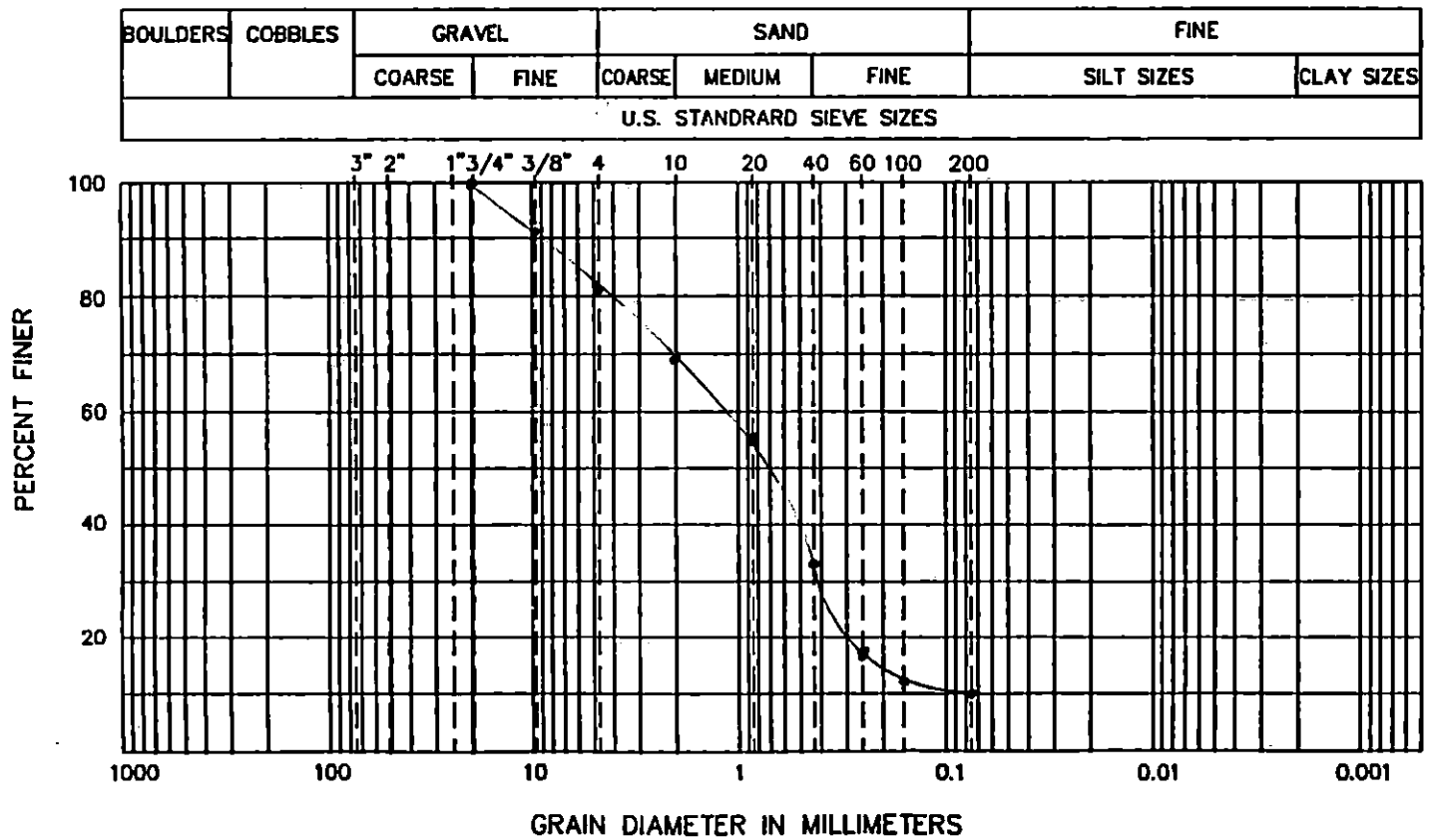
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-149 QA ID: JAR



CURVE COEFFICIENTS

(C_u) 14.7

(C_c) 2.0

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.5
3/8-in.	91.1
NO. 4	80.1
NO. 10	69.2
NO. 20	56.2
NO. 40	34.4
NO. 60	17.7
NO. 100	12.1
NO. 200	10.0

SOIL CLASSIFICATION (ASTM D 2487): SW-SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-149 QA ID: 2/17

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10242	10493	10648	10583	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4397	4648	4803	4738	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	127.5	134.8	139.3	137.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	122.5	126.7	128.0	124.9	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.2	8.3	
G	WT. OF WET SOIL & TARE	(grams)	564.1	665.5	694.8	714.5	
H	WT. OF DRY SOIL & TARE	(grams)	542.2	626.0	639.3	650.3	
I	WT. OF WATER = G - H	(grams)	21.9	39.5	55.5	64.2	
J	WT. DRY SOIL = H - F	(grams)	534.2	617.9	631.1	642.0	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.1%	6.4%	8.8%	10.0%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

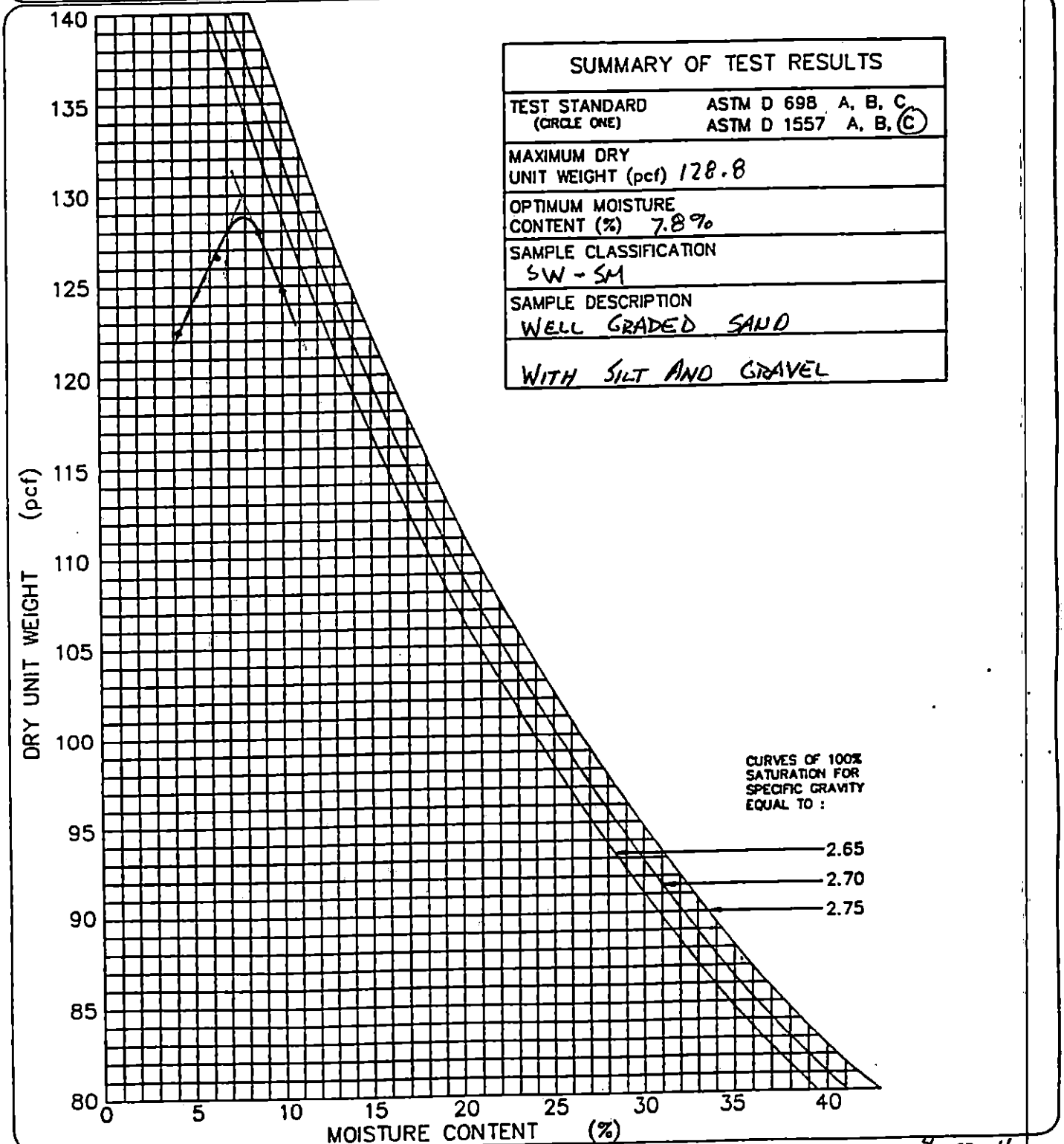
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 11 month 95 year

SOURCE: B. SCHNEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-149 QA ID: JJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.8
OPTIMUM MOISTURE CONTENT (%)	7.8%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-150 QA ID: D1R

SOIL SAMPLE SIZE (ASTM D 1140)

		NO. 10	NO. 4	3/4-in.
DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)			
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1983.2	1777.8
WT. OF TARE	(grams)	17.2	16.0
WT. OF DRY SAMPLE	(grams)	1966.0	1761.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	95.6	4.9	95.1	
3/8"	9.5	173.6	8.8	91.2	
4	4.75	388.8	19.8	80.2	
10	2.0	603.2	30.7	69.3	
20	0.850	857.1	43.6	56.4	
40	0.425	1271.0	64.6	35.4	
60	0.250	1593.2	81.0	19.0	
100	0.150	1710.1	87.0	13.0	
200	0.075	1758.6	89.5	10.5	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

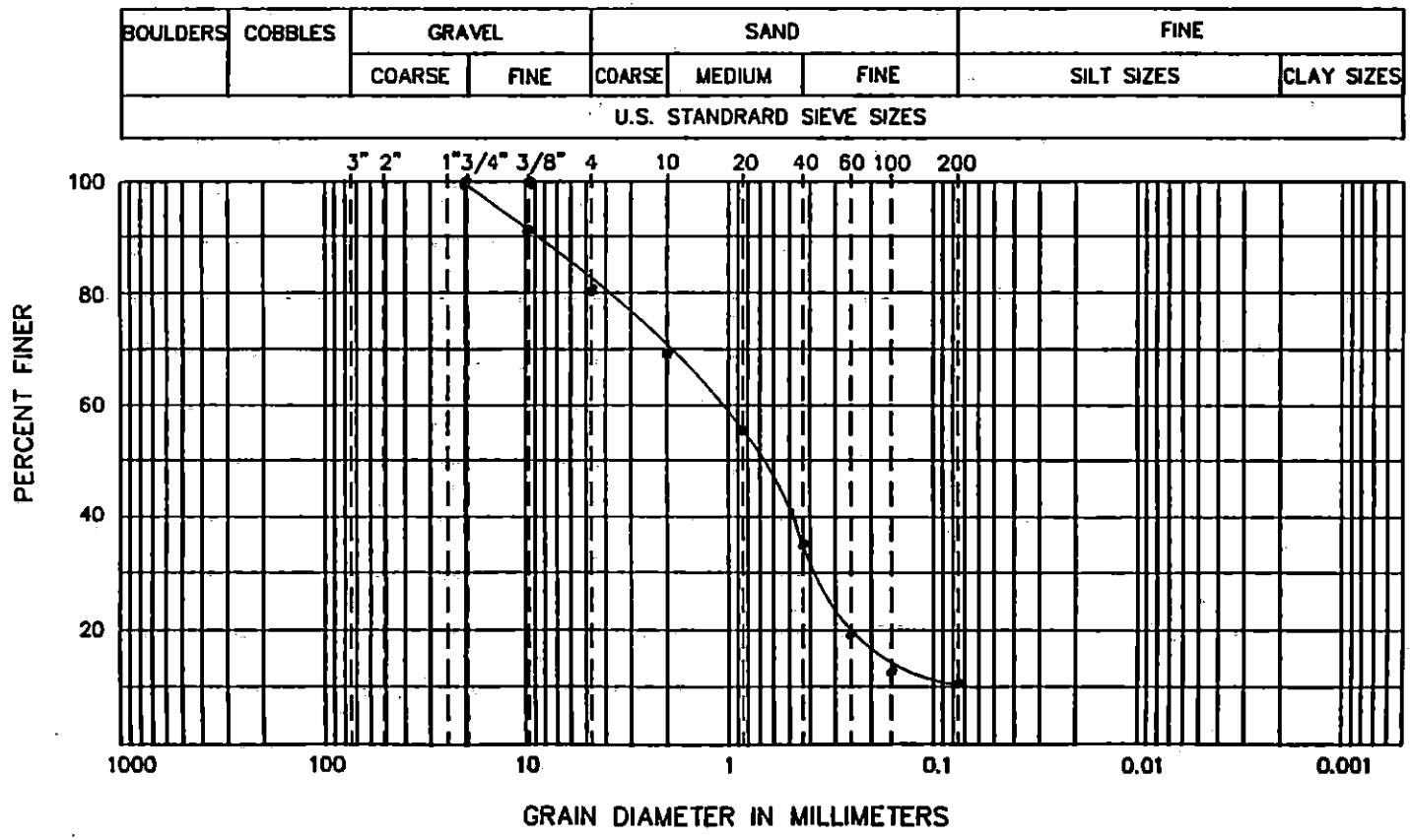
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-150 QA ID: 71R



CURVE COEFFICIENTS

(C_u) 14.3

(C_c) 2.2

ATTERBERG LIMITS

(LL)

(PL)

(PI)

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.1
3/8-in.	91.2
NO. 4	80.2
NO. 10	69.3
NO. 20	56.4
NO. 40	35.4
NO. 60	19.0
NO. 100	13.0
NO. 200	10.5

SOIL CLASSIFICATION (ASTM D 2487): SW - SM WELL GRADED SAND WITH SILT AND GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-150 QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10307	10479	10590	10552	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4462	4634	4745	4707	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.4	134.4	137.6	136.5	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.2	126.9	126.9	124.3	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.0	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	593.1	657.9	666.2	712.4	
H	WT. OF DRY SOIL & TARE	(grams)	569.5	621.7	615.2	649.6	
I	WT. OF WATER = G - H	(grams)	23.6	36.2	51.0	62.8	
J	WT. DRY SOIL = H - F	(grams)	561.4	613.7	607.2	641.3	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.2 %	5.9 %	8.4 %	9.8 %	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

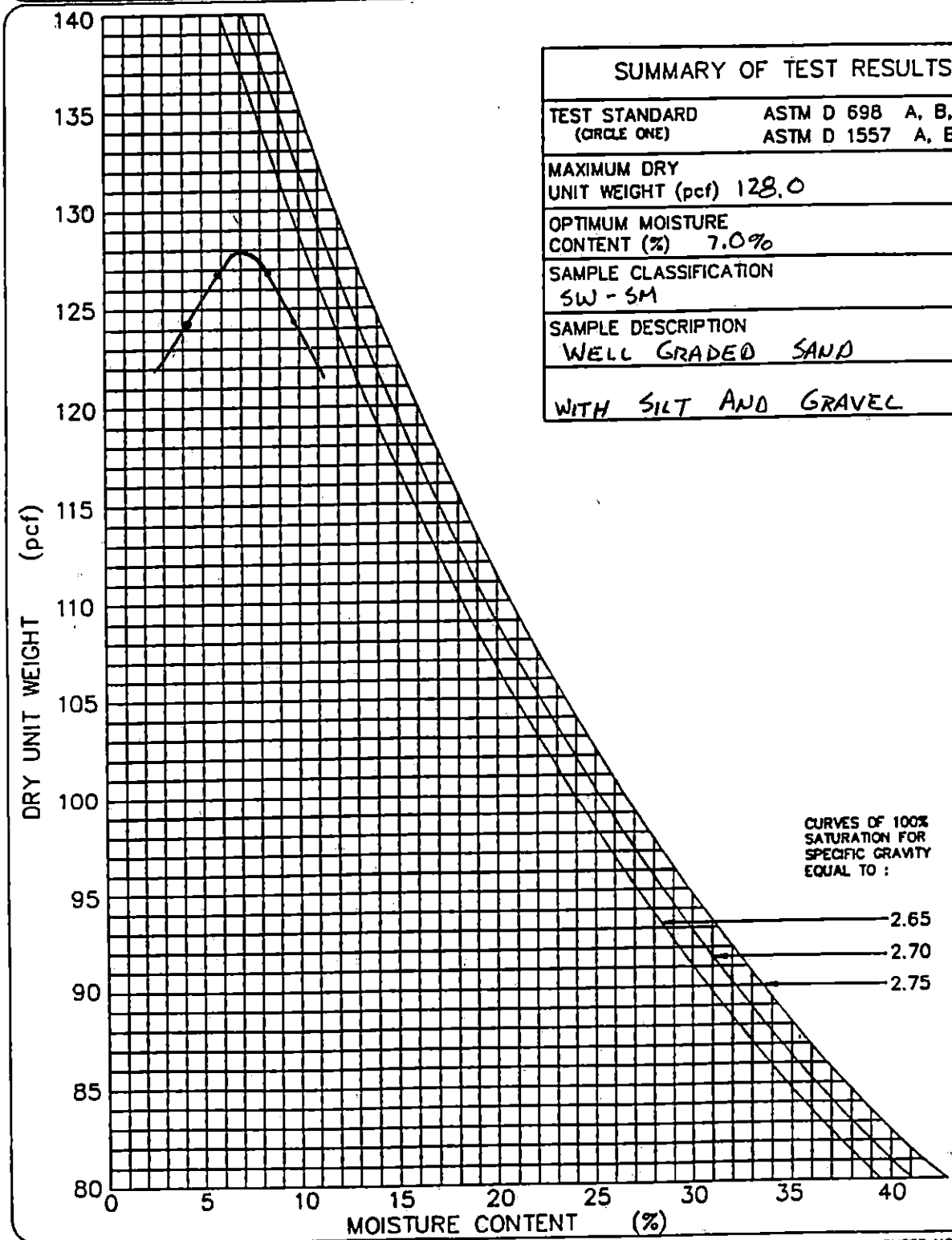
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-150 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.0
OPTIMUM MOISTURE CONTENT (%)	7.0%
SAMPLE CLASSIFICATION	SW - SM
SAMPLE DESCRIPTION	WELL GRADED SAND WITH SILT AND GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-151 QA ID: D/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1880.3	1651.3
WT. OF TARE	(grams)	16.9	17.4
WT. OF DRY SAMPLE	(grams)	1863.4	1633.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	85.7	4.6	95.4	
3/8"	9.5	184.5	9.9	90.1	
4	4.75	367.1	19.7	80.3	
10	2.0	523.6	28.1	71.9	
20	0.850	814.3	43.7	56.3	
40	0.425	1244.8	66.8	33.2	
60	0.250	1488.9	79.9	20.1	
100	0.150	1557.8	83.6	16.4	
200	0.075	1632.3	87.6	12.4	

%FINER = 100 − Σ% RETAINED

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GeoSyntec Consultants

TOWN OF HUNTINGTON

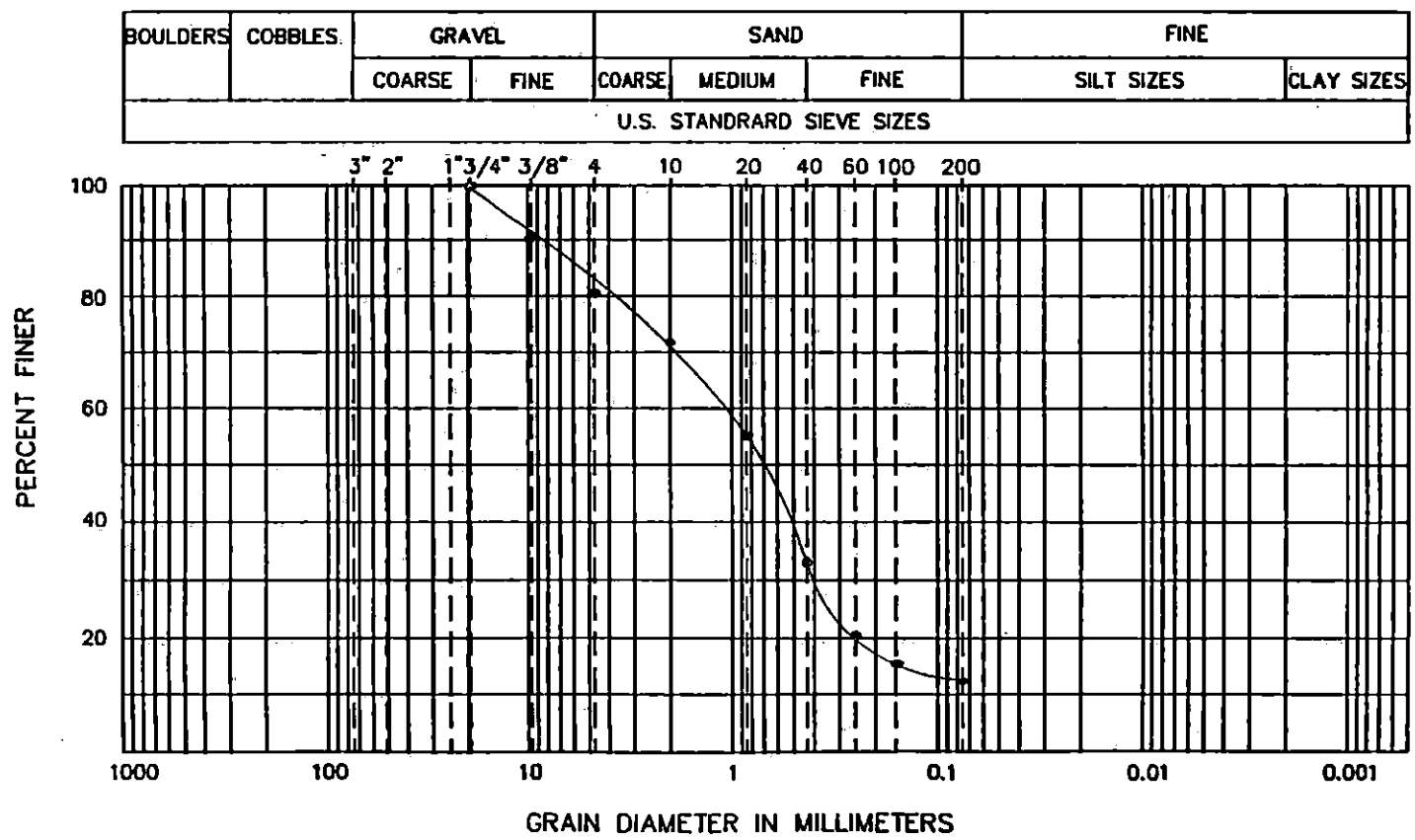
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 10 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-151 QA ID: DJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.4
3/8-in.	90.1
NO. 4	80.3
NO. 10	71.9
NO. 20	56.3
NO. 40	33.2
NO. 60	20.1
NO. 100	16.4
NO. 200	12.4

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 24 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-151 — QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10286	10462	10648	10579	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4441	4617	4803	4734	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.8	133.9	139.3	137.3	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.4	126.2	127.9	124.7	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	7.9	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	654.3	673.5	688.5	703.7	
H	WT. OF DRY SOIL & TARE	(grams)	627.1	635.2	635.2	639.9	
I	WT. OF WATER = G - H	(grams)	27.2	38.3	38.3	63.8	
J	WT. DRY SOIL = H - F	(grams)	619.2	627.3	627.3	631.7	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.4%	6.1%	8.9%	10.1%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

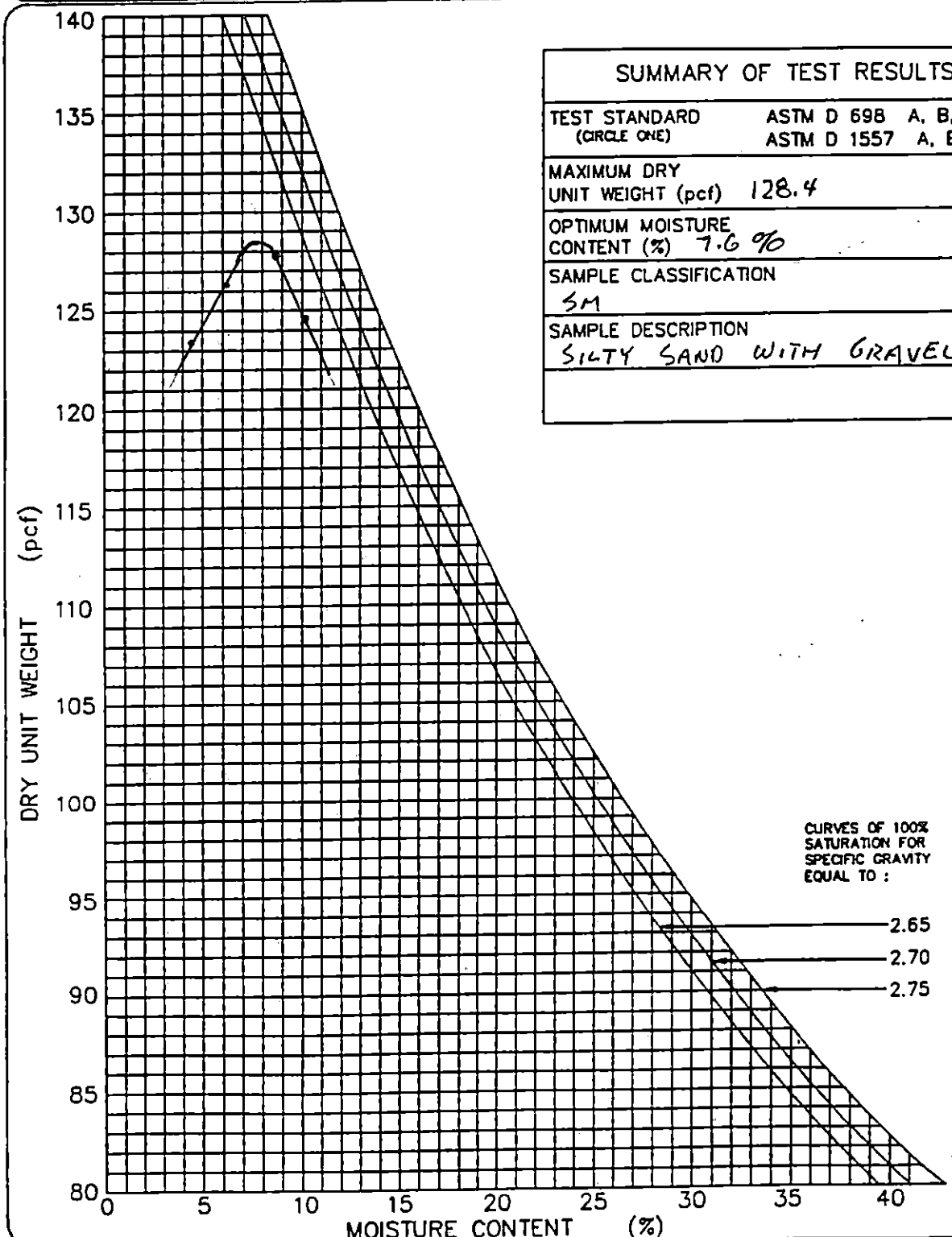
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-151 QA ID: 21R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.4
OPTIMUM MOISTURE CONTENT (%)	7.6 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-152 QA ID: P/R

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1989.5	1749.6
WT. OF TARE	(grams)	18.1	17.4
WT. OF DRY SAMPLE	(grams)	1971.4	1732.2

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	116.3	5.9	94.1	
3/8"	9.5	210.9	10.7	89.3	
4	4.75	410.1	20.8	79.2	
10	2.0	624.9	31.7	68.3	
20	0.850	893.0	45.3	54.7	
40	0.425	1316.9	66.8	33.2	
60	0.250	1614.6	81.9	18.1	
100	0.150	1703.3	86.4	13.6	
200	0.075	1730.9	87.8	12.2	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

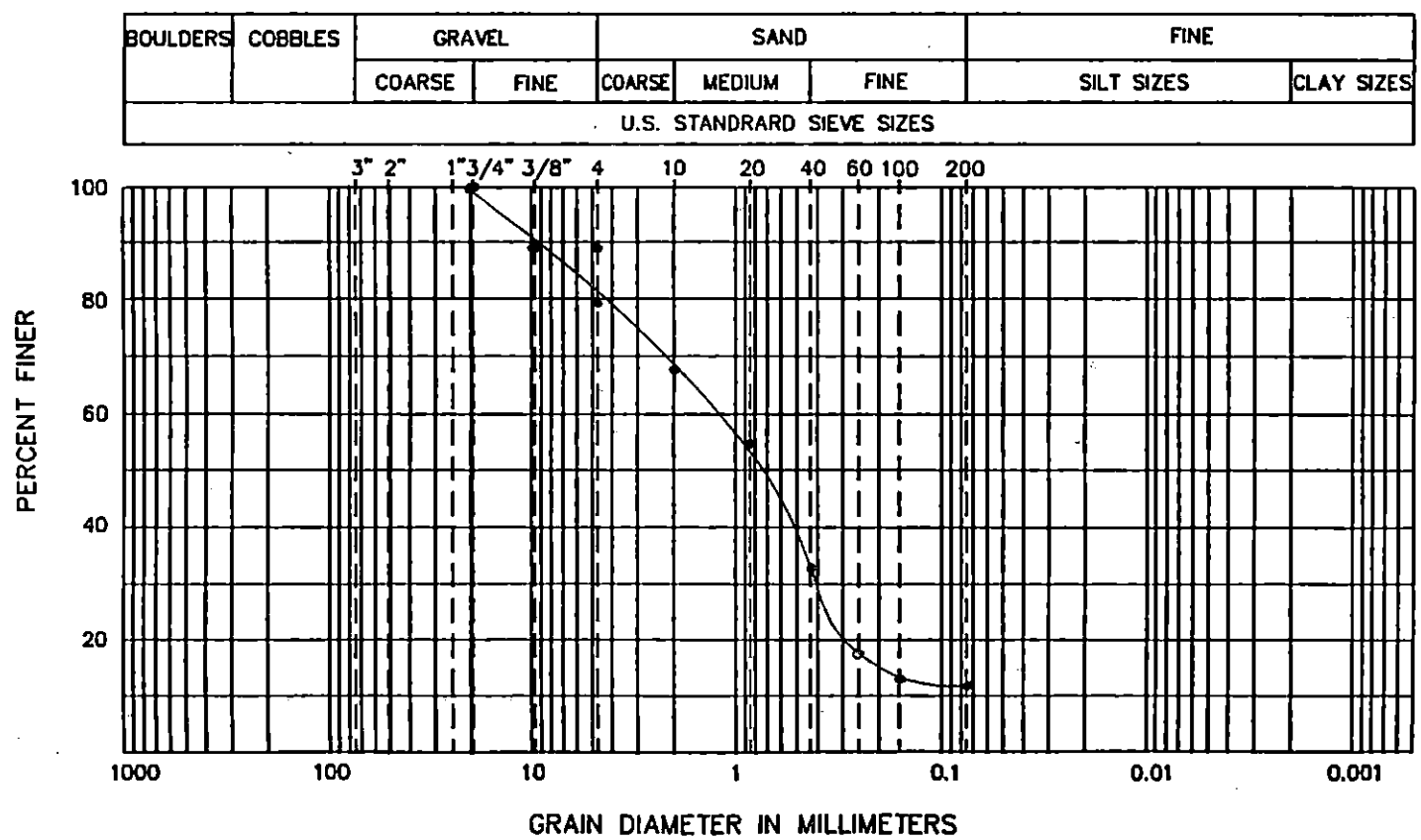
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-152 QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.1
3/8-in.	89.3
NO. 4	79.2
NO. 10	68.3
NO. 20	54.7
NO. 40	33.2
NO. 60	18.1
NO. 100	13.6
NO. 200	12.2

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 11 month 85 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-152 QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10324	10466	10593	10555	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4479	4621	4748	4710	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.9	134.0	137.7	136.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.2	126.7	127.5	124.4	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	7.9	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	708.9	675.8	677.9	698.5	
H	WT. OF DRY SOIL & TARE	(grams)	678.1	639.2	628.3	636.9	
I	WT. OF WATER = G - H	(grams)	30.8	36.6	49.6	61.6	
J	WT. DRY SOIL = H - F	(grams)	670.1	631.3	620.2	628.6	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.6%	5.8%	8.0%	9.8%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

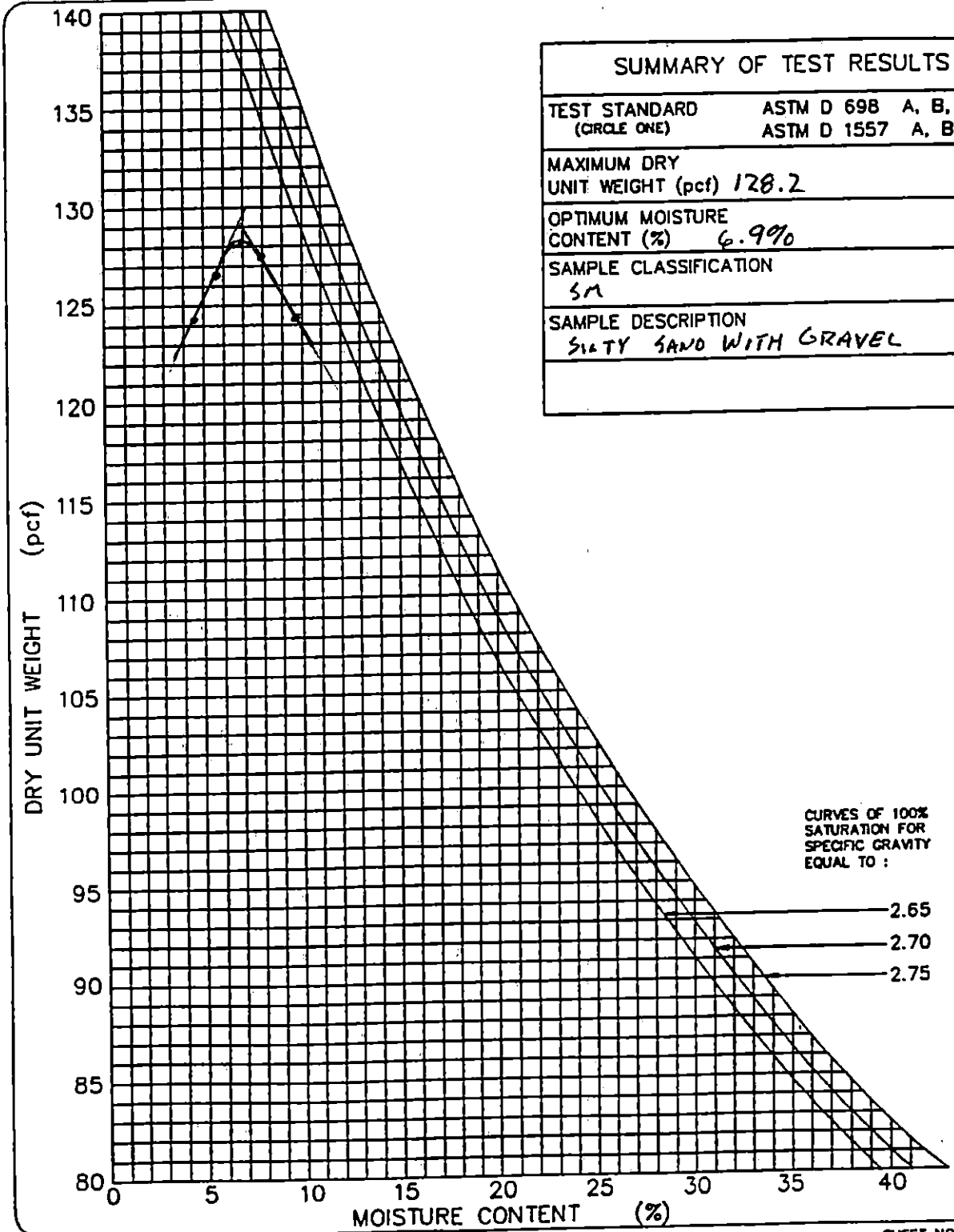
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-152 QA ID: >1R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.2
OPTIMUM MOISTURE CONTENT (%)	6.9%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-153 QA ID: 2

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1900.5	1670.9
WT. OF TARE	(grams)	17.1	17.5
WT. OF DRY SAMPLE	(grams)	1883.4	1653.4

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	77.2	4.1	95.9	
3/8"	9.5	212.8	11.3	88.7	
4	4.75	389.9	20.7	79.3	
10	2.0	589.5	31.3	68.7	
20	0.850	839.9	44.6	55.4	
40	0.425	1214.8	64.5	35.5	
60	0.250	1533.1	81.4	18.6	
100	0.150	1599.0	84.9	15.1	
200	0.075	1651.7	87.7	12.3	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

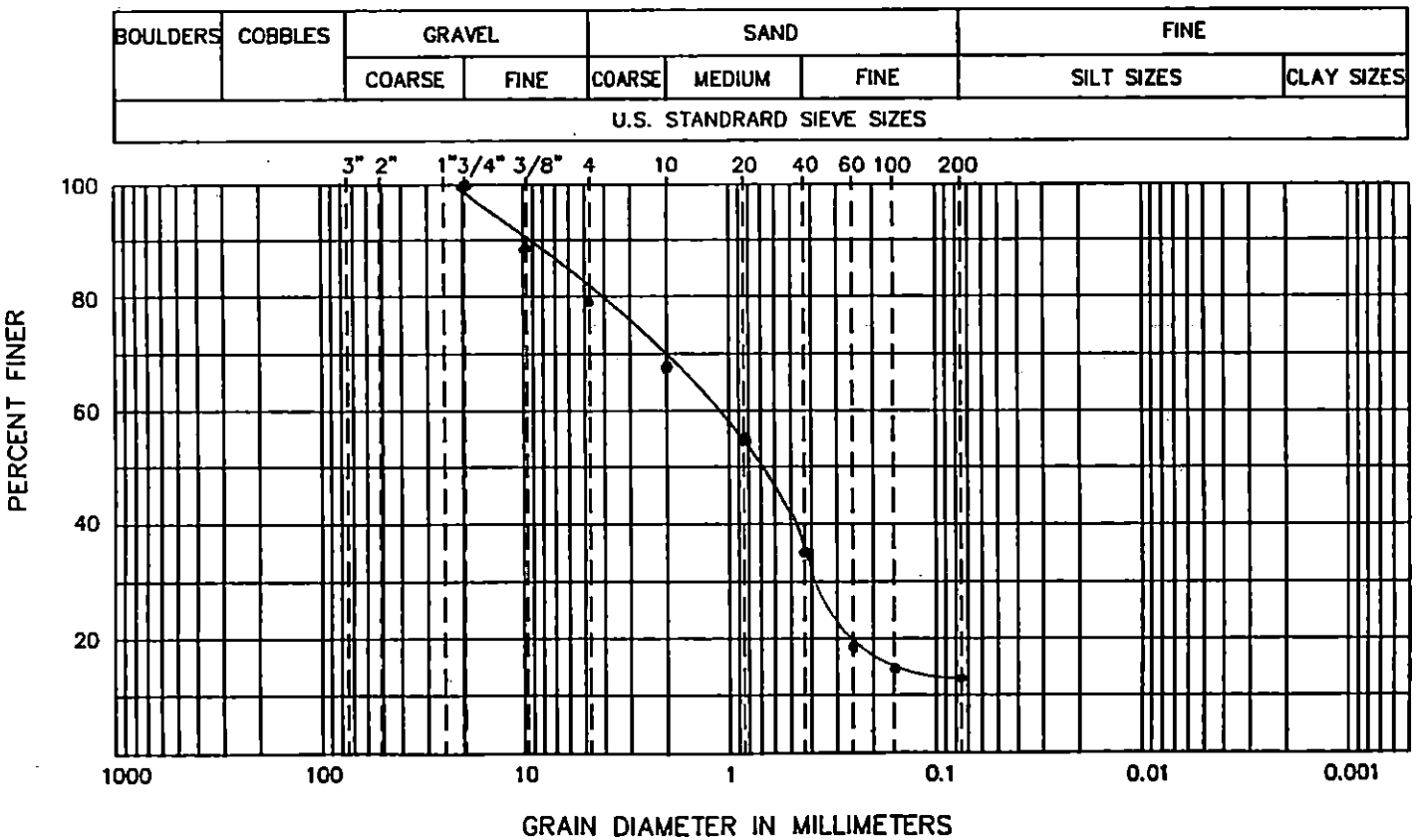
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-153 QA ID: 3/R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.9
3/8-in.	88.7
NO. 4	79.3
NO. 10	68.7
NO. 20	55.4
NO. 40	35.5
NO. 60	18.6
NO. 100	15.1
NO. 200	12.3

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 27 day 11 month 95 year

SAMPLE NO.: S-153 QA ID: 21R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10286	10638	10645	10586	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4441	4793	4800	4741	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.8	136.0	139.2	137.5	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.1	127.3	127.9	125.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL. THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.1	8.2	
G	WT. OF WET SOIL & TARE	(grams)	666.2	692.9	701.8	723.9	
H	WT. OF DRY SOIL & TARE	(grams)	637.8	649.3	645.7	659.9	
I	WT. OF WATER = G - H	(grams)	28.9	43.6	56.1	64.5	
J	WT. DRY SOIL = H - F	(grams)	629.3	641.2	637.6	651.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.6%	6.8%	8.8%	9.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

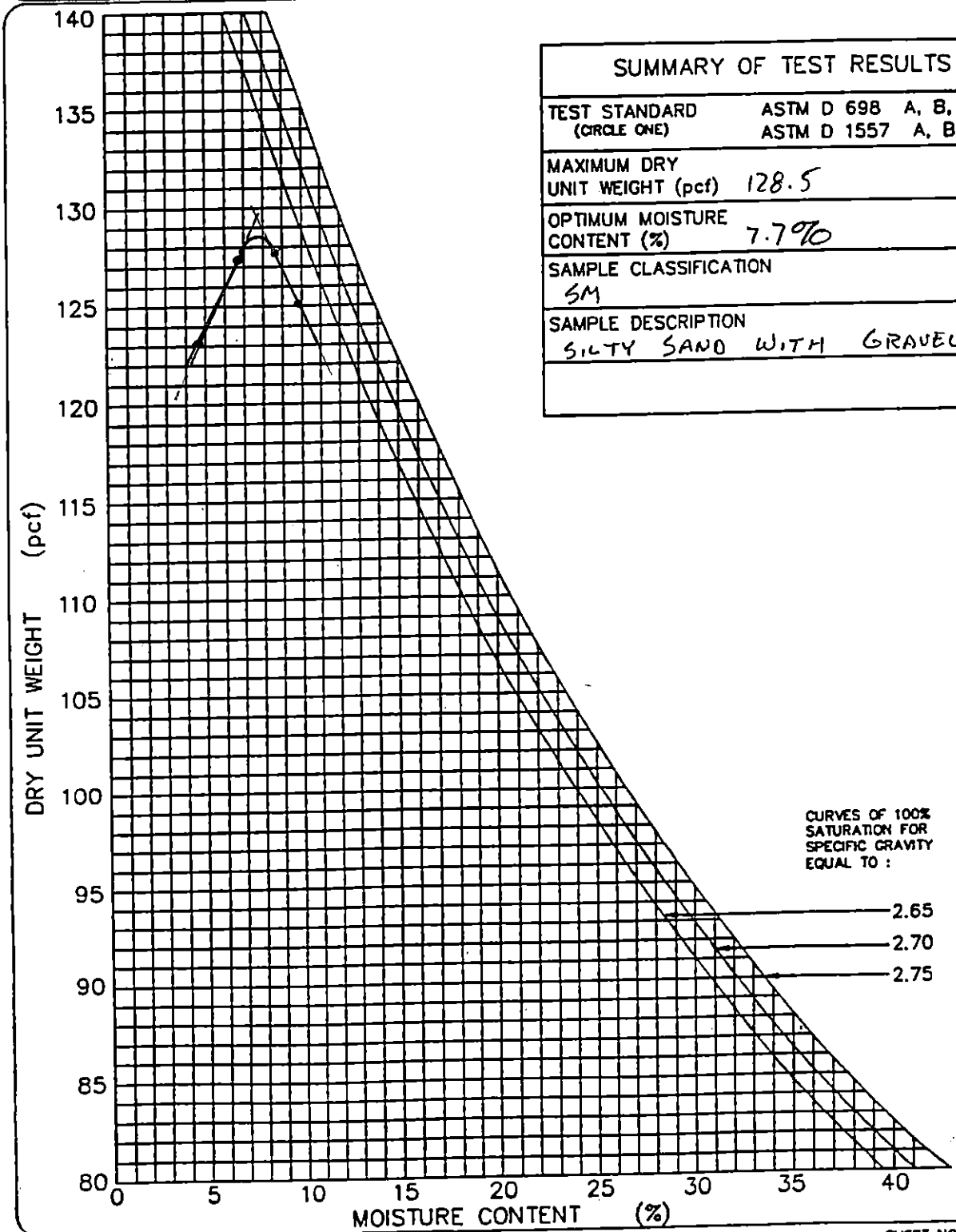
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-153 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.5
OPTIMUM MOISTURE CONTENT (%)	7.7%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 01 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-154 QA ID: JR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1693.1	1487.2
WT. OF TARE	(grams)	16.9	17.2
WT. OF DRY SAMPLE	(grams)	1676.2	1470.0

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	63.7	3.8	96.2	
3/8"	9.5	165.9	9.9	90.1	
4	4.75	338.6	20.2	79.8	
10	2.0	496.1	29.6	70.4	
20	0.850	750.9	44.8	55.2	
40	0.425	1104.6	65.9	34.1	
60	0.250	1324.2	79.0	21.0	
100	0.150	1423.1	84.9	15.1	
200	0.075	1468.4	87.6	12.4	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

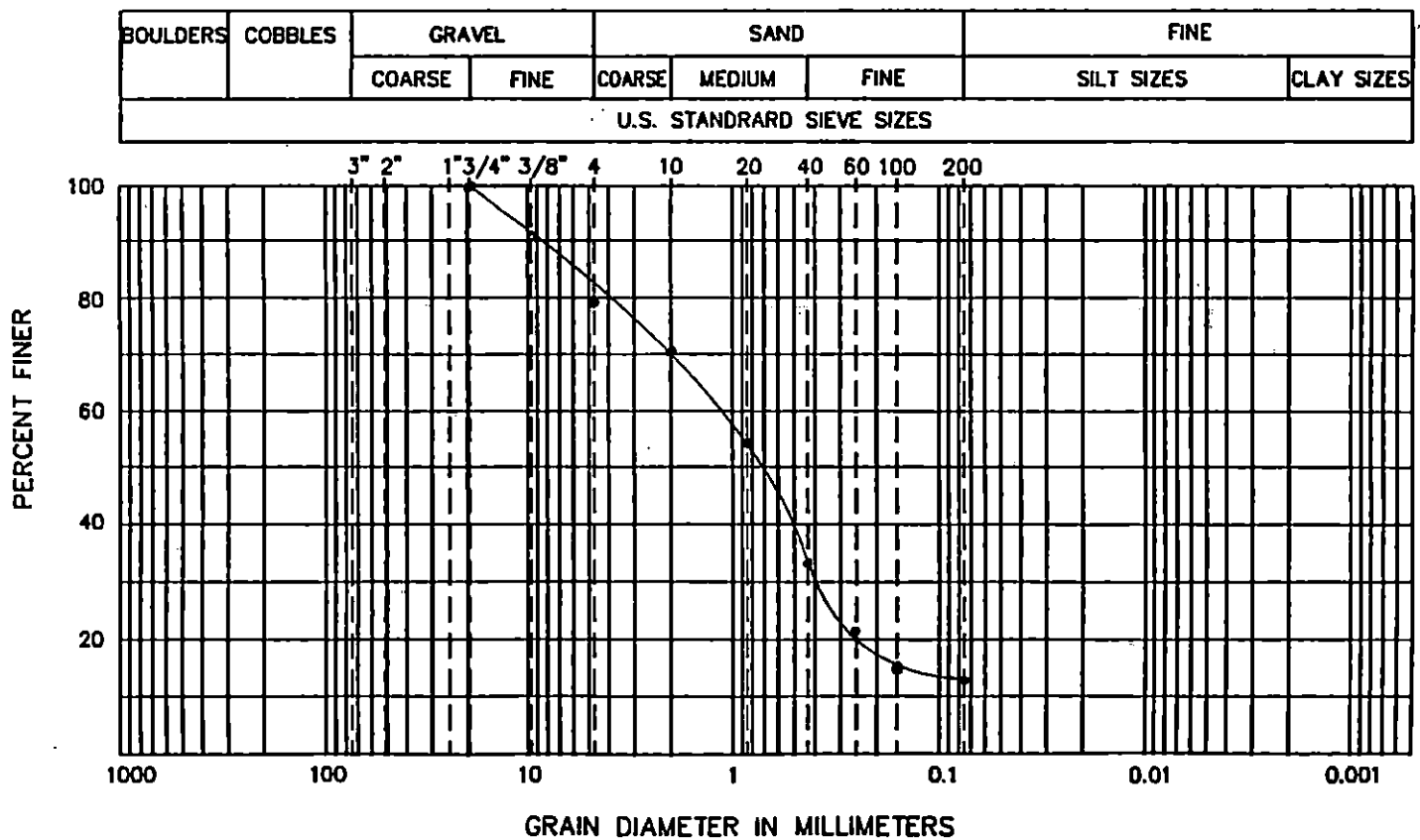
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-154 QA ID: DJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	96.2
3/8-in.	90.1
NO. 4	79.8
NO. 10	70.4
NO. 20	55.2
NO. 40	34.1
NO. 60	21.0
NO. 100	15.1
NO. 200	12.4

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-154 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10335	10514	10579	10548	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4490	4669	4734	4703	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.2	135.4	137.3	136.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.7	127.4	126.5	124.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.2	8.4	
G	WT. OF WET SOIL & TARE	(grams)	648.0	677.6	680.1	704.5	
H	WT. OF DRY SOIL & TARE	(grams)	621.0	637.9	627.5	641.8	
I	WT. OF WATER = G - H	(grams)	27.0	39.7	52.6	62.7	
J	WT. DRY SOIL = H - F	(grams)	613.0	629.9	619.3	633.4	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.4%	6.3%	8.5%	9.9%	

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TOWN OF HUNTINGTON

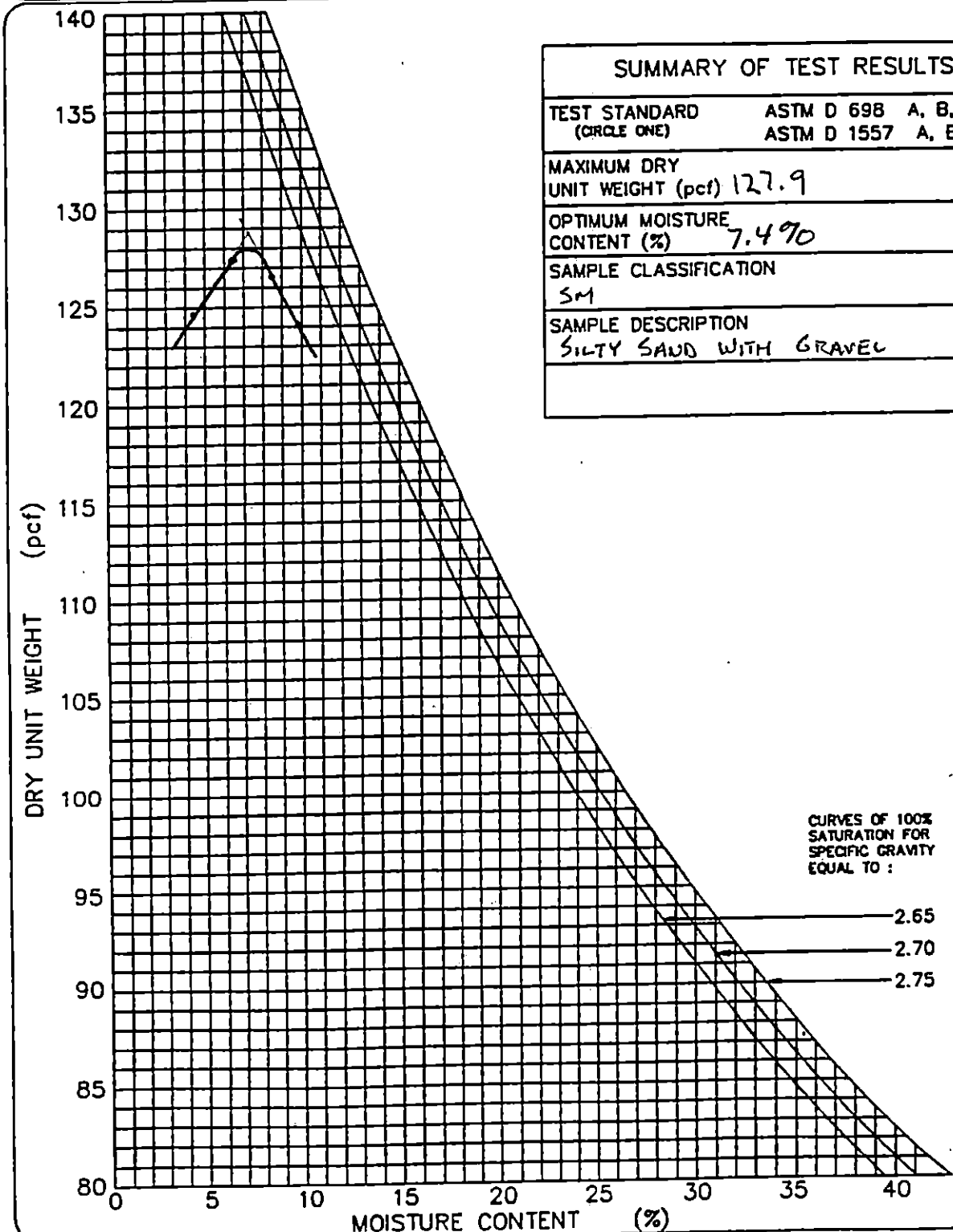
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-154 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	127.9
OPTIMUM MOISTURE CONTENT (%)	7.4%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-155 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1609.7	1410.9
WT. OF TARE	(grams)	15.9	17.2
WT. OF DRY SAMPLE	(grams)	1593.8	1393.7

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	84.5	5.3	94.7	
3/8"	9.5	197.6	12.4	87.6	
4	4.75	368.2	23.1	76.9	
10	2.0	588.1	36.9	63.1	
20	0.850	728.4	45.7	54.3	
40	0.425	997.7	62.6	37.4	
60	0.250	1257.5	78.9	21.1	
100	0.150	1351.5	84.8	15.2	
200	0.075	1391.4	87.3	12.7	

%FINER = 100 − Σ% RETAINED

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GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

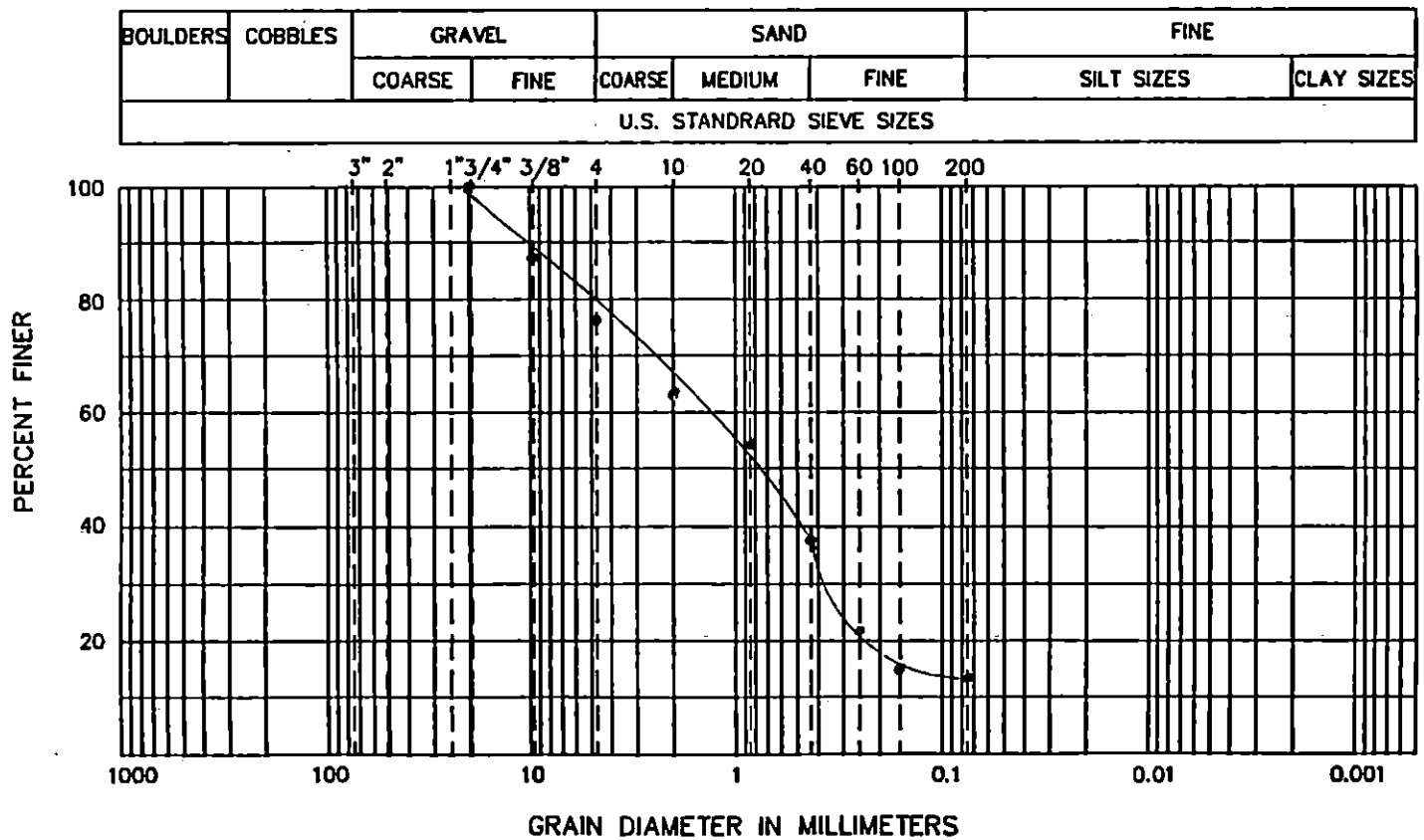
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 28 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-155 — QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	94.7
3/8-in.	87.6
NO. 4	76.9
NO. 10	63.1
NO. 20	54.3
NO. 40	37.4
NO. 60	21.1
NO. 100	15.2
NO. 200	12.7

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-155 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10297	10483	10645	10576	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4452	4638	4800	4731	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.1	134.5	139.2	137.2	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.5	126.4	127.8	124.7	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.1	8.0	7.9	8.3	
G	WT. OF WET SOIL & TARE	(grams)	612.4	660.2	671.2	698.3	
H	WT. OF DRY SOIL & TARE	(grams)	586.4	621.0	617.0	635.6	
I	WT. OF WATER = G - H	(grams)	26.0	39.2	54.2	62.7	
J	WT. DRY SOIL = H - F	(grams)	578.3	613.0	609.1	627.3	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.5%	6.4%	8.9%	10.0%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

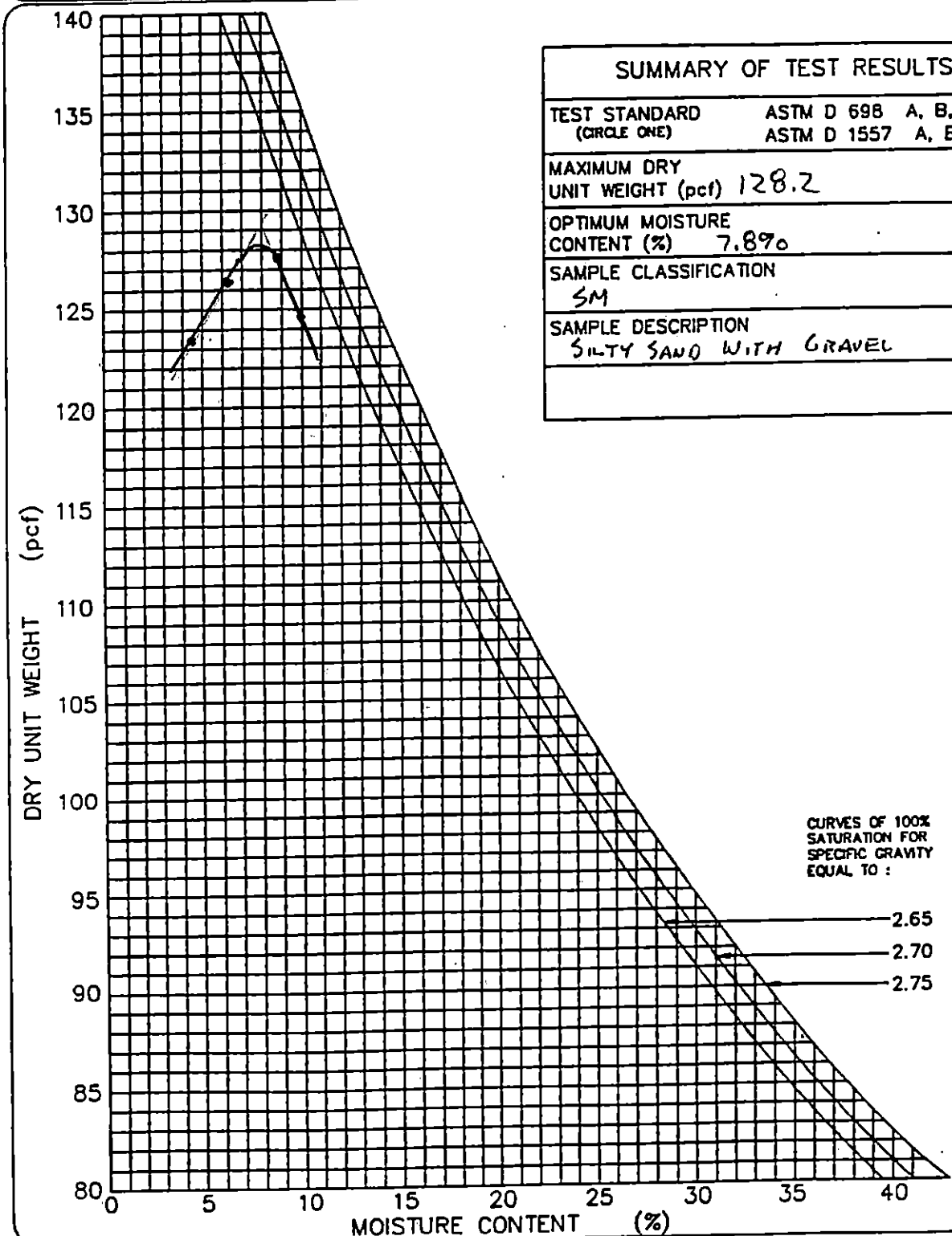
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ACT. SELECT SAMPLE NO.: S-155 QA ID: 71R



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.2
OPTIMUM MOISTURE CONTENT (%)	7.8%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-156 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1819.6	1592.1
WT. OF TARE	(grams)	15.9	18.3
WT. OF DRY SAMPLE	(grams)	1803.7	1573.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	113.6	6.3	93.7	
3/8"	9.5	175.0	9.7	90.3	
4	4.75	357.1	19.8	80.2	
10	2.0	544.7	30.2	69.8	
20	0.850	737.7	40.9	59.1	
40	0.425	1159.8	64.3	35.7	
60	0.250	1432.1	79.4	20.6	
100	0.150	1525.9	84.6	15.4	
200	0.075	1572.8	87.2	12.8	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

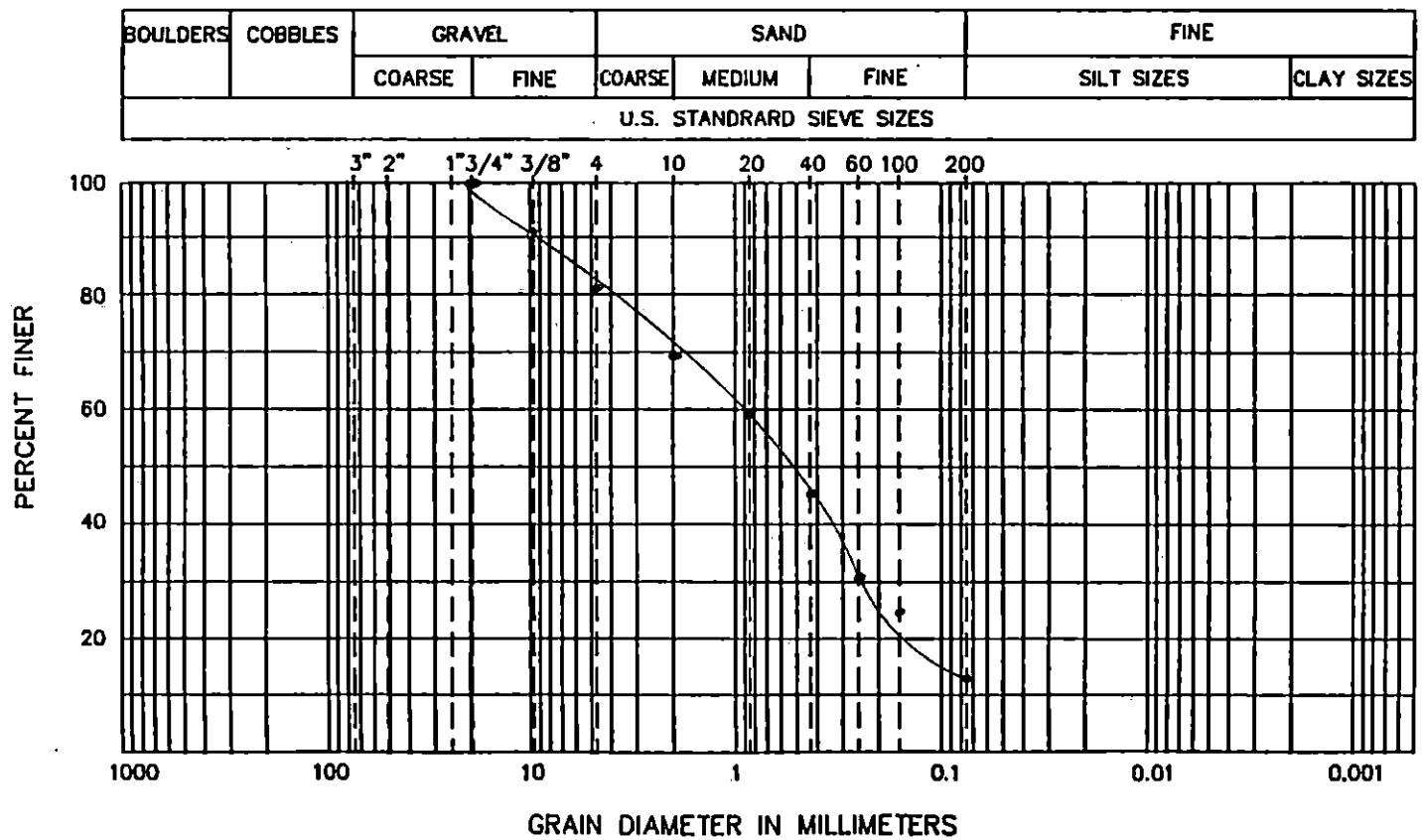
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 28 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-156 QA ID: 71R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	93.7
3/8-in.	90.3
NO. 4	80.2
NO. 10	69.8
NO. 20	59.1
NO. 40	35.7
NO. 60	20.6
NO. 100	15.4
NO. 200	12.8

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 26 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-156 — QA ID: D/R

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10296	10493	10600	10562	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4451	4648	4755	4717	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.1	134.8	137.9	136.8	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.7	127.2	127.8	124.7	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.0	8.0	8.3	
G	WT. OF WET SOIL & TARE	(grams)	625.3	662.8	685.9	674.6	
H	WT. OF DRY SOIL & TARE	(grams)	599.3	625.7	636.3	615.7	
I	WT. OF WATER = G - H	(grams)	26.0	37.1	49.6	58.9	
J	WT. DRY SOIL = H - F	(grams)	591.4	617.7	628.3	607.4	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.4%	6.0%	7.9%	9.7%	

GeoSyntec Consultants

TOWN OF HUNTINGTON

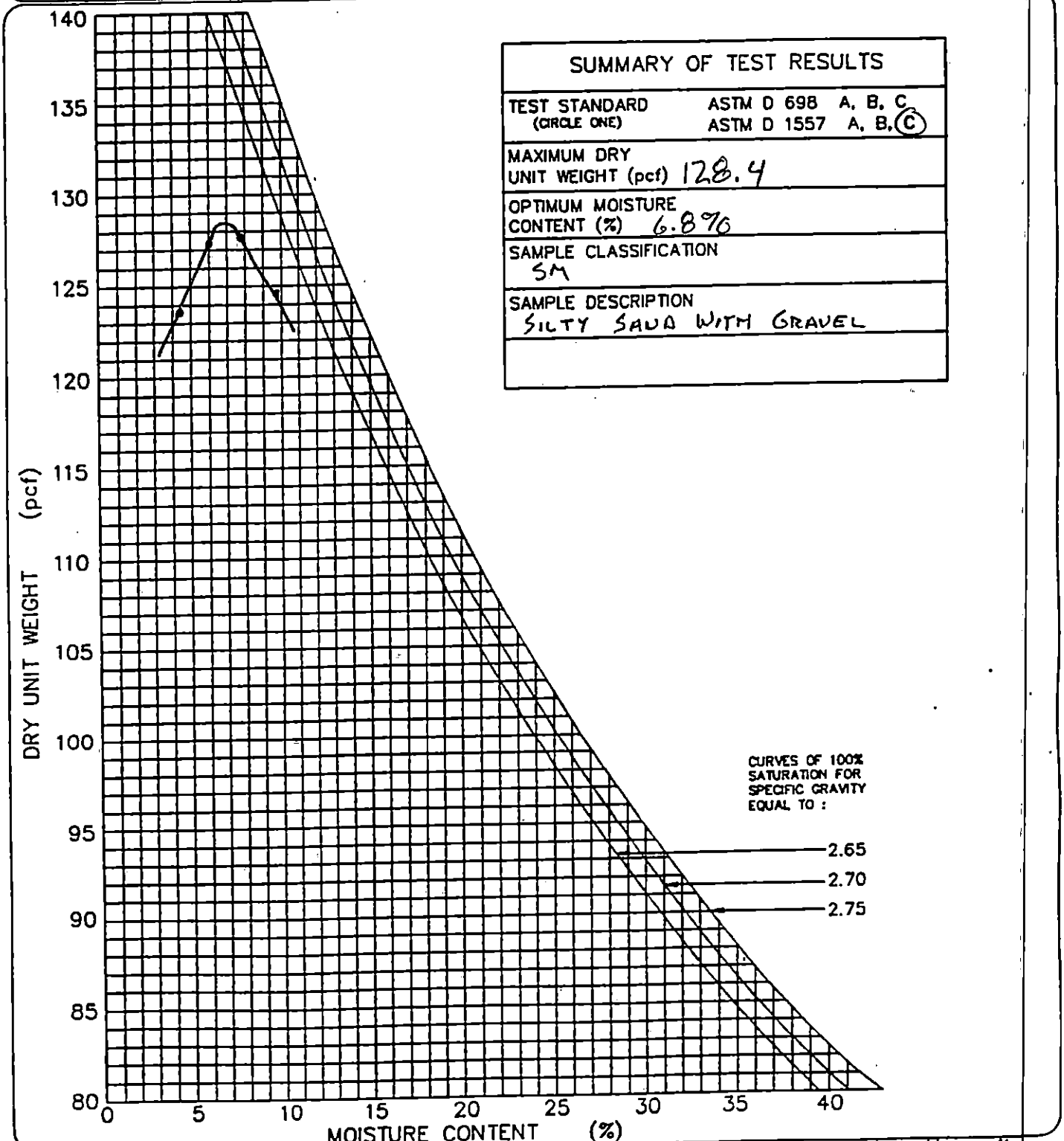
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-156 QA ID: DJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.4
OPTIMUM MOISTURE CONTENT (%)	6.8%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-157 QA ID: D18

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1911.2	1671.1
WT. OF TARE	(grams)	16.5	18.0
WT. OF DRY SAMPLE	(grams)	1894.7	1653.1

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	125.1	6.6	93.4	
3/8"	9.5	189.5	10.0	90.0	
4	4.75	318.3	16.8	83.2	
10	2.0	566.5	29.9	70.1	
20	0.850	803.4	42.4	57.6	
40	0.425	1205.0	63.6	36.4	
60	0.250	1510.1	79.7	20.3	
100	0.150	1608.6	84.9	15.1	
200	0.075	1650.3	87.1	12.9	

%FINER = 100 − Σ% RETAINED

©GEOSYNTEC CONSULTANTS FILE NO. 2-14-PMS

GeoSyntec Consultants

TOWN OF HUNTINGTON

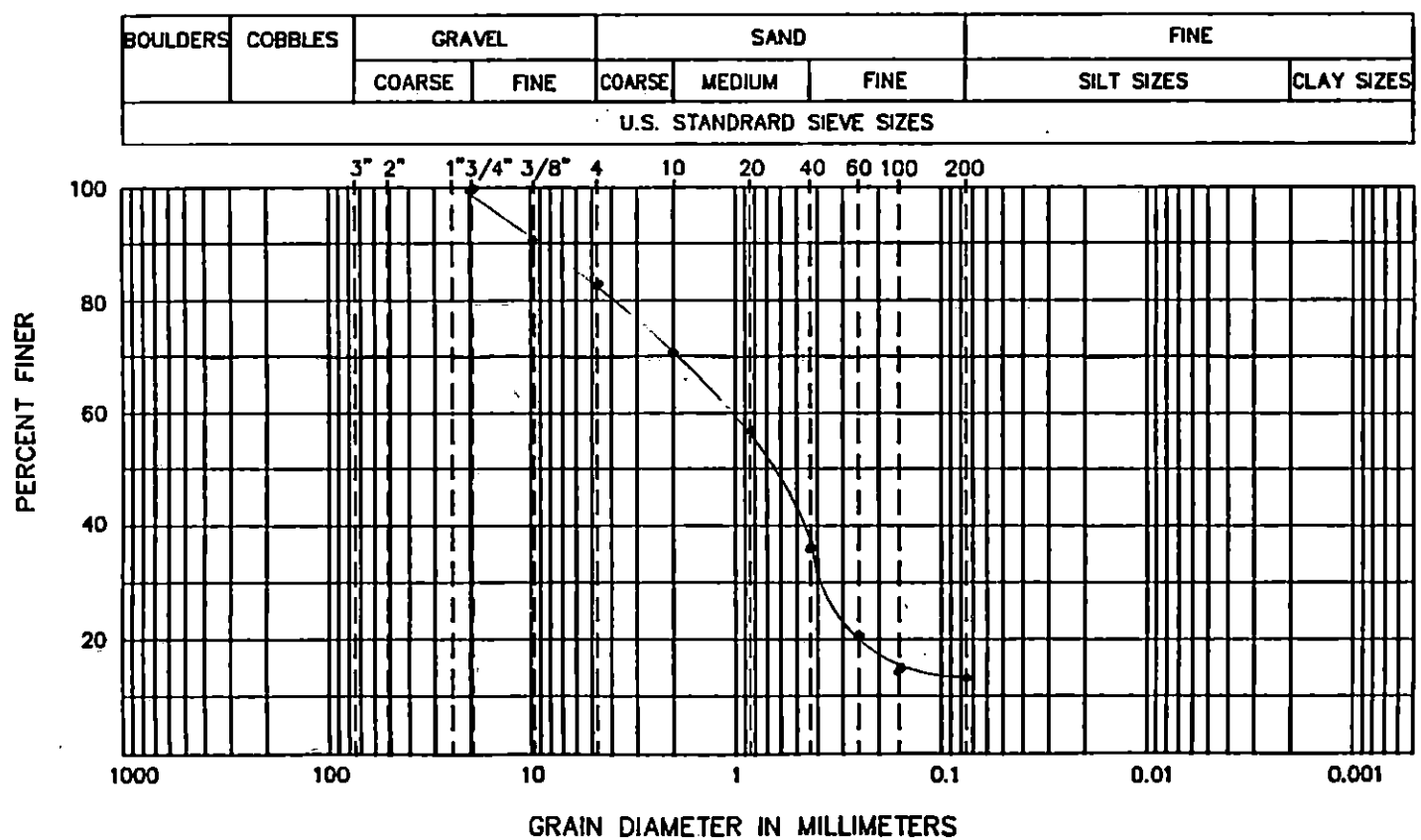
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-157 QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	93.4
3/8-in.	90.0
NO. 4	83.2
NO. 10	70.1
NO. 20	57.6
NO. 40	36.4
NO. 60	20.3
NO. 100	15.1
NO. 200	12.9

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-157 QA ID: DJR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10290	10524	10631	10586	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A − B	(grams)	4445	4679	4786	4741	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.9	135.7	138.8	137.5	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.2	127.2	127.5	125.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT − ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	8.1	8.0	8.2	
G	WT. OF WET SOIL & TARE	(grams)	633.7	671.1	693.6	708.8	
H	WT. OF DRY SOIL & TARE	(grams)	606.2	629.5	637.6	645.7	
I	WT. OF WATER = G − H	(grams)	27.5	41.6	56.0	63.1	
J	WT. DRY SOIL = H − F	(grams)	598.3	621.4	629.6	637.5	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.6%	6.7%	8.9%	9.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

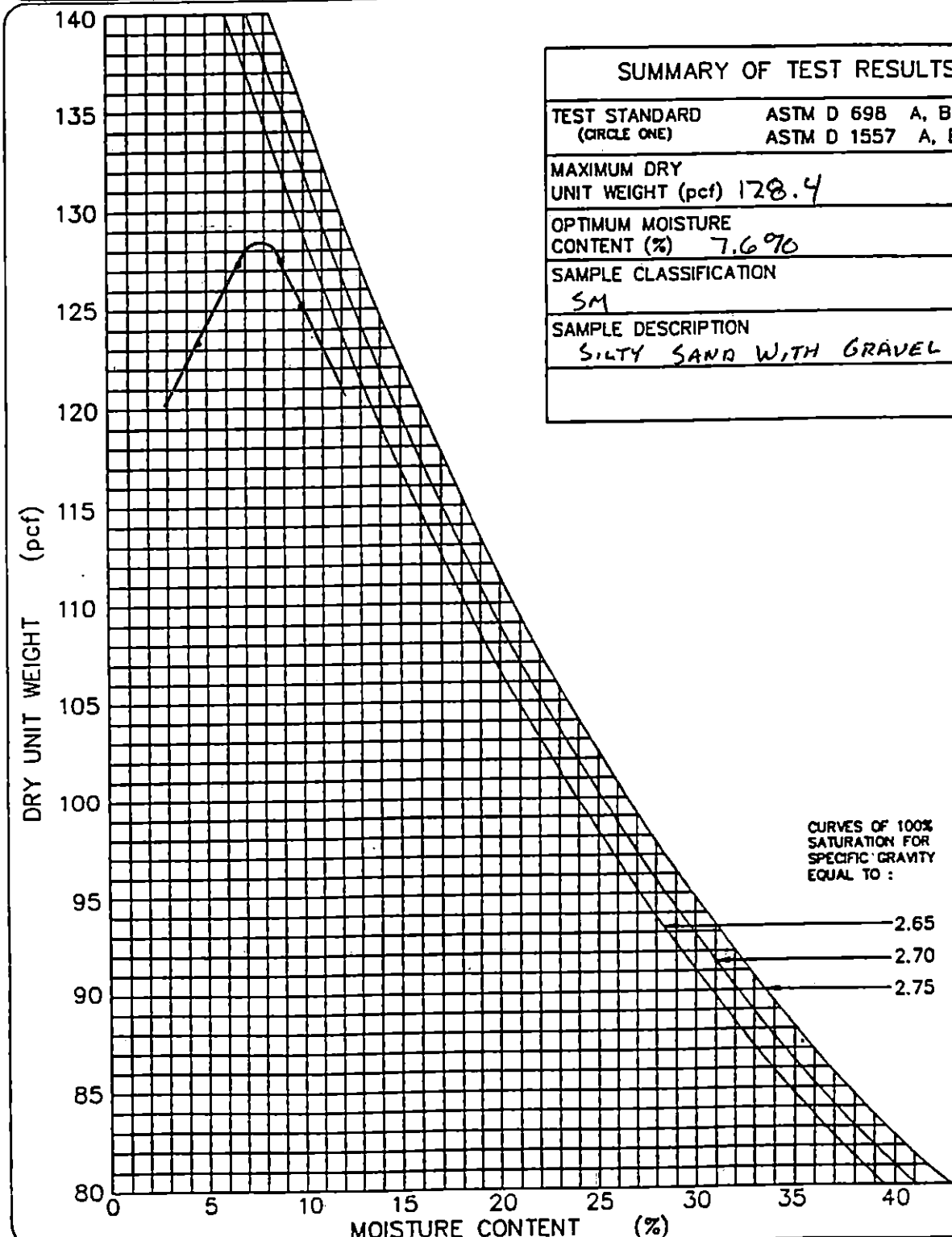
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-157 QA ID: 217

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.4
OPTIMUM MOISTURE CONTENT (%)	7.6%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-158 QA ID: DJR

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1700.0	1498.1
WT. OF TARE	(grams)	15.9	18.3
WT. OF DRY SAMPLE	(grams)	1684.1	1479.8

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.6	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	80.8	4.8	95.2	
3/8"	9.5	165.0	9.8	90.2	
4	4.75	289.7	17.2	82.8	
10	2.0	535.5	31.8	68.2	
20	0.850	665.2	39.5	60.5	
40	0.425	1037.4	61.6	38.4	
60	0.250	1308.5	77.7	22.3	
100	0.150	1446.6	85.9	14.1	
200	0.075	1478.6	87.8	12.2	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

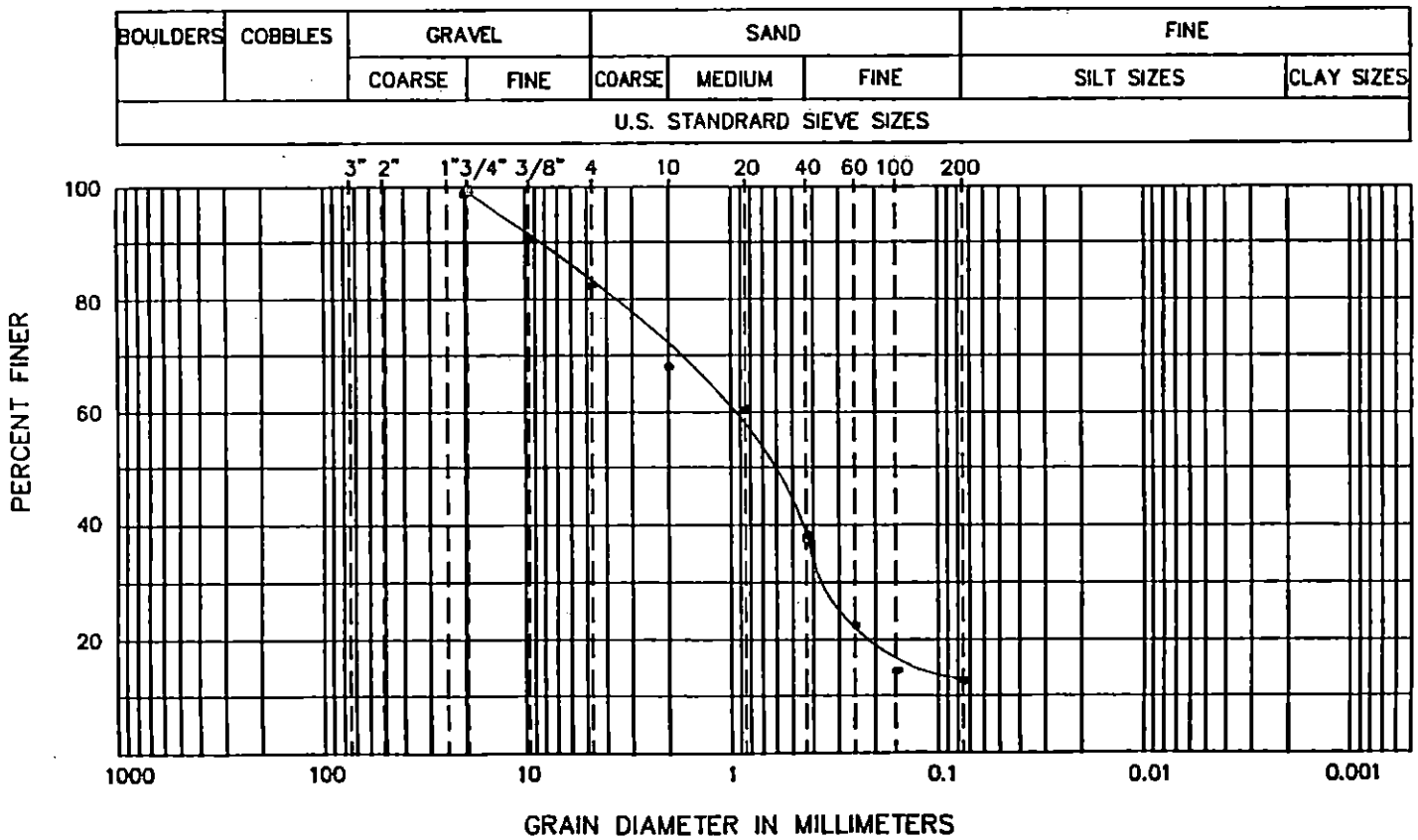
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-158 QA ID: DAR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	95.2
3/8-in.	90.2
NO. 4	82.8
NO. 10	68.2
NO. 20	60.5
NO. 40	38.4
NO. 60	22.3
NO. 100	14.1
NO. 200	12.2

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-158 — QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10345	10500	10576	10548	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4500	4655	4731	4703	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	130.5	135.0	137.2	136.4	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	124.8	127.1	126.3	124.1	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	7.9	7.9	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	649.8	678.7	682.9	708.6	
H	WT. OF DRY SOIL & TARE	(grams)	621.6	639.5	629.5	645.5	
I	WT. OF WATER = G - H	(grams)	28.2	39.2	53.4	63.1	
J	WT. DRY SOIL = H - F	(grams)	613.7	631.6	621.4	637.2	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.6%	6.2%	8.6%	9.9%	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

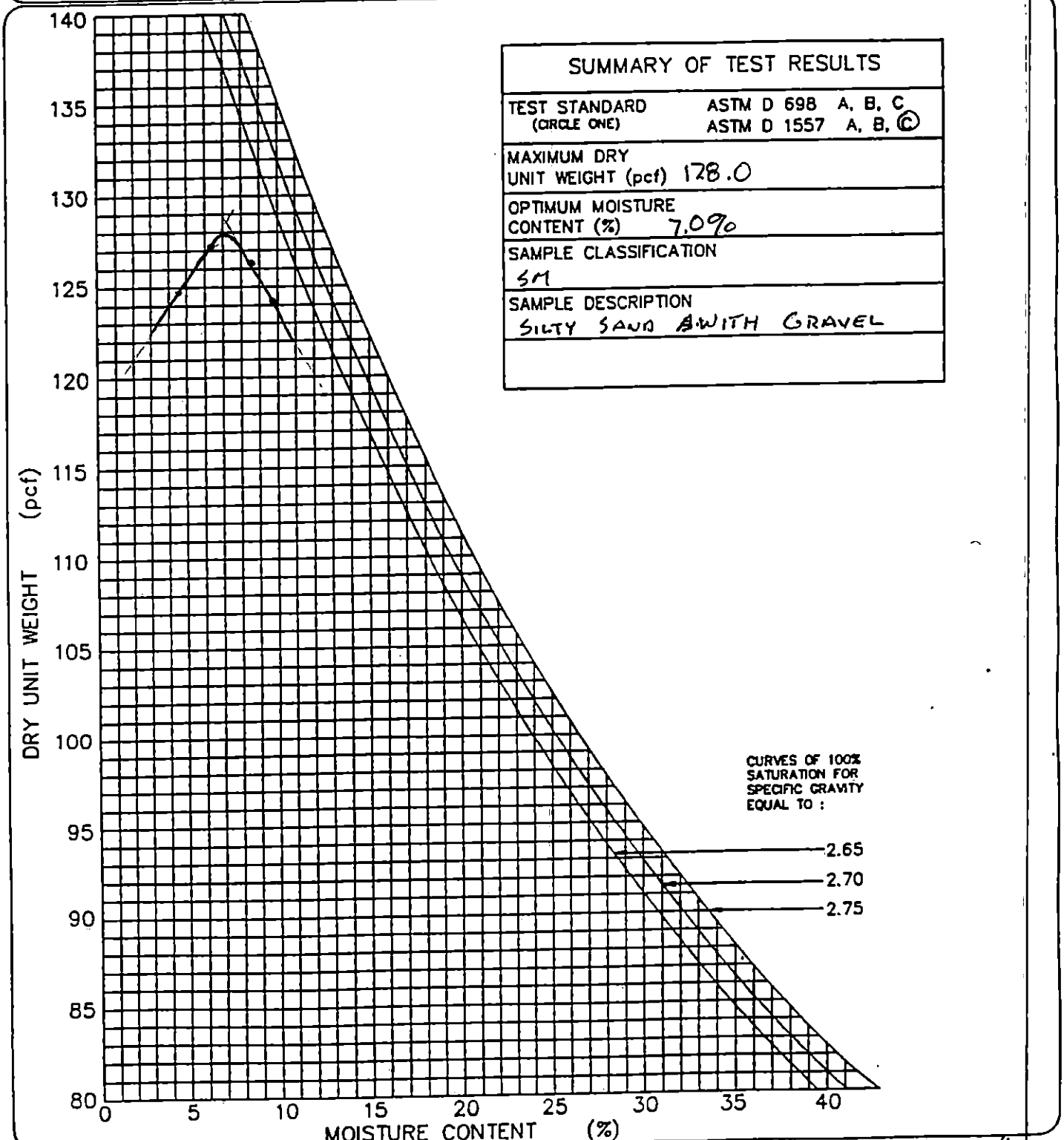
MOISTURE-DENSITY RELATIONSHIP

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 11 month 95 year

SOURCE: B. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-158 QA ID: JJR



SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.0
OPTIMUM MOISTURE CONTENT (%)	7.0%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-159 QA ID: 717

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1759.6	1542.5
WT. OF TARE	(grams)	16.0	18.2
WT. OF DRY SAMPLE	(grams)	1743.6	1524.3

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	120.3	6.9	93.1	
3/8"	9.5	162.2	9.3	90.7	
4	4.75	308.6	17.7	82.3	
10	2.0	507.4	29.1	70.9	
20	0.850	734.1	42.1	57.9	
40	0.425	1077.5	61.8	38.2	
60	0.250	1354.8	77.7	22.3	
100	0.150	1445.4	82.9	17.1	
200	0.075	1522.2	87.3	12.7	

%FINER = 100 − Σ% RETAINED

GeoSyntec Consultants

TOWN OF HUNTINGTON

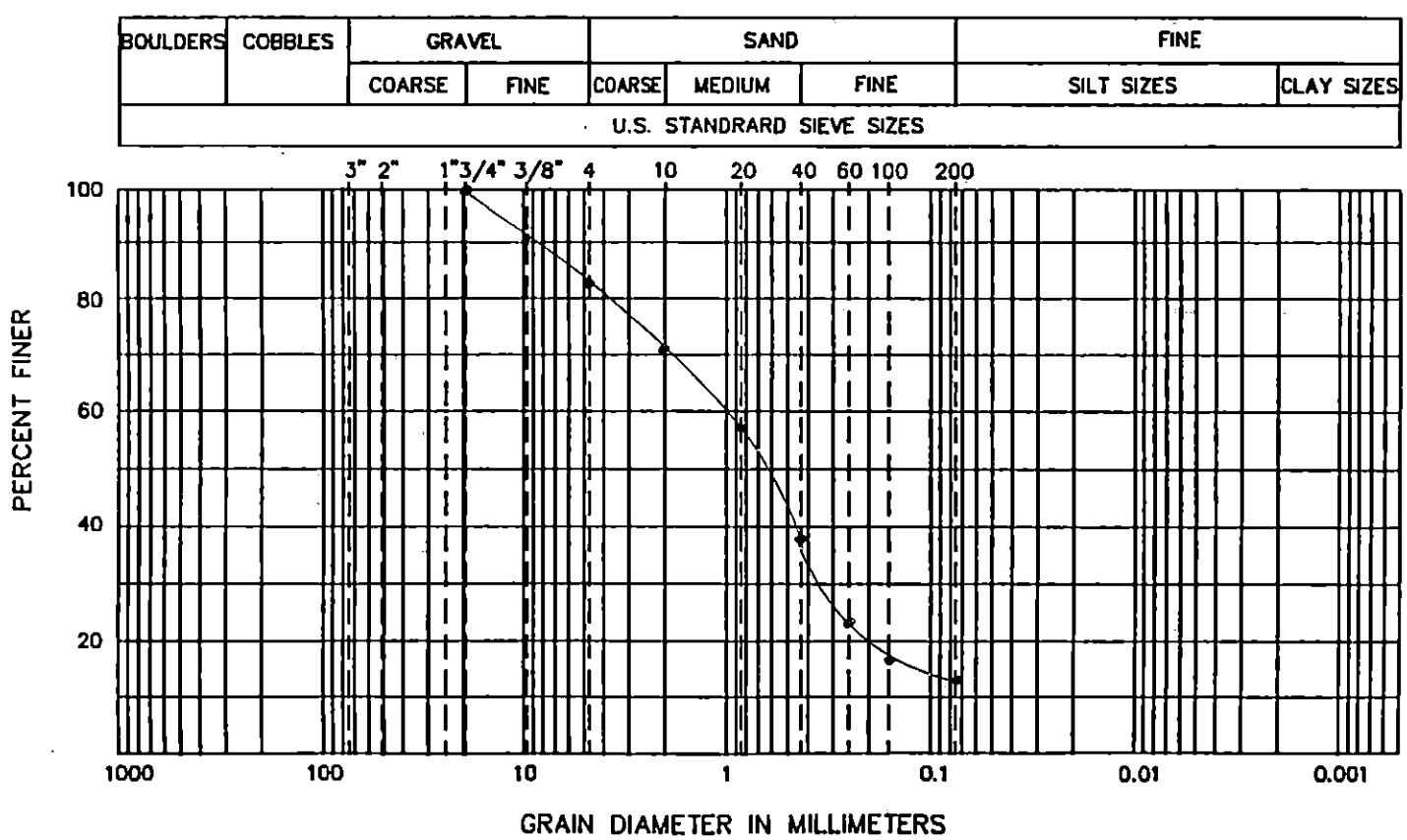
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-159 — QA ID: D/R



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	93.1
3/8-in.	90.7
NO. 4	82.3
NO. 10	70.9
NO. 20	57.9
NO. 40	38.2
NO. 60	22.3
NO. 100	17.1
NO. 200	12.7

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-159 — QA ID: DAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10269	10479	10586	10555	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4424	4634	4741	4710	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	128.3	134.4	137.5	136.6	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.1	126.9	126.8	124.3	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.0	8.3	8.2	
G	WT. OF WET SOIL & TARE	(grams)	627.7	651.1	677.3	700.4	
H	WT. OF DRY SOIL & TARE	(grams)	602.7	615.3	625.5	638.0	
I	WT. OF WATER = G - H	(grams)	25.0	35.8	51.8	62.4	
J	WT. DRY SOIL = H - F	(grams)	594.7	607.3	617.2	629.8	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.2%	5.9%	8.4%	9.9%	

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

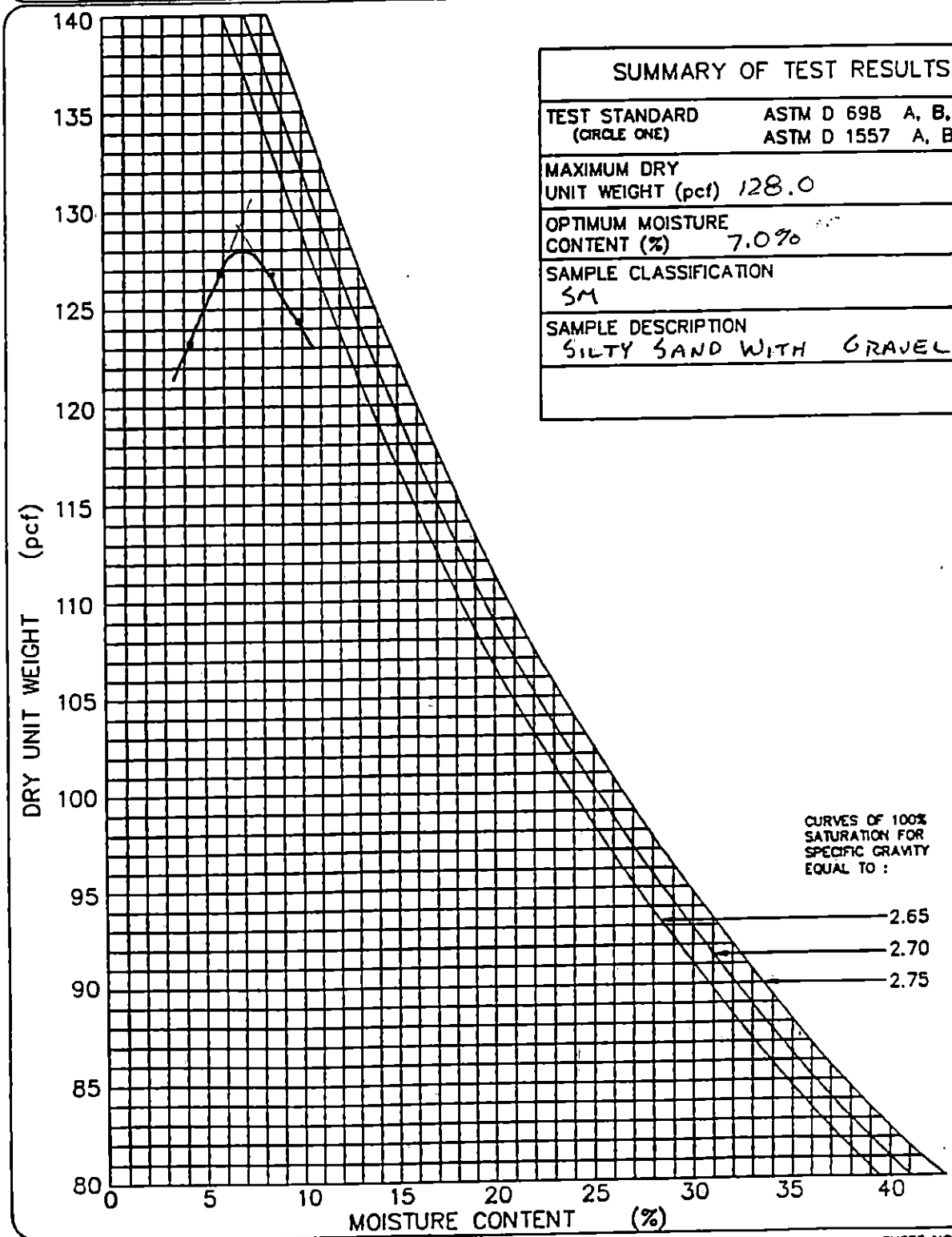
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-159 QA ID: 21R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.0
OPTIMUM MOISTURE CONTENT (%)	7.0%
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



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TOWN OF HUNTINGTON

PARTICLE SIZE ANALYSIS MECHANICAL SIEVE METHOD (ASTM D 422)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-160 QA ID: DJP

SOIL SAMPLE SIZE (ASTM D 1140)

DIAMETER OF LARGEST PARTICLE (SIEVE SIZE)	(grams)	NO. 10	NO. 4	3/4-in.
APPROXIMATE MINIMUM WT. OF SAMPLE	(grams)	200	500	1500

		BEFORE WASH	AFTER WASH
WT. OF DRY SAMPLE PLUS TARE	(grams)	1819.5	1598.8
WT. OF TARE	(grams)	16.3	17.9
WT. OF DRY SAMPLE	(grams)	1803.2	1580.9

SIEVE ANALYSIS

SIEVE NO.	DIAMETER (mm)	WT. RETAINED (grams)	% RETAINED	% FINER	PROJECT SPECIFICATIONS
1"	25.0	0.0	0.0	100.0	
3/4"	19.0	0.0	0.0	100.0	
1/2"	12.5	52.3	2.9	97.1	
3/8"	9.5	122.6	6.8	93.2	
4	4.75	293.9	16.3	83.7	
10	2.0	467.0	25.9	74.1	
20	0.850	719.5	39.9	60.1	
40	0.425	1092.7	60.6	39.4	
60	0.250	1401.1	77.7	22.3	
100	0.150	1521.9	84.4	15.6	
200	0.075	1579.6	87.6	12.4	

%FINER = 100 − Σ% RETAINED

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TOWN OF HUNTINGTON

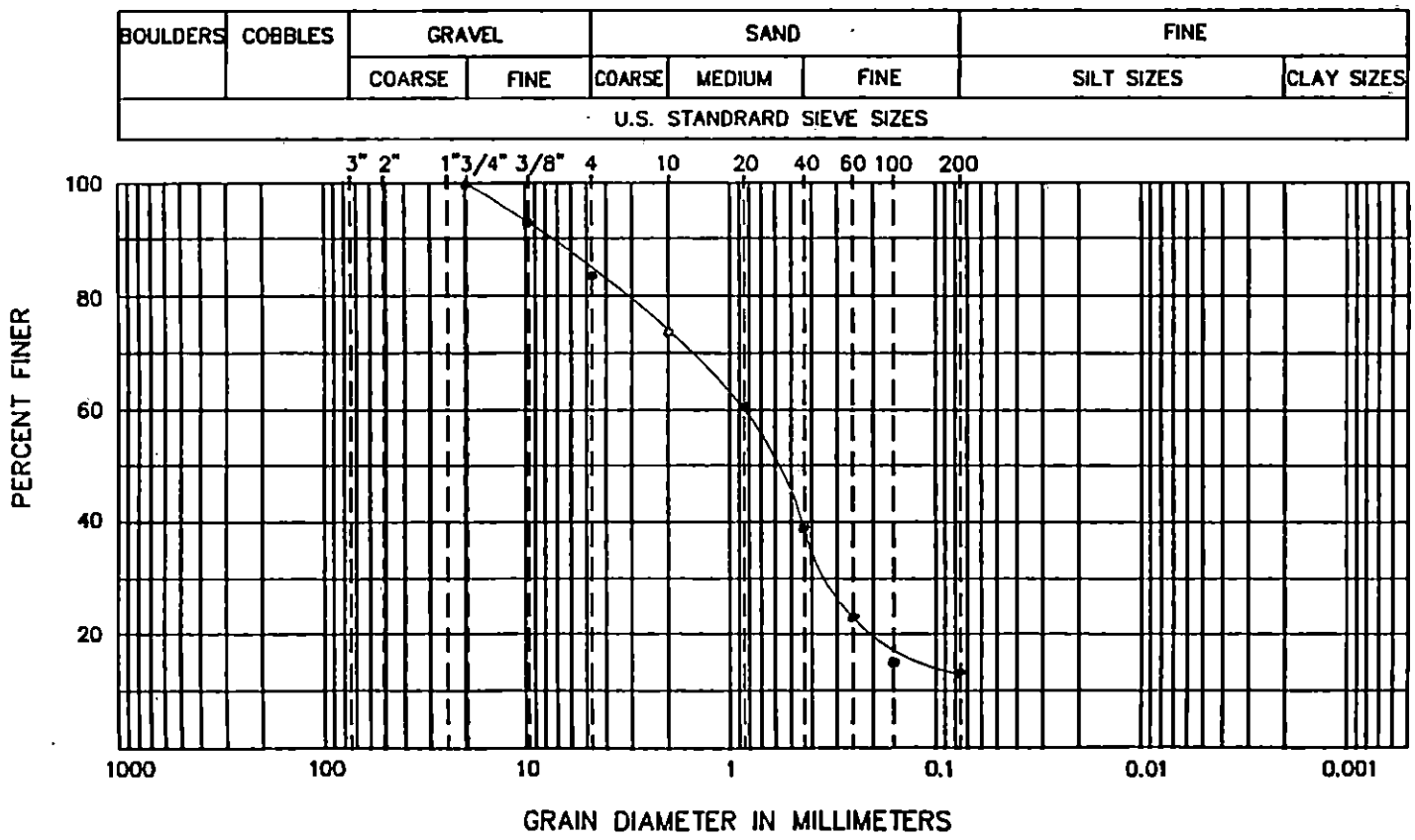
PARTICLE SIZE DISTRIBUTION AND SOIL CLASSIFICATION TEST RESULTS (ASTM D 422 & ASTM D 2487)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALTERNATE SELECT SAMPLE NO.: S-1660 QA ID: DJR



CURVE COEFFICIENTS

(C_u) .....

(C_c) .....

ATTERBERG LIMITS

(LL) .....

(PL) .....

(PI) .....

SIEVE RESULTS

SIEVE SIZE	% FINER
3-in.	
2-in.	
1 1/2-in.	
1-in.	
3/4-in.	100.0
1/2-in.	97.1
3/8-in.	93.2
NO. 4	83.7
NO. 10	74.1
NO. 20	60.1
NO. 40	39.4
NO. 60	22.3
NO. 100	15.6
NO. 200	12.4

SOIL CLASSIFICATION (ASTM D 2487): SM - SILTY SAND WITH GRAVEL

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TOWN OF HUNTINGTON

FIELD LABORATORY COMPACTION TEST (ASTM D 1557 METHOD C)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK — PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE — DATE: 30 day 11 month 95 year

SOURCE: R. SCHLEIDER — MATERIAL TYPE: ALTERNATE SELECT — SAMPLE NO.: S-160 — QA ID: JAR

THIS METHOD WILL BE USED IF THE MATERIAL RETAINED ON THE NO. 3/8-in. (9.5-mm) SIEVE IS GREATER THAN 20% AND THE MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS LESS THAN 30%.
ALL MATERIAL RETAINED ON THE 3/4-in. (19.0-mm) SIEVE IS DISCARDED.
USE A 6-in. DIAMETER MOLD / 10-lb RAMMER / 18-in. DROP / 5 LAYERS / 56 BLOWS PER LAYER.

COMPACTION OF SOIL

A	WT. OF SOIL & MOLD	(grams)	10314	10524	10614	10566	
B	WT. OF MOLD	(grams)	5845	5845	5845	5845	
C	WT. OF SOIL = A - B	(grams)	4469	4679	4769	4721	
D	WET UNIT WT.(1) = C X 0.029	(pcf)	129.6	135.7	138.3	136.9	
E	DRY UNIT WT. = D / [1 + (K/100)]	(pcf)	123.7	127.2	127.1	124.2	

NOTE: (1) IF CALIBRATED MOLD OF 1/13.333 FT^3 IS USED, THE WET DENSITY IS CALCULATED FROM THE WEIGHT OF SOIL, THE VOLUME OF THE MOLD AND THE CONVERSION FROM GRAMS TO POUNDS (I.E., CONVERSION FACTOR = (13.333 / 453.6) = 0.029). THE MOLD MUST BE CALIBRATED TO VERIFY A CAPACITY OF 1/13.333 ± 0.0004 FT^3 ON INTERVALS NOT TO EXCEED 1000 TIMES THAT THE MOLD IS FILLED.

MOISTURE CONTENT - ASTM D 2216

	TARE NO.						
F	WT. OF TARE	(grams)	8.0	8.1	8.1	8.3	
G	WT. OF WET SOIL & TARE	(grams)	638.6	683.9	692.3	715.0	
H	WT. OF DRY SOIL & TARE	(grams)	609.7	641.5	637.0	649.6	
I	WT. OF WATER = G - H	(grams)	28.9	42.4	55.3	65.4	
J	WT. DRY SOIL = H - F	(grams)	601.7	633.4	628.9	641.3	
K	MOISTURE CONTENT = (I/J) X 100	(%)	4.8%	6.7%	8.8%	10.2%	

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TOWN OF HUNTINGTON

MOISTURE-DENSITY RELATIONSHIP

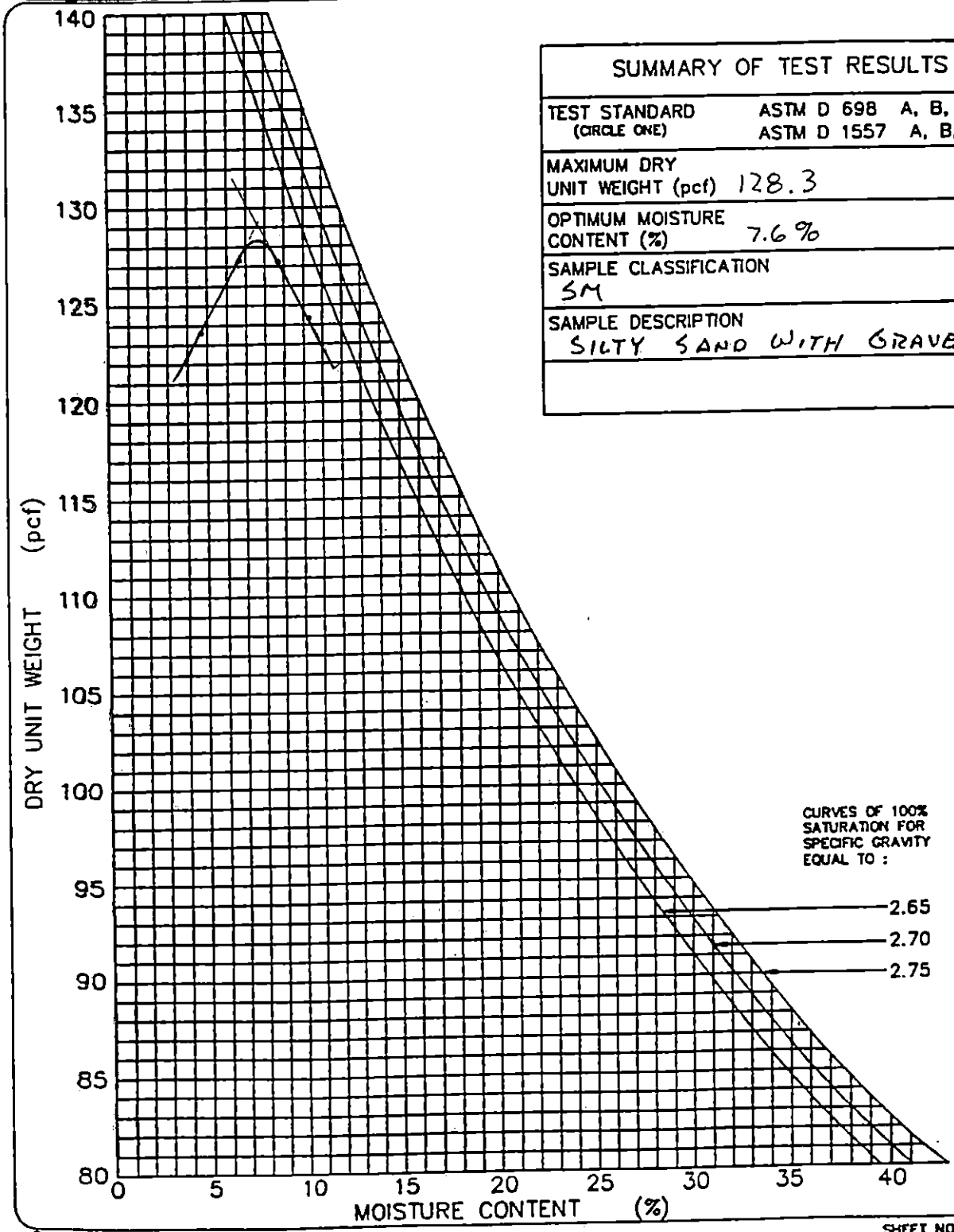
PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 11 month 95 year

SOURCE: R. SCHLEIDER MATERIAL TYPE: ALT. SELECT SAMPLE NO.: S-160 QA ID: D1R

SUMMARY OF TEST RESULTS	
TEST STANDARD (CIRCLE ONE)	ASTM D 698 A, B, C ASTM D 1557 A, B, (C)
MAXIMUM DRY UNIT WEIGHT (pcf)	128.3
OPTIMUM MOISTURE CONTENT (%)	7.6 %
SAMPLE CLASSIFICATION	SM
SAMPLE DESCRIPTION	SILTY SAND WITH GRAVEL



SUB APPENDIX I–3

MOISTURE-DENSITY

TEST RESULTS

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TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 5 day July month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: Select Fill R. Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: 9" LIFT THICKNESS (LOOSE / (COMPACTED)):

(CIRCLE ONE)

% COMPACTION: ≥90% - SELECT MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: Troxler 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
050795-1	N8250 E7040	6"/L1	8.5	129.5	9.0	130.8	120.0	92.5	P			GD
-2	N8320 E7045	"	"	"	8.9	127.7	117.7	90.6	P			GD

GeoSyntec Consultants FILE NO.: 2-20-FNM

SHEET NO. 1 OF 172

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TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 7 day July month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: Select Fill R. Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: 9" LIFT THICKNESS (LOOSE / (COMPACTED): —
(CIRCLE ONE)

% COMPACTION: ≥90% SELECT MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: Troxler 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
070795-1	Channel 3 Sec. 13A-13E	6"	8.5	129.5	10.5	124.1	116.5	90.0	P			GD
-2	" " "		"	"	9.2	129.0	118.3	91.2	P			GD

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 07 month 1995 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED)) ≤9"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A) B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION SELECT	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1007-1	CHANNEL J 25'S OF SECT 13E	9"/6"/1	7.7	128.5	9.6	126.7	115.6	90.0	P			
1007-2	CHANNEL J 50'N OF SECT 13A	9"/6"/1	7.7	128.5	9.3	126.4	115.7	90.1	P			

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TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 07 month 1995 year

SPECIFICATION REQUIREMENTS

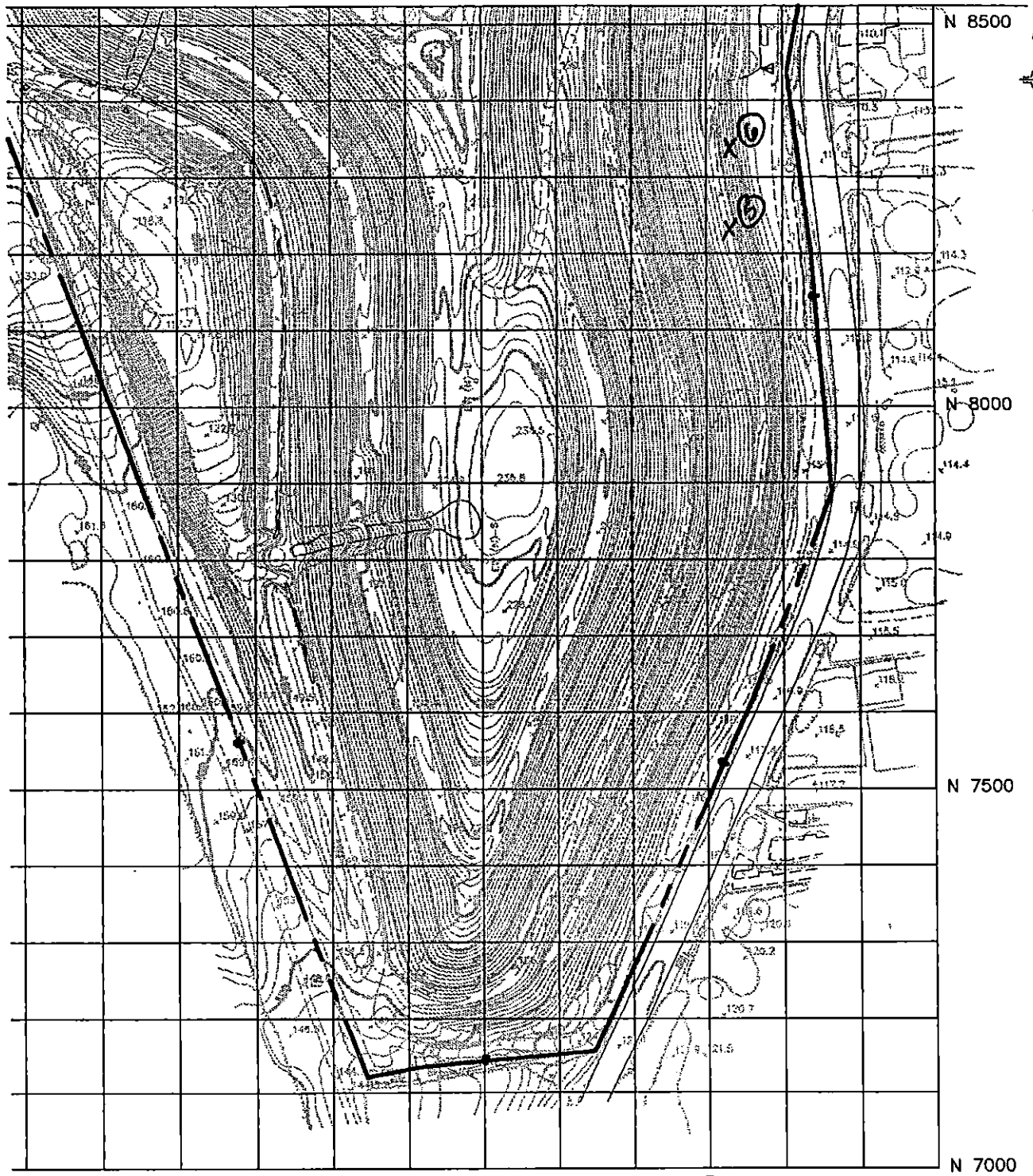
SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): ≤9"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION SELECT FILL	PROBE DEPTH/ ELEV/ LIFT NO. (ACT DEPTH)	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
1107-1	CHANNEL J 40'S OF SECT 13E	6"/9"/2	7.7	128.5	10.6	122.5	115.6	90.0	P			
1107-2	CHANNEL J 35'N OF SECT 13A	6"/9"/2	7.7	128.5	9.7	127.1	115.9	90.2	P			
1107-3	CHANNEL J 30'S OF SECT 13E	4"/6"/3	7.7	128.5	9.6	134.1	122.4	95.3	P			
1107-4	CHANNEL J 25'N OF SECT 13A	4"/6"/3	7.7	128.5	10.2	129.4	117.4	91.4	P			
1107-5	N8290 E7050 EAST SLOPE	6"/9"/2	7.7	128.5	6.4	126.4	118.8	92.5	P			
1107-6	N8320 E7040 EAST SLOPE	6"/10"/2	7.7	128.5	8.0	133.1	123.2	95.9	P			

LAP MATCH TO FIGURE 2



0 100 200

1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

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DWG: 3700F001 199501251447RT

FIGURE NO.	1
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

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TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 7 month 1995 year

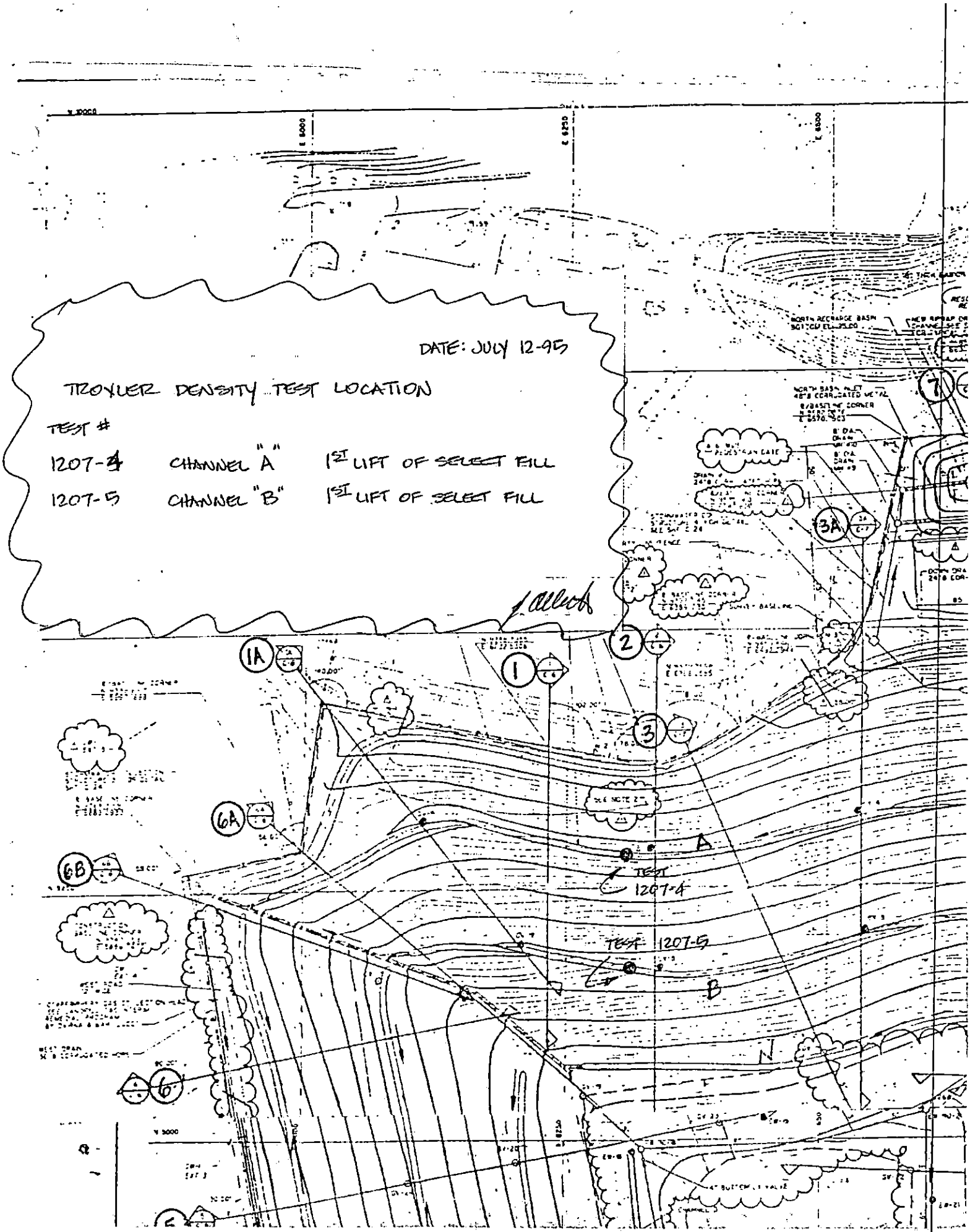
SPECIFICATION REQUIREMENTS

SOURCE: R-SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): ≤9" 18"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A B C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO. (ACT DEPTH)	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
1207-1	N9450'E6950 NORTH SLOPE COMMON	6"/10"/1	7.7	128.5	5.6	122.9	116.4	90.6	P			
1207-2	N9445'E6850 "	6"/9"/1	7.7	128.5	9.1	133.9	122.7	95.5	P			
1207-3	N9440'E6950 "	6"/10"/1	7.7	128.5	10.2	135.3	122.8	95.6	P			
1207-4	CHANNEL "A" (SEE MAP)	6"/18"/1	7.7	128.5	8.1	131.5	121.6	94.7	P			
1207-5	CHANNEL "B" "	6"/18"/1	7.7	128.5	6.6	132.9	124.6	97.0	P			


DATE: JULY 12-95
TROXLER DENSITY TEST LOCATION
TEST #
1207-4 CHANNEL "A" 1ST LIFT OF SELECT FILL
1207-5 CHANNEL "B" 1ST LIFT OF SELECT FILL
1A
1
2
3
3A
6A
6B
6
7
A
TEST 1207-4
TEST 1207-5
B

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TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 07 month 1995 year

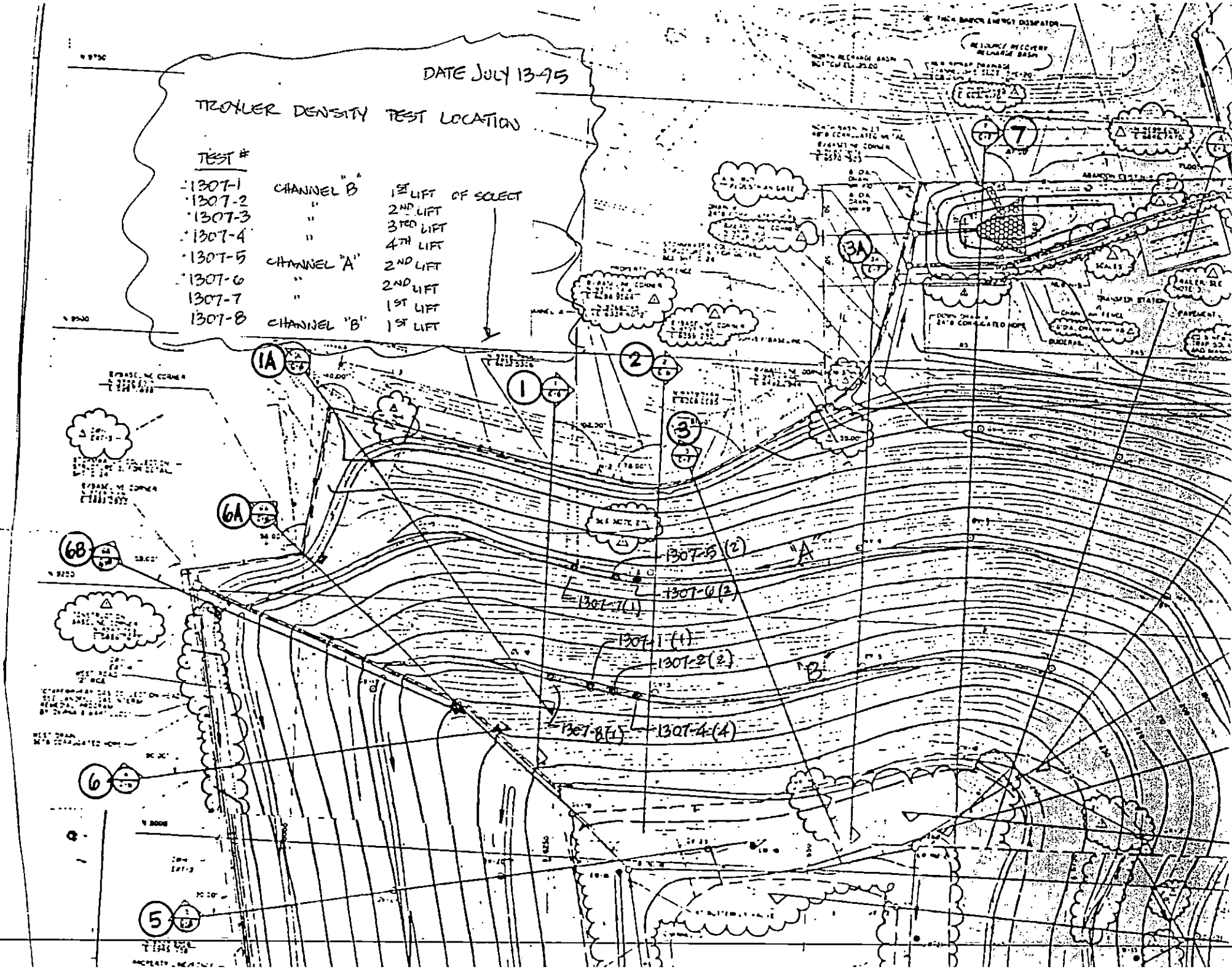
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)) ≤ 18" ≤ 9"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: /

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
	SELECT FILL	ACT DEPTH										
1307-1	CHANNEL "B"	6"/18"/1	7.7	128.5	6.7	123.5	115.7	90.1	P			(97)
1307-2	CHANNEL "B"	3"/9"/2	7.7	128.5	7.7	124.5	115.6	90.0	P			(98)
1307-3	CHANNEL "B"	3"/9"/3	7.7	128.5	7.1	123.9	115.8	90.1	P			(99)
1307-4	CHANNEL "B"	3"/9"/4	7.7	128.5	8.5	126.6	116.7	90.8	P			(100)
1307-5	CHANNEL "A"	3"/9"/2	7.7	128.5	6.3	117.4	110.4	85.9		F	1307-6	(96)
1307-6	CHANNEL "A"	3"/9"/2	7.7	128.5	7.5	124.3	115.6	90.0	P			(95)
1307-7	CHANNEL "A"	6"/18"/1	7.7	128.5	8.7	132.2	121.7	94.7	P			(93)
1307-8	CHANNEL "B"	6"/18"/1	7.7	128.5	6.1	123.2	116.1	90.3	P			(92)


DATE JULY 13-95
TROXLER DENSITY TEST LOCATION
TEST #
1307-1 CHANNEL "B" 1ST LIFT OF SOILCT
1307-2 " 2ND LIFT
1307-3 " 3RD LIFT
1307-4 " 4TH LIFT
1307-5 CHANNEL "A" 2ND LIFT
1307-6 " 2ND LIFT
1307-7 " 1ST LIFT
1307-8 CHANNEL "B" 1ST LIFT
1A
1
2
3
3A
6A
6B
6
5
7
1307-5 (2)
1307-6 (2)
1307-7 (1)
1307-1 (1)
1307-2 (2)
1307-8 (1)
1307-4 (4)
A
B

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TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 7 month 95 year

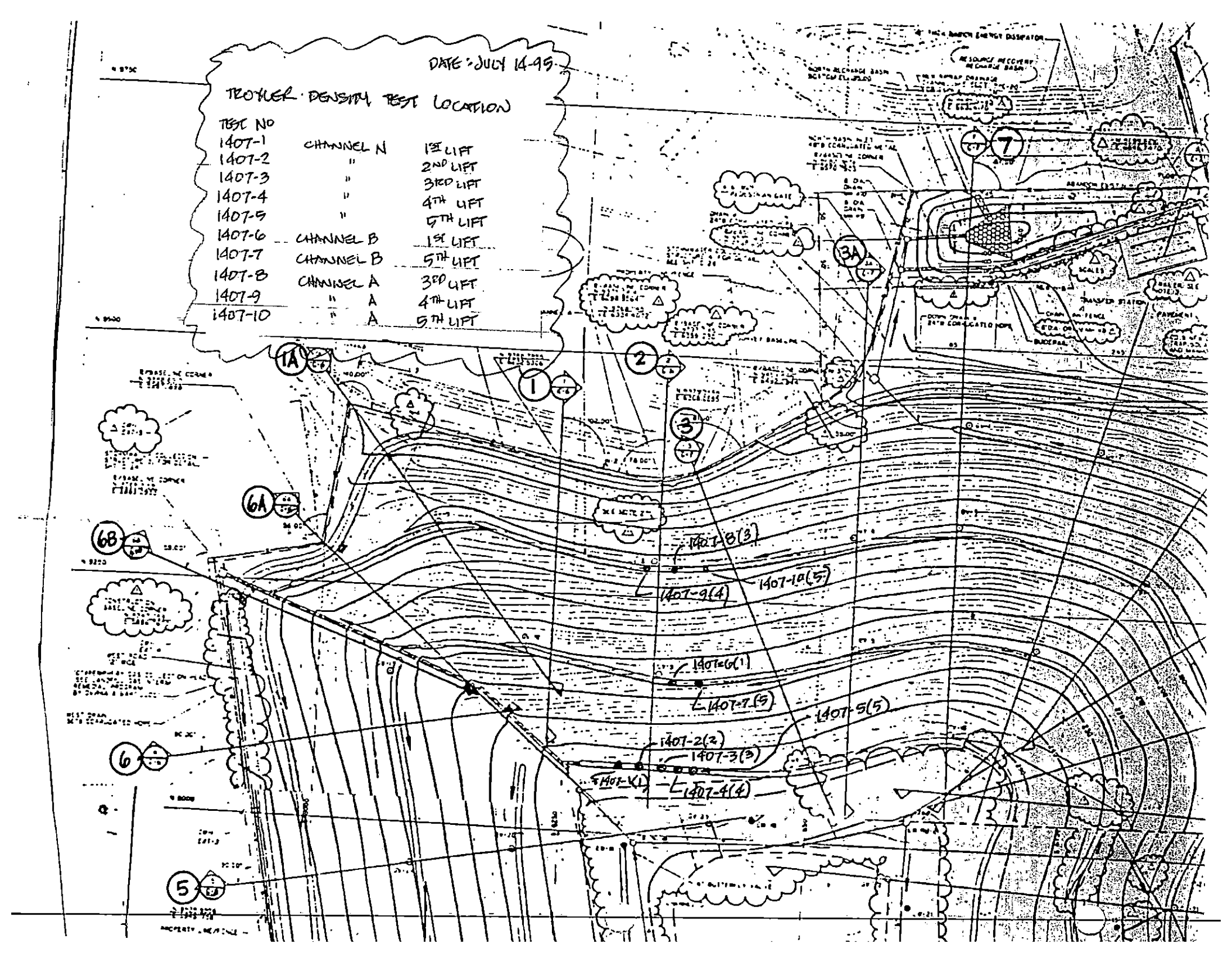
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER SELECT MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/COMPACTED): >18" / 9"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION (SELECT FILL)	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
1407-1	CHANNEL N	6"/18"/1	7.7	128.5	9.8	126.9	115.6	90.0	P			(91)
1407-2	CHANNEL N	6"/9"/2	7.7	128.5	7.3	125.7	117.1	91.1	P			(92)
1407-3	CHANNEL N	6"/9"/3	7.7	128.5	8.3	125.2	115.6	90.0	P			(93)
1407-4	CHANNEL N	6"/9"/4	7.7	128.5	8.5	125.8	115.9	90.2	P			(94)
1407-5	CHANNEL N	6"/9"/5	7.7	128.5	8.3	127.5	117.8	91.7	P			(95)
1407-6	CHANNEL B	6"/18"/1	7.7	128.5	5.0 (D)	121.4	115.6	90.0	P			(96)
1407-7	CHANNEL B	6"/9"/5	7.7	128.5	5.5	122.8	116.4	90.6	P			(97)
1407-8	CHANNEL A	6"/9"/3	7.7	128.5	4.8	124.4	118.7	92.3	P			(98)
1407-9	CHANNEL A	6"/9"/4	7.7	128.5	7.5	124.3	115.6	90.0	P			(99)
1407-10	CHANNEL A	6"/9"/5	7.7	128.5	7.0	124.1	116.0	90.3	P			(100)


DATE: JULY 14-95
TROXLER DENSITY TEST LOCATION
TEST NO
1407-1 CHANNEL N 1ST LIFT
1407-2 " 2ND LIFT
1407-3 " 3RD LIFT
1407-4 " 4TH LIFT
1407-5 " 5TH LIFT
1407-6 CHANNEL B 1ST LIFT
1407-7 CHANNEL B 5TH LIFT
1407-8 CHANNEL A 3RD LIFT
1407-9 " A 4TH LIFT
1407-10 " A 5TH LIFT
1A
1
2
3
3A
6A
6B
6
5
7
1407-8(3)
1407-10(5)
1407-9(4)
1407-6(1)
1407-7(5)
1407-5(5)
1407-2(2)
1407-3(3)
1407-1(1)
1407-4(4)

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 7 month 95 year

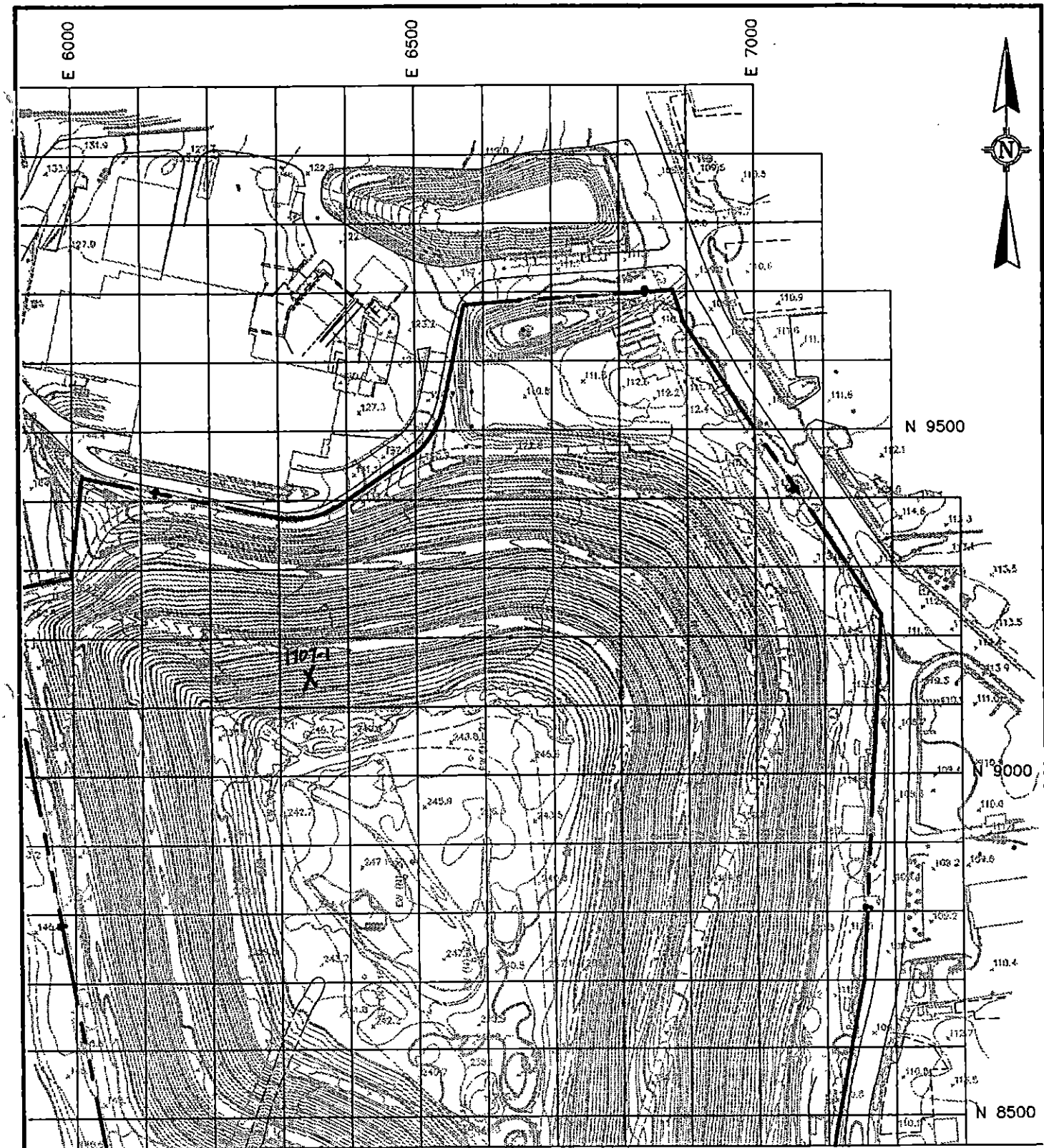
SPECIFICATION REQUIREMENTS

SOURCE: R-SCHLEIDER (SELECT) MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C /(ASTM D 1557: A B C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION (SELECT)	PROBE DEPTH/ DEPTH ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
1707-1	N 9150 E 6150 NORTH SLOPE	6"/9"/1	7.7	128.5	5.4	123.4	117.1	91.1	P			(D)
1707-2	CHANNEL A SEE SITE PLAN	6"/9"/3	7.7	128.5	4.9	114.6	109.8	85.0		F	1707-3'	(D)
1707-3	CHANNEL A " " "	6"/9"/3	7.7	128.5	5.4	123.8	117.4	91.4	P			(D)



DATE: 17-7-95

TROXLER DENSITY TEST LOCATION

SELECT FILL
1ST LIFT (90)

LAP MATCH TO FIGURE 1

0 100 200

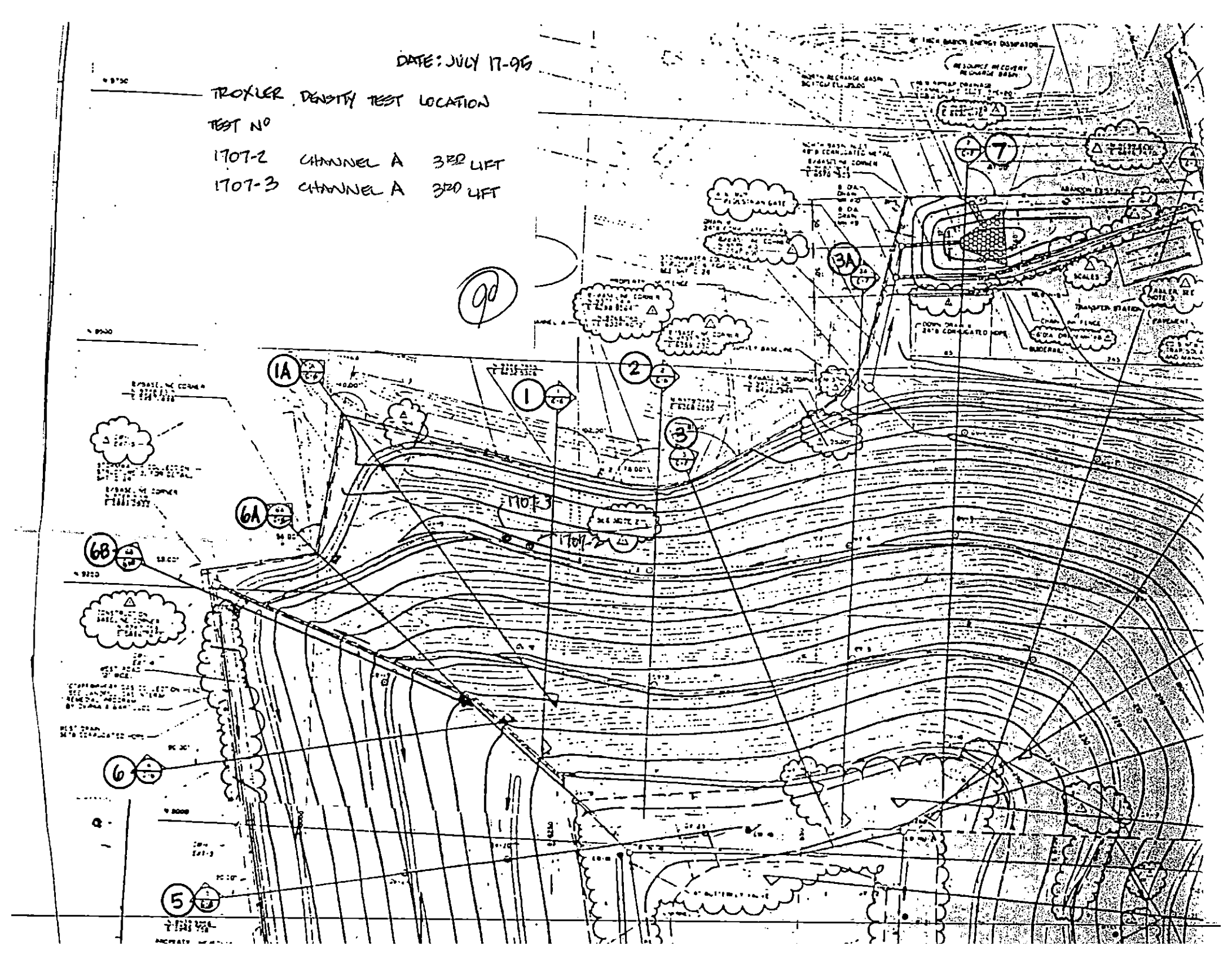
1 inch = 200 ft.

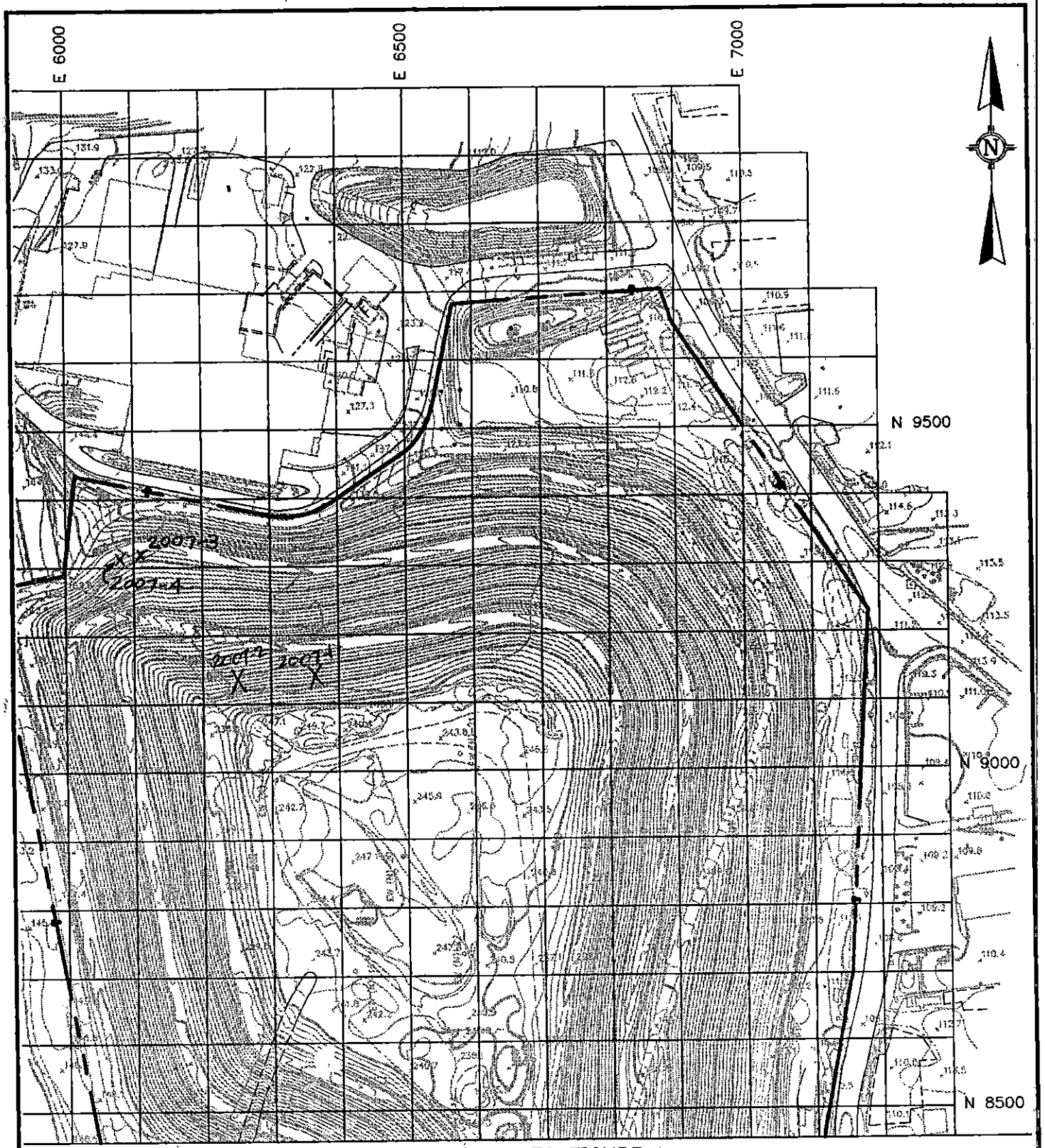
100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	


DATE: JULY 17-95
TROXLER DENSITY TEST LOCATION
TEST N°
1707-2 CHANNEL A 3RD LIFT
1707-3 CHANNEL A 3RD LIFT
90
1A
1
2
3
3A
5
6
6A
6B
7
1707-3
1707-2



DATE: 20-7-95
TROXLER COMPACTION TESTS
SELECT FILL 1ST LIFT

J. ALBERTS

LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GEOSYNTEC CONSULTANTS

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

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TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 07 month 95 year

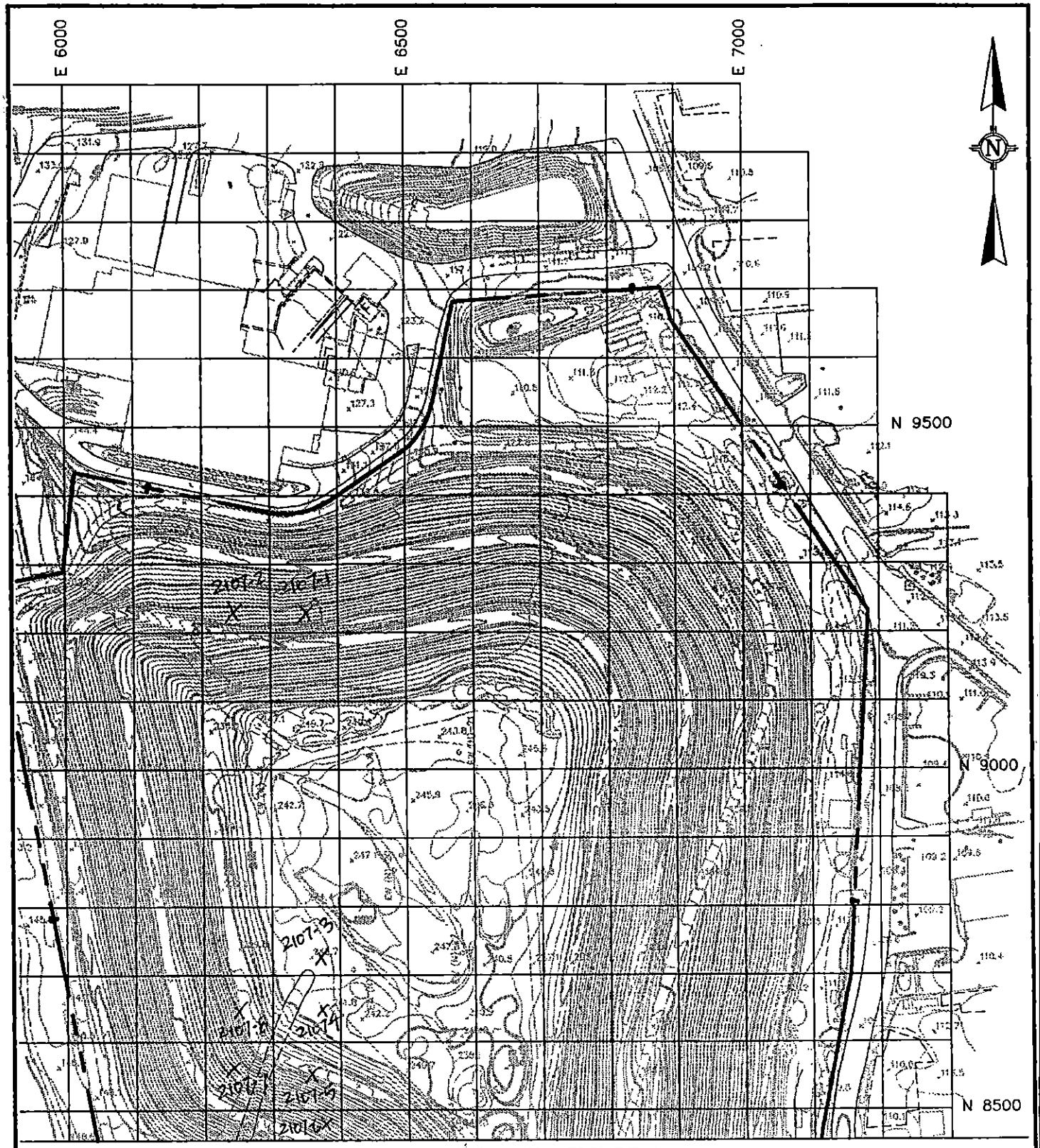
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"/8"C

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE AT DEPTH	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2107-1	N9250 E6340 N/SLOPE SELECT		6"/9"/1	7.8	130.4	8.2	129.4	119.2	91.4	P			
2107-2	N9245 E6250 "		6"/9"/1	7.8	130.4	6.5	127.4	119.6	91.7	P			
2107-3	N8150 @ N8230 E6360 W/SLOPE COMMON		6"/10"/1	8.5	128.5	8.1	130.1	120.4	93.7	P			
2107-4	N8660 E6350 "		6"/11"/1	8.5	128.5	8.4	131.0	120.9	94.1	P			
2107-5	N8540 E6350 "		6"/11"/1	8.5	128.5	6.2	127.2	119.7	93.1	P			
2107-6	N8460 E6345 "		6"/10"/1	8.5	128.5	7.9	127.7	118.3	92.1	P			
2107-7	N8550 E6260 "		6"/9"/1	8.5	128.5	7.9	126.4	117.2	91.2	P			
2107-8	N8650 E6260 "		6"/10"/1	8.5	128.5	8.0	125.5	116.2	91.4	P			



DATE: 21-7-95
TROXLER DENSITY TEST'S LOCATION
- SELECT FILL (SI)
- COMMON FILL (RETEST) (72)

LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day July month 1995 year

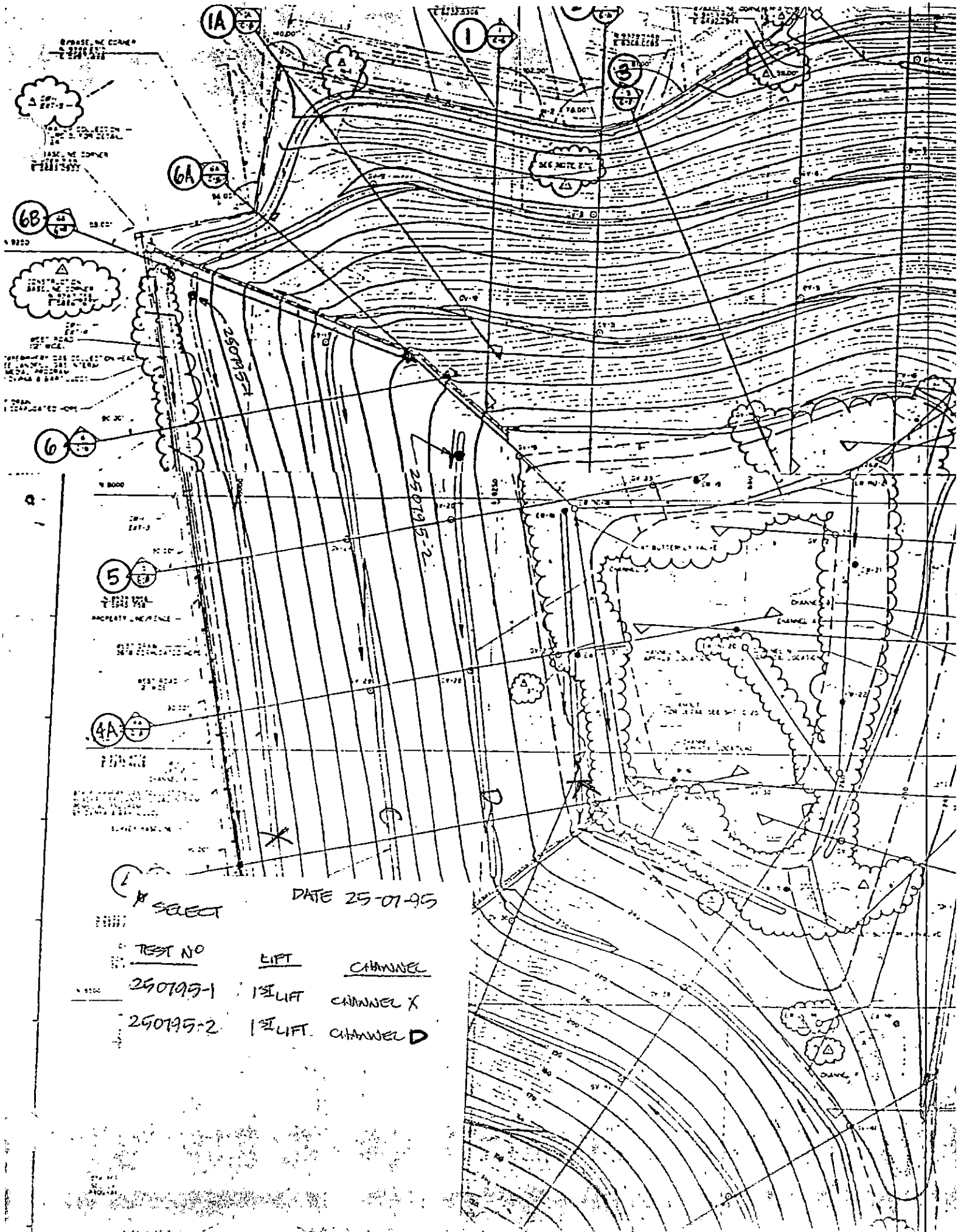
SPECIFICATION REQUIREMENTS

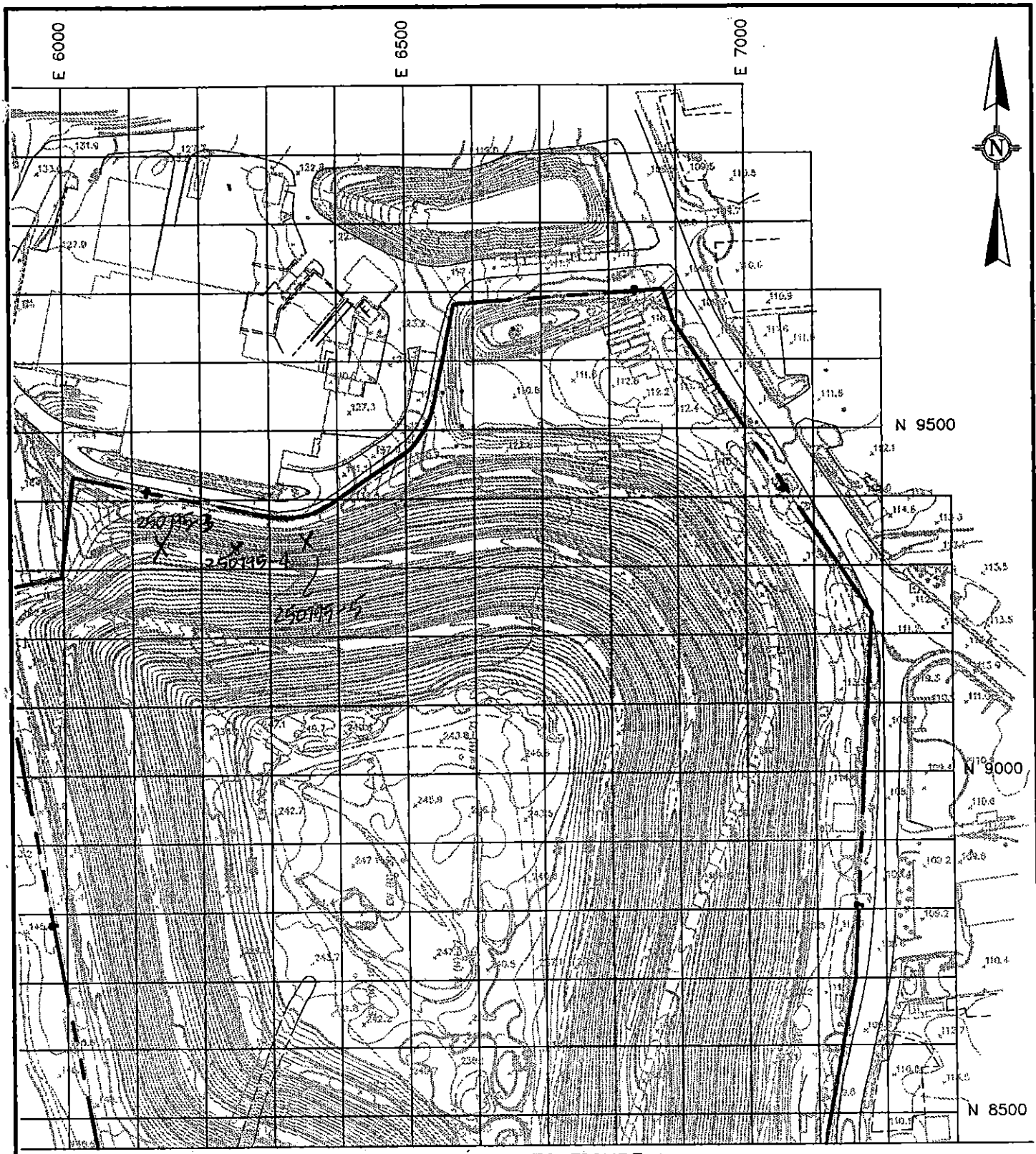
SOURCE: R. Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: 9" LIFT THICKNESS (LOOSE/(COMPACTED)): (CIRCLE ONE)

% COMPACTION: ≥90% - SELECT MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A) B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: Troxler 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
250795-1	Channel X	6"/9"/1:1	8.3	128.5	9.7	128.9	117.5	91.5	P			GD
-2	Channel D	"	↓	↓	9.6	130.4	119.0	92.6	P			GD
-3	N 93600 E 6185	6"/10"/1:1			8.7	125.4	115.3	90.0	P			GD
-4	N 9350 E 6255	6"/10"/1:1			8.3	126.4	116.7	90.8	P			GD
-5	N 9355 E 6345	6"/9.5"/1:1			8.7	133.2	122.6	95.4	P			GD


1A
1
3
6A
6B
6
5
4A
250795-1
250795-2
DATE 25-01-95
SELECT
TEST NO
LIFT
CHANNEL
250795-1
1ST LIFT
CHANNEL X
250795-2
1ST LIFT
CHANNEL D



DATE: 25-07-95
TROXLER TEST
LOCATIONS
SELECT FILL 1ST LIFT

LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

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DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
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GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 07 month 95 year

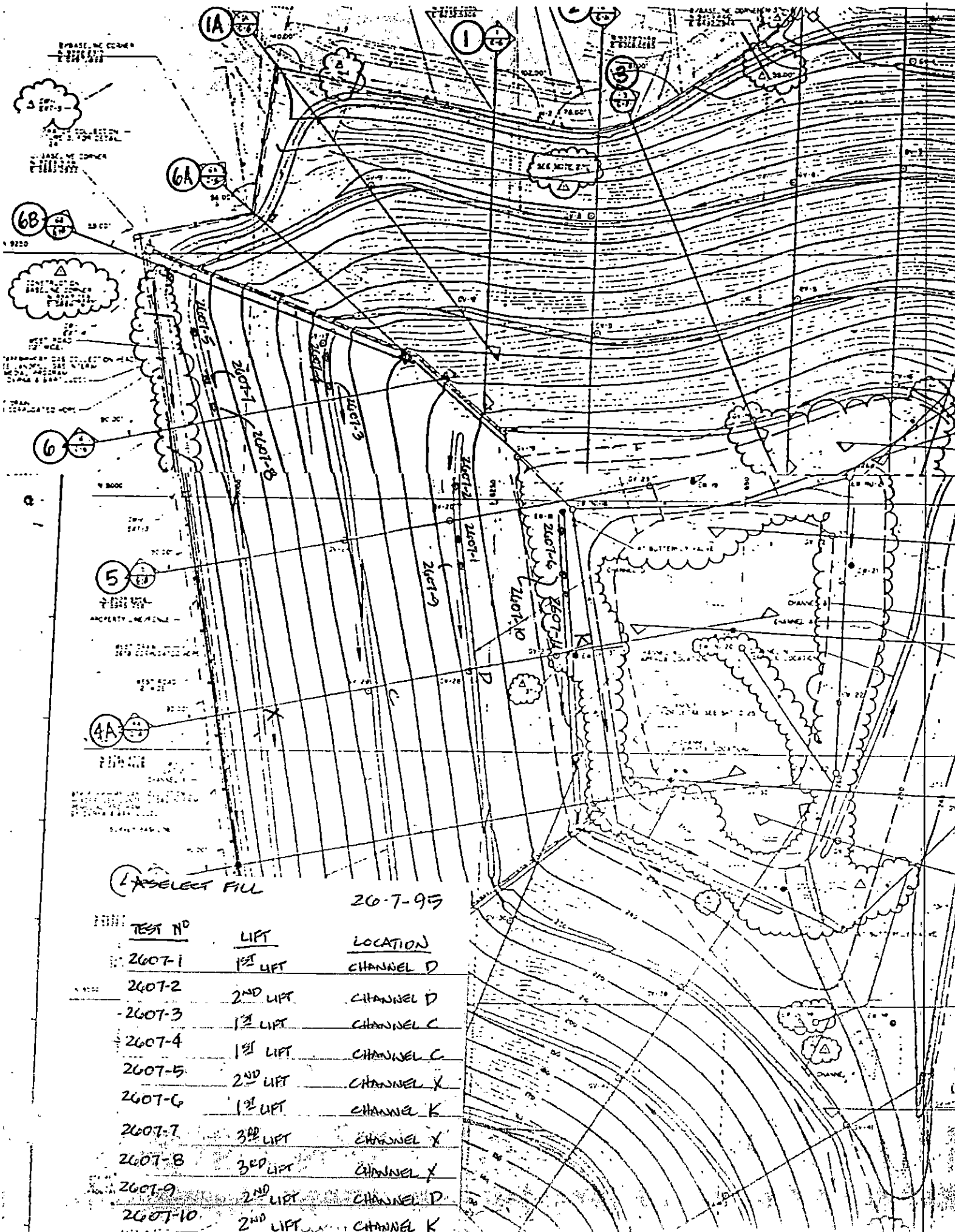
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9" 18"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: ✓

TEST NO.	TEST LOCATION (SELECT)	PROBE DEPTH/ ELEV/ LIFT NO. (ACT DEPTH)	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2607-1	CHANNEL D SEE SITE PLAN	6"/18"/1	7.8	130.4	9.9	133.8	121.7	93.3	P			(9)
2607-2	CHANNEL D "	6"/9"/2	7.8	130.4	8.9	127.9	117.5	90.1	P			(2)
2607-3	CHANNEL C "	6"/18"/1	7.8	130.4	7.8	124.2	115.2	88.4	(P)X	F	2607-4	(7)
2607-4	CHANNEL C "	6"/18"/1	7.8	130.4	8.6	129.0	118.8	91.1	P			(2)
2607-5	CHANNEL K "	6"/9"/2	7.8	130.4	7.6	127.1	118.1	90.6	P			(9)
2607-6	CHANNEL K "	6"/18"/1	7.8	130.4	8.0	126.7	117.3	90.0	P			(2)
2607-7	CHANNEL K "	6"/9"/3	7.8	130.4	7.5	123.1	114.5	87.8	(P)X	F	2607-8	(2)
2607-8	CHANNEL K "	6"/9"/3	7.8	130.4	7.5	126.3	117.4	90.1	P			(2)
2607-9	CHANNEL D "	6"/9"/2	7.8	130.4	8.4	127.1	117.3	90.0	P			(2)
2607-10	CHANNEL K "	6"/9"/2	7.8	130.4	9.1	126.5	117.8	90.3	P			(2)
2607-11	CHANNEL K "	6/9/3	7.8	130.4	8.8	128.4	118.0	90.5	P			DW



(L) SELECT FILL

2607-9 ⇒

TEST NO	LIFT	LOCATION
2607-1	1ST LIFT	CHANNEL D
2607-2	2ND LIFT	CHANNEL D
2607-3	1ST LIFT	CHANNEL C
2607-4	1ST LIFT	CHANNEL C
2607-5	2ND LIFT	CHANNEL X
2607-6	1ST LIFT	CHANNEL K
2607-7	3RD LIFT	CHANNEL X
2607-8	3RD LIFT	CHANNEL X
2607-9	2ND LIFT	CHANNEL D
2607-10	2ND LIFT	CHANNEL K

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TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 7 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER (SELECT) MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B C —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE ACT DEPTH/ELEV/LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2707-1	CHANNEL D SELECT SEE SITE MAP	6"/9"/3	7.8	130.4	8.3	128.2	118.4	90.8	P			
2707-2	CHANNEL C "	6"/9"/2	7.8	130.4	6.9 8.3 (R)	121.3	113.5	87.0		F	2707-3	
2707-3	CHANNEL C "	6"/9"/2	7.8	130.4	7.0	127.0	118.7	91.0 (R)	P			
2707-4	N8950 E6450 WEST SLOPE	6"/10"/1	7.8	130.4	8.1	130.4	120.5	92.4	P			
2707-5	N8950 E6340 WEST SLOPE	6"/9"/1	7.8	130.4	9.0	132.6	121.7	93.3	P			
2707-6	N9250 E6450 NORTHWEST (R) SLOPE	6"/9.5"/1	7.8	130.4	5.8	124.1	117.3	90.0	P			
2707-7	N9240 E6350 NORTHWEST (R) SLOPE	6"/9.5"/1	7.8	130.4	5.7	124.1	117.4	90.0	P			
2707-8	N9255 E6250 NORTH SLOPE	6"/10"/1	7.8	130.4	5.9	125.6	118.7	91.0	P			
2707-9	N9270 E6125 NORTH SLOPE	6"/10"/1	7.8	130.4	8.2	129.1	119.2	91.4	P			
2707-10	N9240 E6040 NORTH SLOPE	6"/9"/1	7.8	130.4	7.9	130.4	120.9	92.7	P			
2707-11	N9150 E5950 WEST SLOPE	6"/9"/1	7.8	130.4	6.5	129.5	121.6	93.3	P			
2707-12	N9055 E6020 WEST SLOPE	6"/9"/1	7.8	130.4	5.9	125.9	118.8	91.1	P			
2707-13	N9050 E5900 WEST SLOPE	6"/9"/1	7.8	130.4	7.1	120.4	116.0	90.5	P			
2707-14	N9330 E6060 NORTH SLOPE	6"/9"/1	7.8	130.4	5.0	123.2	117.3	90.0	P			

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TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 7 month 95 year

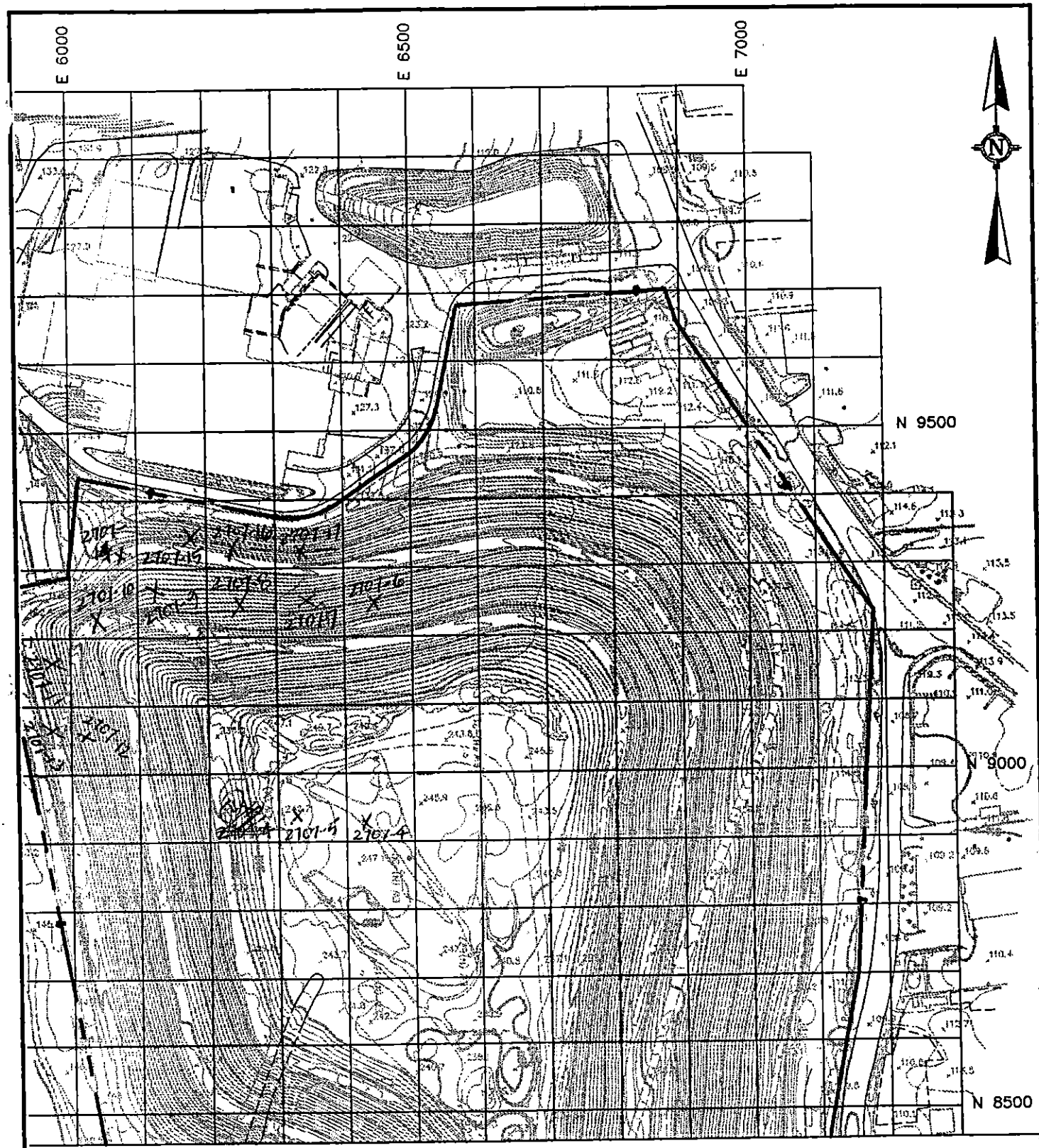
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER (SELECT MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557): A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2707-15	N9350 E6165 SELECT NORTH SLOPE	6"/9.5"/1	7.8	130.4	6.0	124.4	117.4	90.0	P			(92)
2707-16	N9350 E6240 "	6"/10"/1	7.8	130.4	5.7	124.3	117.6	90.2	P			(93)
2707-17	N9355 E6340 "	6"/9"/1	7.8	130.4	5.5	124.3	117.8	90.3	P			



LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

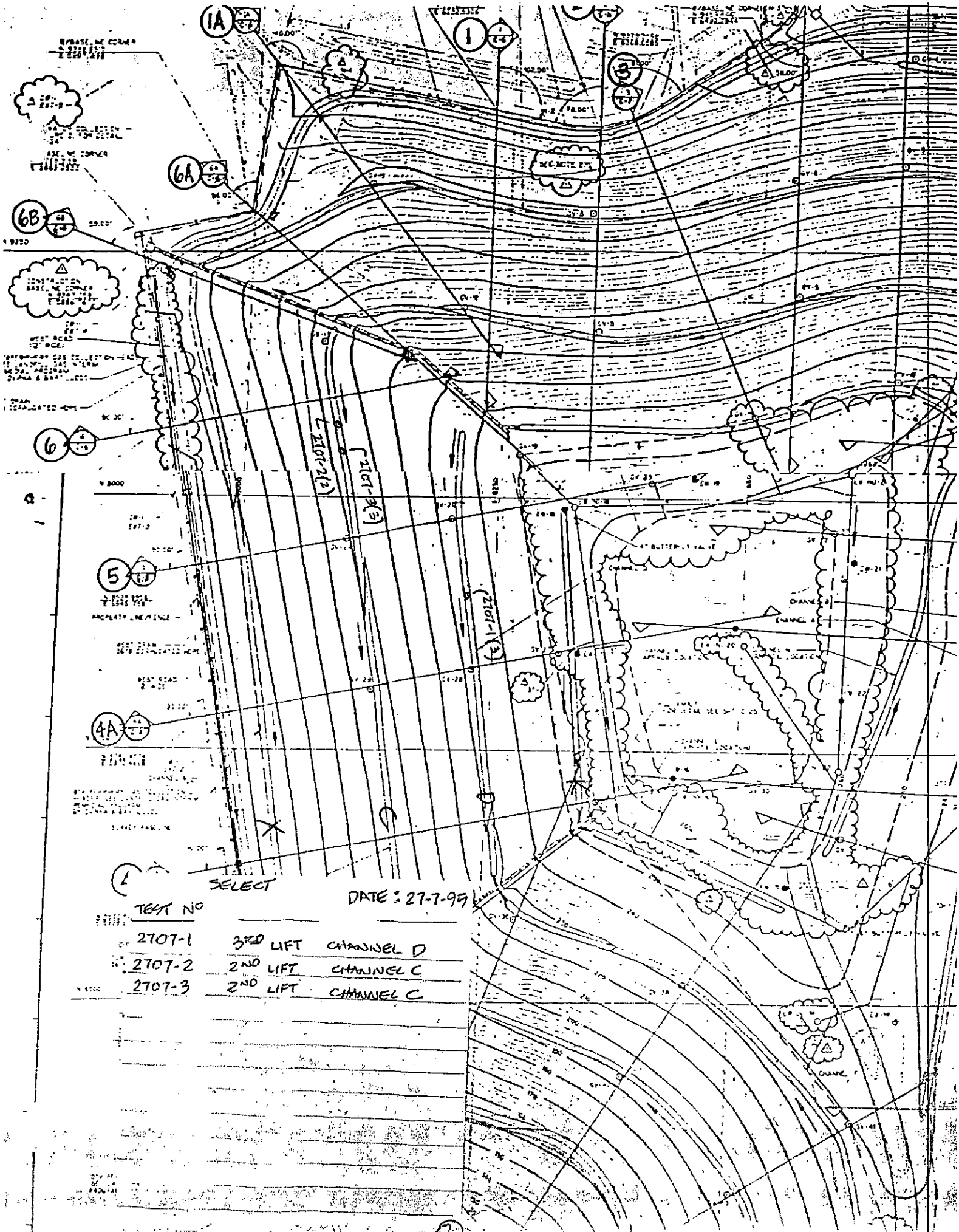
DATE: 27-7-95
TROXLER DENSITY TESTS
SELECT FILL 1ST LIFT

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	


1A
1
3
6A
6B
6
5
4A
2707-2(2)
2707-3(3)
2707-1(3)
SELECT
DATE : 27-7-95
TEST NO
2707-1 3RD LIFT CHANNEL D
2707-2 2ND LIFT CHANNEL C
2707-3 2ND LIFT CHANNEL C

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 07 month 95 year

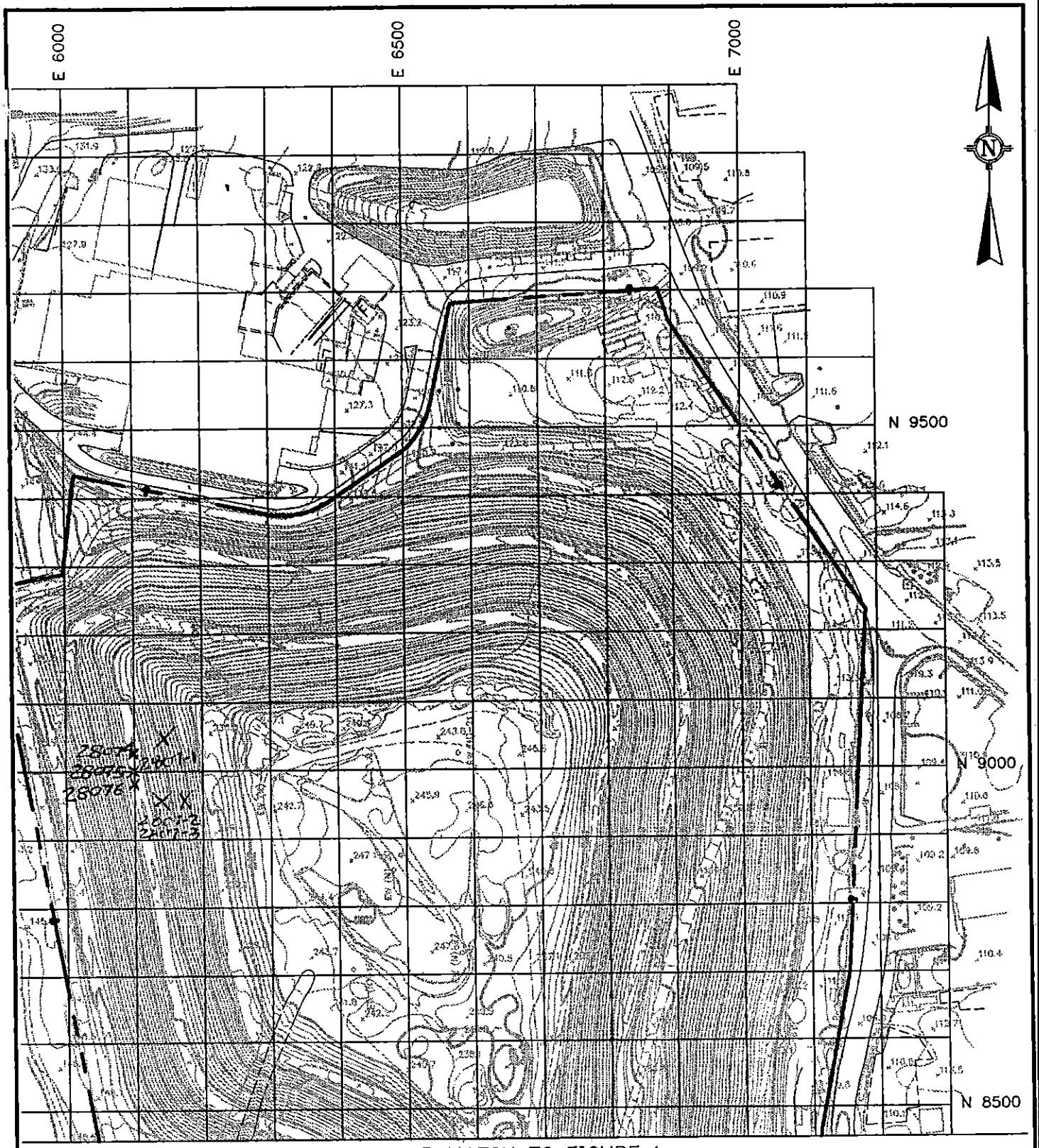
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER (SELECT MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED): 9"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2807-1	N9050 E6150 SELECT WEST SLOPE	6"/9"/1	7.8	130.4	8.2	121.0	117.4	90.0	P			(2)
2807-2	N8940 E6150 "	6"/9"/1	7.8	130.4	9.0	124.4	114.2	87.6		F	2807-3	(2)
2807-3	N8950 E6160 "	6"/9"/1	7.8	130.4	8.7	121.6	117.4	90.0	P			(2)
2807-4	CHANNEL C 1ST	6/18/1	7.8	130.4	9.2	129.2	118.3	90.7	P			DW
2807-5	CHANNEL C 2ND	6/9/2	7.8	130.4	8.8	127.9	117.6	90.2	P			DW
2807-6	CHANNEL C 3RD	6/9/3	7.8	130.4	9.1	128.6	117.9	90.4	P			DW



DATE: 28-07-95
TROXLER TESTS
LOCATION
SELECT FILL 12" LIFT

LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 31 day 07 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER (SELECT MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE (COMPACTED): 18" 9"

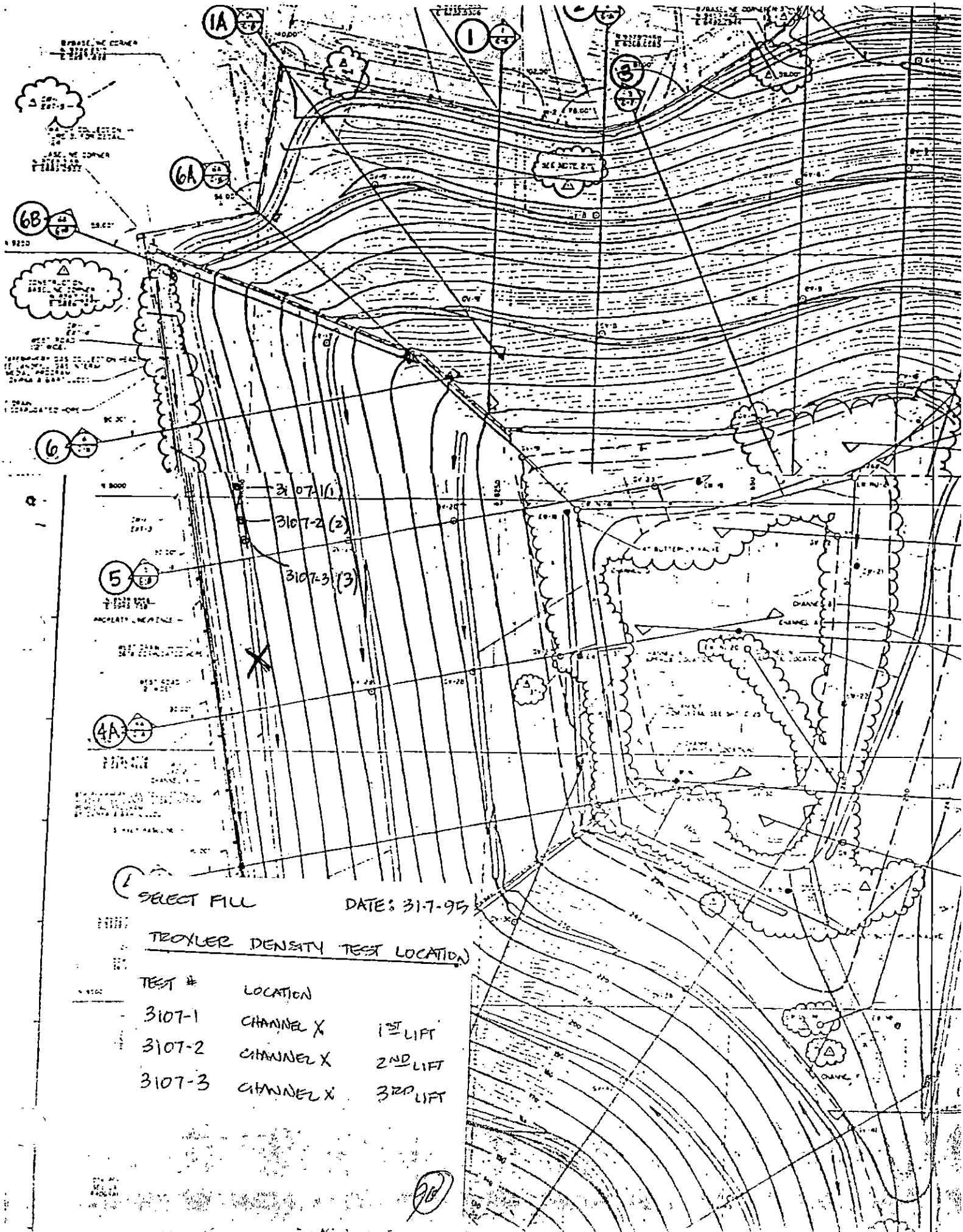
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION SELECT	PROBE ACT DEPTH / DEPTH ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
3107-1	CHANNEL X SEE SITE PLAN	6"/18"/1	7.8	130.4	8.4	128.6	118.7	91.0	P			(JD)
3107-2	CHANNEL X "	6"/9"/2	7.8	130.4	8.4	128.3	118.4	90.8	P			(JD)
3107-3	CHANNEL X "	6"/9"/3	7.8	130.4	9.4	128.4	117.4	90.0	P			(JD)



SELECT FILL

DATE: 31-7-95

TROXLER DENSITY TEST LOCATION

TEST #	LOCATION	
3107-1	CHANNEL X	1ST LIFT
3107-2	CHANNEL X	2ND LIFT
3107-3	CHANNEL X	3RD LIFT

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 1 day 8 month 95 year

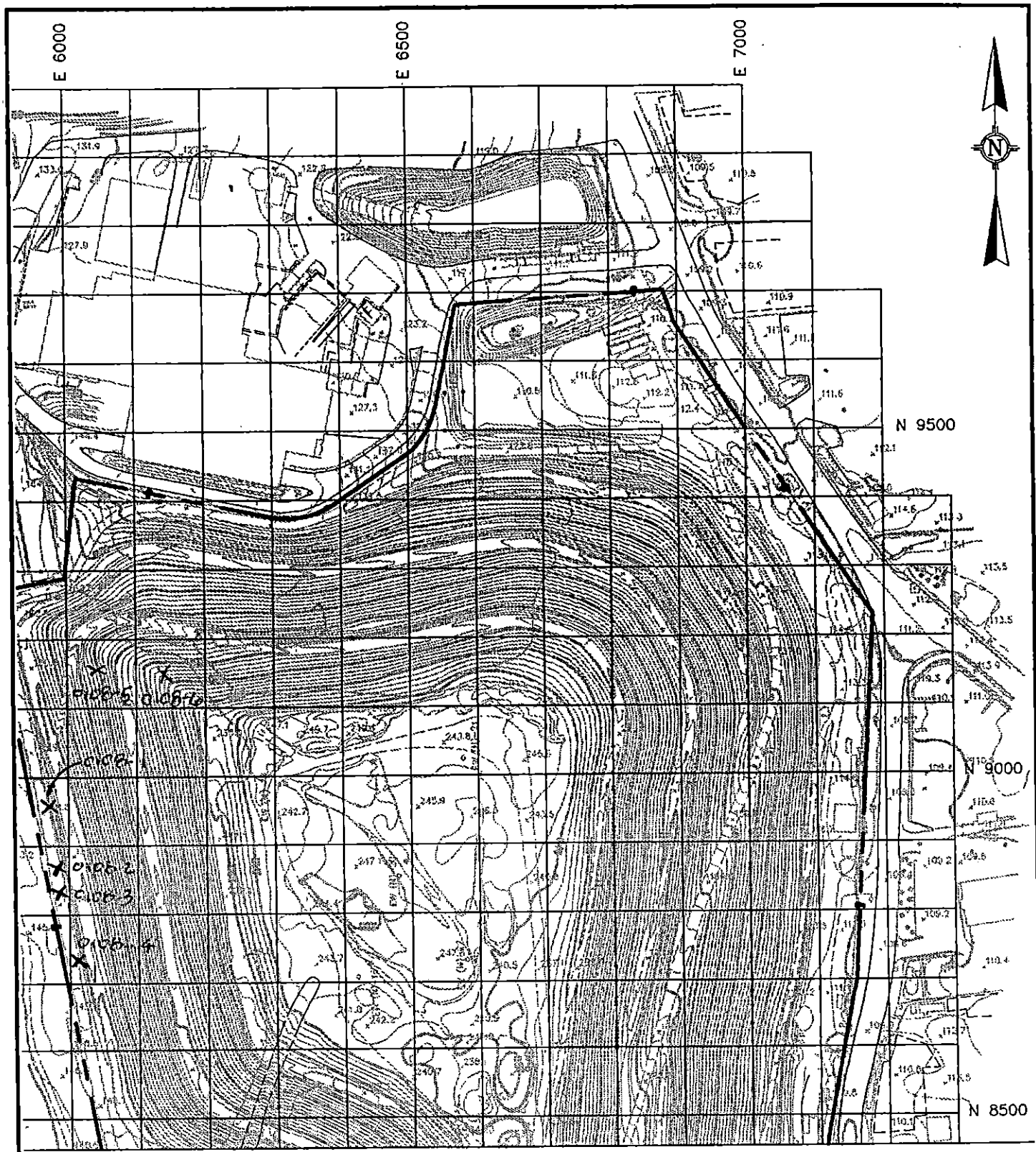
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER (SELECT) MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ACT DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
0108-1	N8450 E5980 SELECT WEST SLOPE	6"/9"/1	7.8	130.4	6.8	127.7	119.5	91.7	P			(JD)
0108-2	N8850 E5970 "	6"/9.5"/1	7.8	130.4	8.3	122.9	113.5	87.0		F	0108-3	(JD)
0108-3	N8860 E5985 "	6"/9.5"/1	7.8	130.4	8.8	121.1	117.4	90.0	P			(JD)
0108-4	N8150 E6020 "	6"/9"/1	7.8	130.4	7.6	126.9	117.9	90.4	P			(JD)
0108-5	N9150 E6030 "	6"/8.5"/1	7.8	130.4	6.2	128.7	121.2	93.0	P			(JD)
0108-6	N9150 E6150 "	6"/9"/1	7.8	130.4	6.7	126.9	119.0	91.3	P			(JD)
0108-7	CHANNEL X SEE SITE PLAN	6"/18"/1	7.8	130.4	6.5	126.0	117.4	90.0	P			(JD)



DATE: 1-8-95

TROXLER DENSITY TESTS LOCATION

1'± LIFT SELECT FILL (2)

LAP MATCH TO FIGURE 1

0 100 200

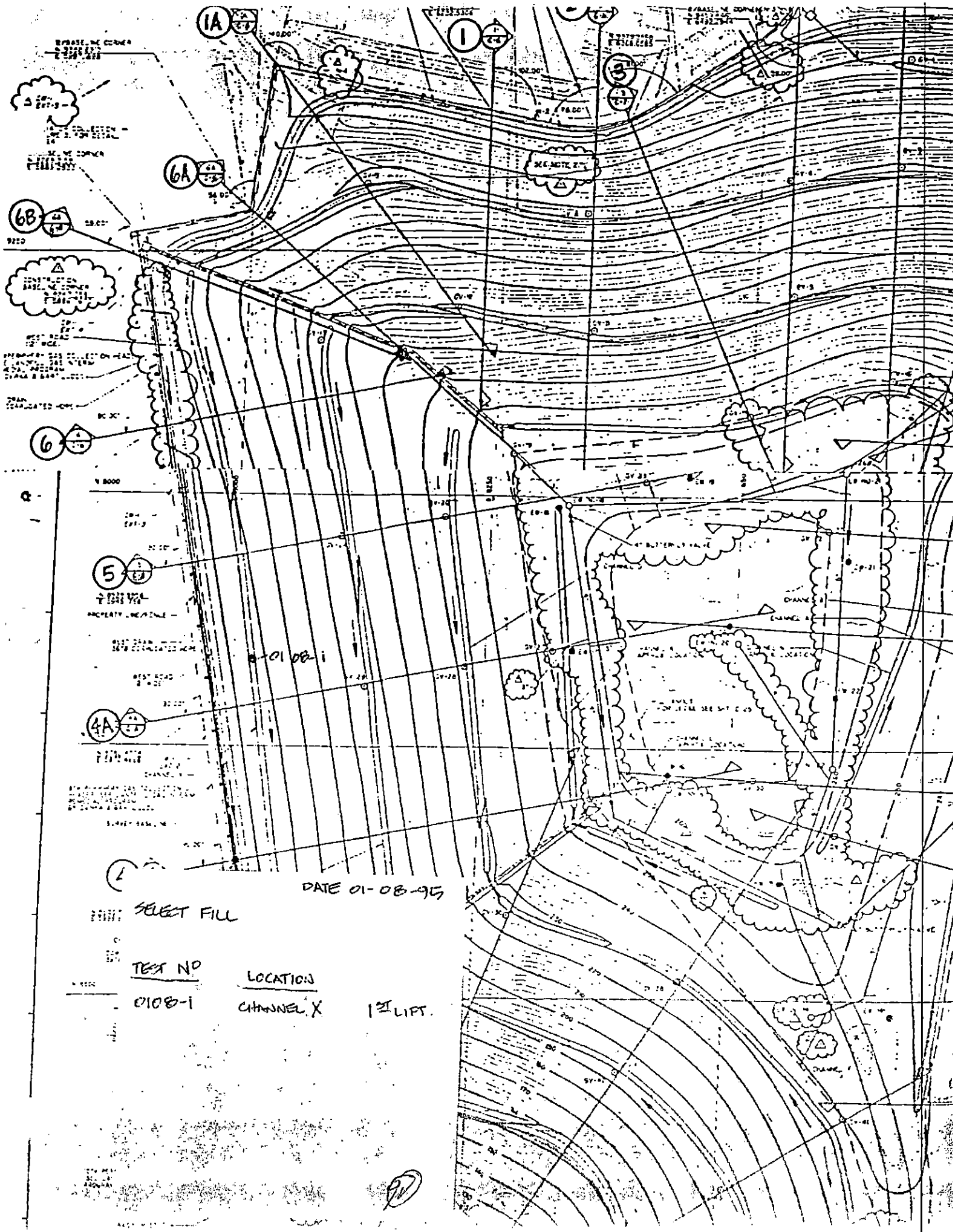
1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	


1A
1
3
6A
6B
6
5
4A
0108-1
DATE 01-08-95
SELECT FILL
TEST NO
LOCATION
0108-1
CHANNEL X
1ST LIFT.

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 2 day 8 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER (SELECT) MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED) 9"

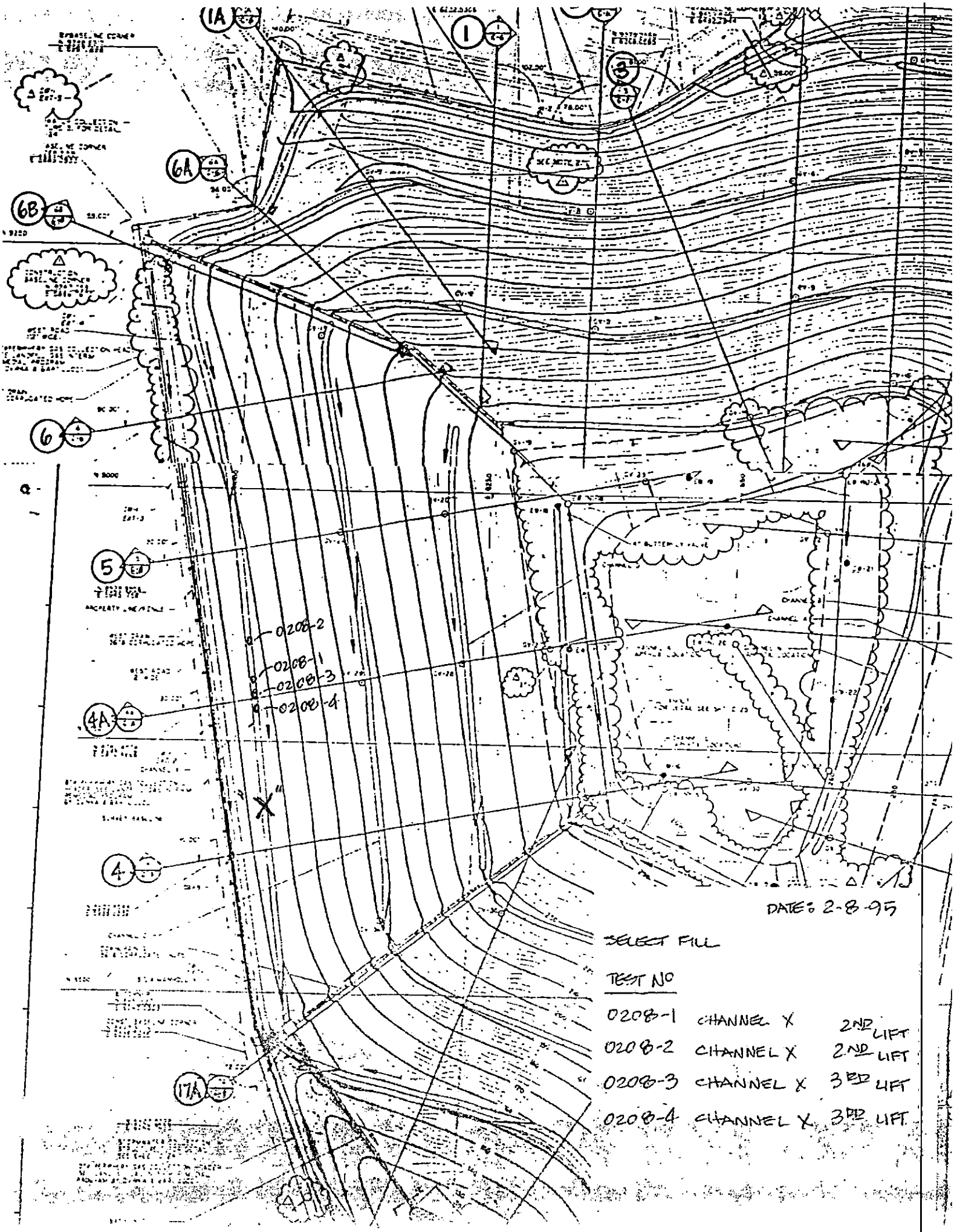
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A B (C) —

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION SELECT	PROBE ACT DEPTH / DEPTH ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
0208-1	CHANNEL X SEE SITE PLAN	6"/9"/2	7.8	130.4	7.8	129.9	116.7	89.5	(R)	F	0208-2	(2)
0208-2	CHANNEL X SEE SITE PLAN	6"/9"/2	7.8	130.4	7.7	126.3	117.3	90.0	P			(2)
0208-3	CHANNEL X "	6"/9"/3	7.8	130.4	8.3	123.6	114.1	87.5		F	0208-4	(2)
0208-4	CHANNEL X "	6"/9"/3	7.8	130.4	8.0	127.8	118.3	90.7	P			(2)



DATE: 2-8-95

SELECT FILL

TEST NO		
0208-1	CHANNEL X	2ND LIFT
0208-2	CHANNEL X	2ND LIFT
0208-3	CHANNEL X	3RD LIFT
0208-4	CHANNEL X	3RD LIFT

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 4 day 8 month 95 year

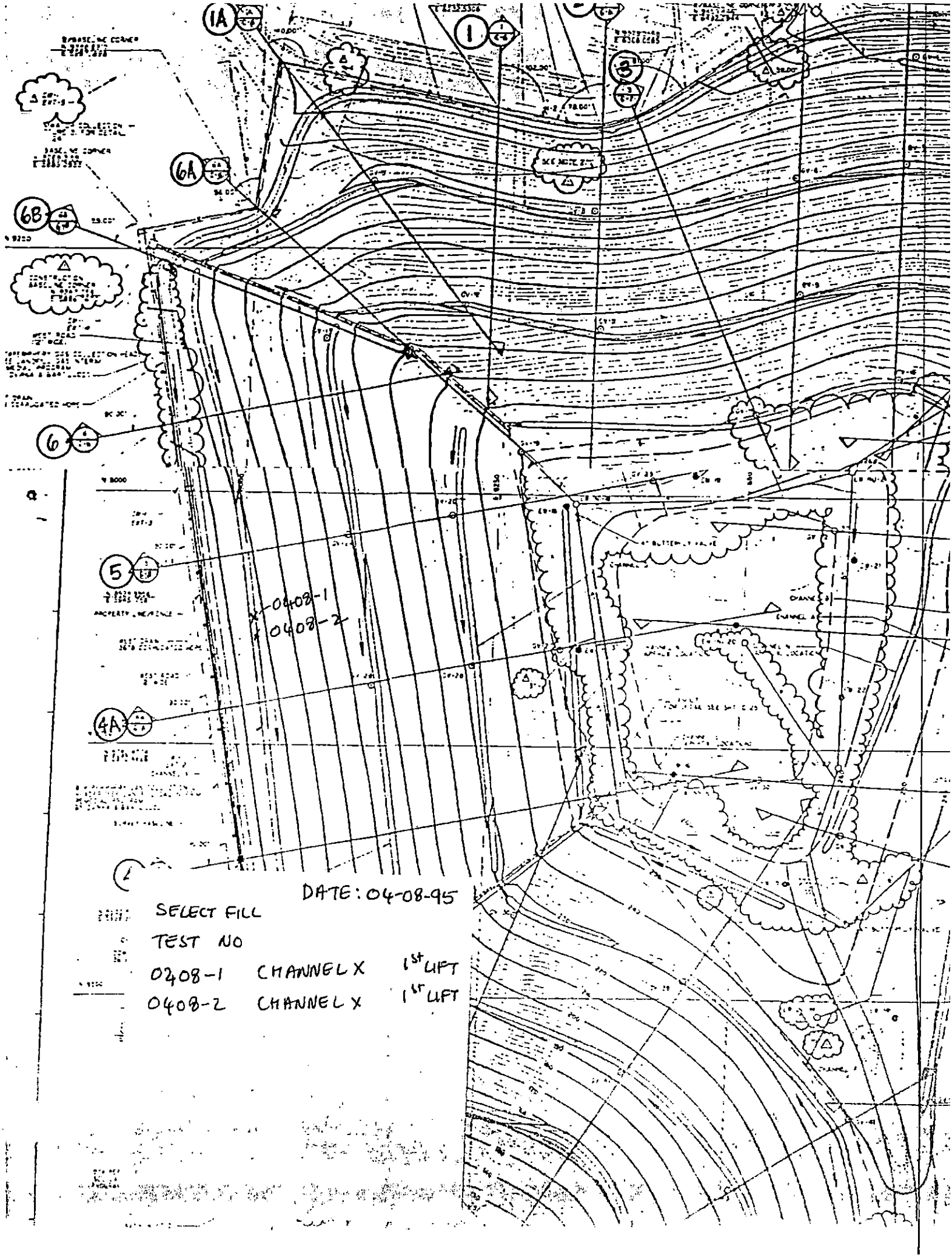
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER (SELECT) MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/COMPACTED): —
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B (C) —
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: — NUCLEAR GAUGE SERIAL NO. — COR. FACTOR: —

TEST NO.	TEST LOCATION SELECT	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
0408-1	Channel X See SITE Plan	6"	7.8	130.4	6.9	115.3	107.8	82.6		F		Sonk
0408-2	Channel X See SITE Plan	6"	7.8	130.4	11.0	120.8	108.8	83.4		F		Sonk


1A
1
3
6A
6B
6
5
4A
0408-1
0408-2
DATE: 04-08-95
SELECT FILL
TEST NO
0408-1 CHANNEL X 1ST LIFT
0408-2 CHANNEL X 1ST LIFT

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 08 month 95 year

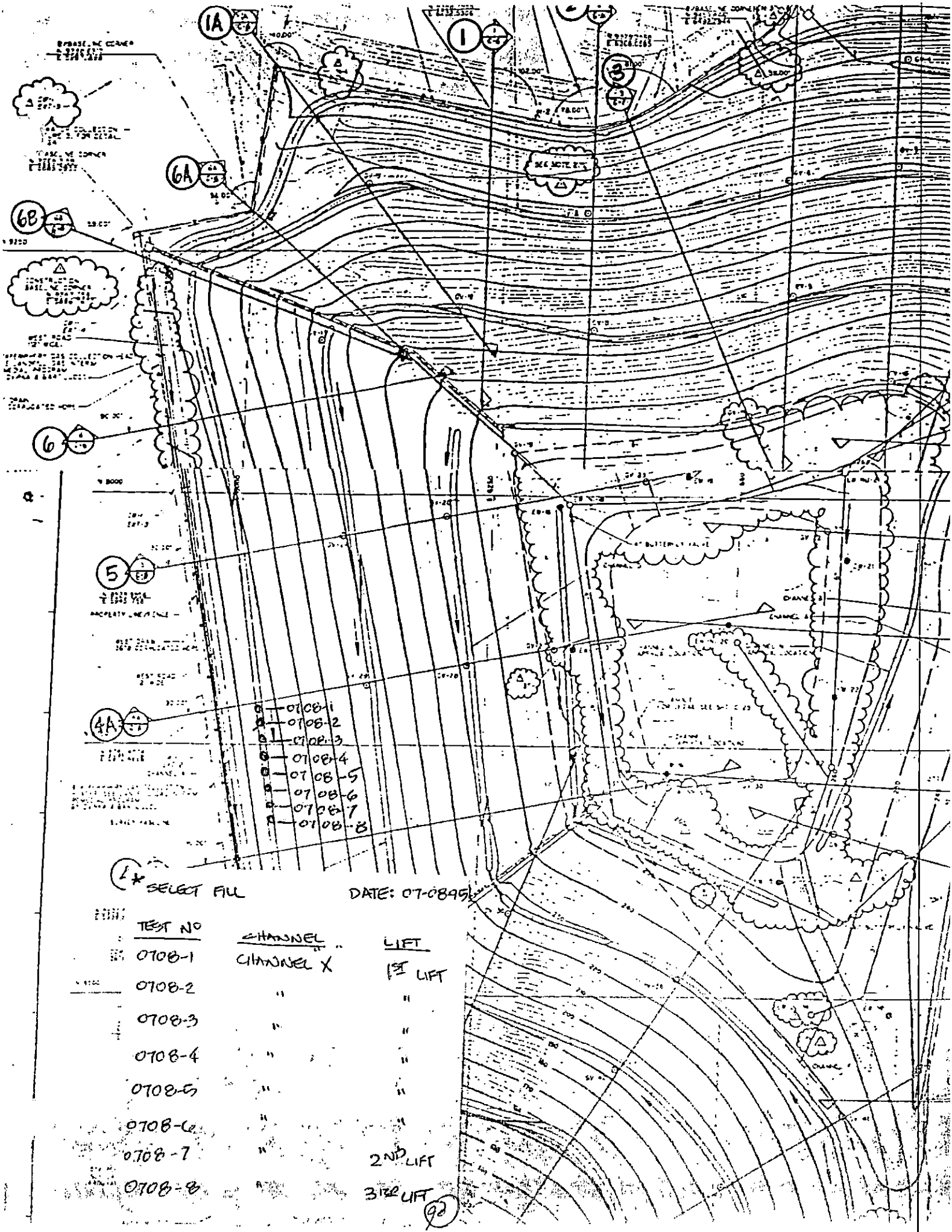
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER (SELECT MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE (COMPACTED): 18" 9"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A B C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION SELECT	PROBE ACT DEPTH / DEPTH ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
0708-1	CHANNEL X SEE SITE PLAN	6"/18"/1	7.8	130.4	13.6	126.9	111.7	85.7		F	0708-2	(P)
0708-2	CHANNEL X "	6"/18"/1	7.8	130.4	8.6	123.1	113.4	86.9		F	0708-3	(P)
0708-3	CHANNEL X "	6"/18"/1	7.8	130.4	9.9	126.5	115.1	88.3		F	0708-4	(P)
0708-4	CHANNEL X "	6"/18"/1	7.8	130.4	9.5	122.9	112.2	86.1		F	0708-5	(P)
0708-5	CHANNEL X "	6"/18"/1	7.8	130.4	10.7	124.7	112.7	86.4		F	0708-6	(P)
0708-6	CHANNEL X "	6"/18"/1	6.1 7.8 (P)	130.3 130.4 (P)	8.3	127.9	118.1	90.6	P			(P)
0708-7	CHANNEL X "	6"/9"/2	6.7	130.3	8.5	127.3	117.4	90.1	P			(P)
0708-8	CHANNEL X "	6"/9"/3	6.7	130.3	6.9	127.2	119.0	91.3	P			(P)



SELECT FILL

DATE: 07-08-95

TEST NO	CHANNEL	LIFT
0708-1	CHANNEL X	1ST LIFT
0708-2	"	"
0708-3	"	"
0708-4	"	"
0708-5	"	"
0708-6	"	"
0708-7	"	2ND LIFT
0708-8	"	3RD LIFT

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 08 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEICHER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE (COMPACTED)) 12"

% COMPACTION: ≥ 90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ACT DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
0808-1	N7950 E6050 WEST SLOPE COMMON FILL RETEST	6" / 9" / 1	8.5	128.5	6.5	123.1	116.0	90.0	P			(20)
0808-2	N8050 E6650 WEST SLOPE COMMON	6" / 9" / 1	8.5	128.5	6.9	123.7	115.8	90.1	P			(21)
0808-3	N7850 E6450 "	6" / 10" / 1	8.5	128.5	4.1	120.3	115.6	90.0	P			(22)
0808-4	N7150 E6450 "	6" / 8" / 1	8.5	128.5	6.6	123.8	116.1	90.4	P			(23)
0808-5	N7850 E6650 "	6" / 9" / 1	8.5	128.5	4.7	124.4	118.8	92.4	P			(24)
0808-6	N7750 E6450 "	6" / 9" / 1	8.5	128.5	5.1	121.8	115.9	90.2	P			(25)
0808-7	N7650 E6650 "	6" / 10" / 1	8.5	128.5	4.1	122.9	118.0	91.8	P			(26)
0808-8	N7650 E6450 "	6" / 9" / 1	8.5	128.5	5.9	123.4	116.5	90.7	P			(27)
0808-9	N7550 E6475 "	6" / 10" / 1	8.5	128.5	5.4	122.6	116.3	90.5	P			(28)
0808-10	N7450 E6450 "	6" / 9" / 1	8.5	128.5	4.8	122.4	116.1	90.8	P			(29)
0808-11	N7350 E6475 "	6" / 9" / 1	8.5	128.5	4.0	126.8	121.9	94.9	P			(30)
0808-12	N8650 E6040 SELECT WHT SLOPE	6" / 9" / 1	6.6	128.9	6.1	120.1	113.2	87.8		F	0808-13	(31)
0808-13	N8640 E6040 "	6" / 10" / 1	6.6	128.9	7.8	129.9	120.4	93.4	P			(1)
0808-14	N8675 E6030 "	6" / 10" / 1	6.6	128.9	9.0	127.5	117.0	90.8	P			(2)

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 08 day 08 month 95 year

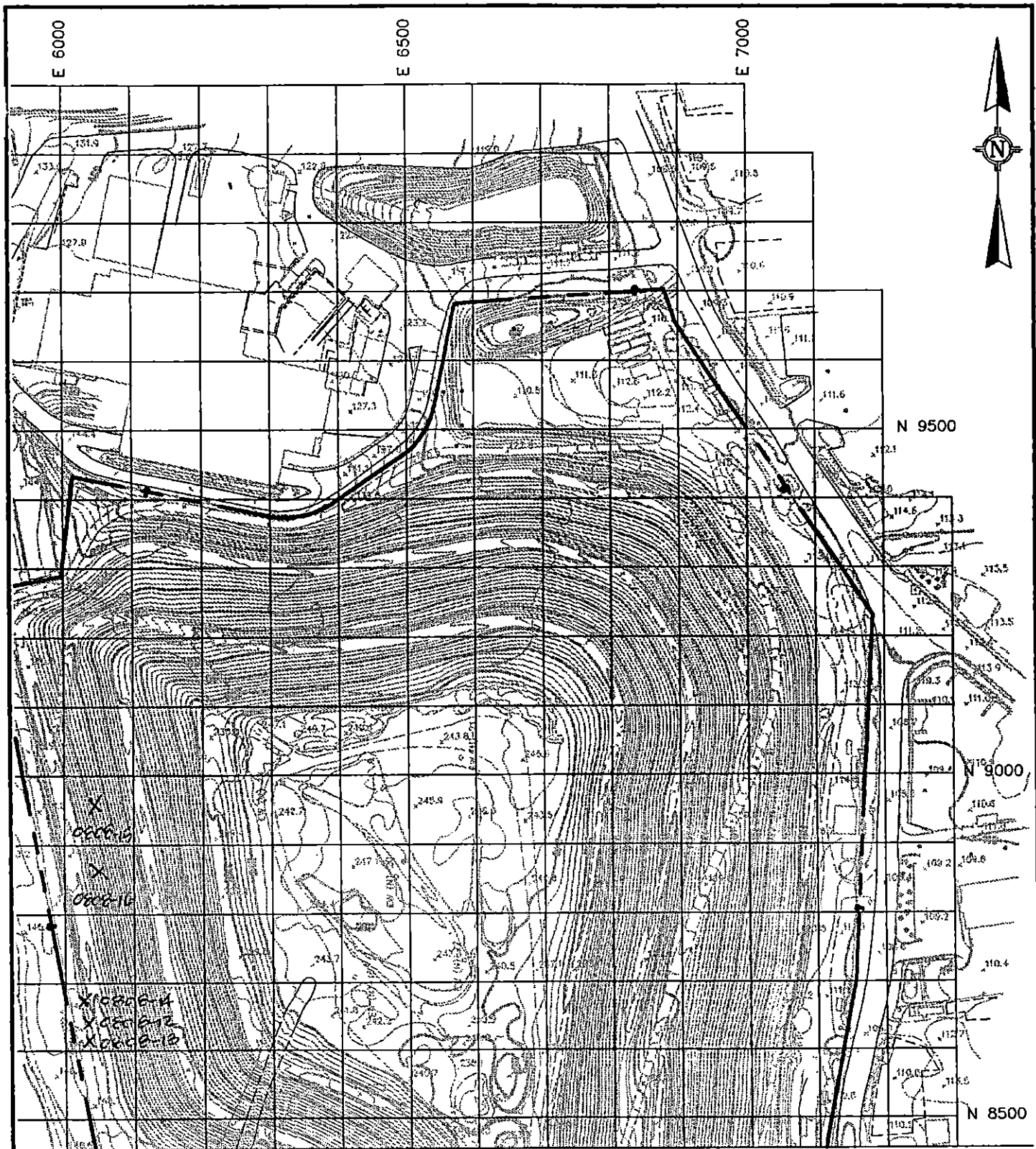
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
0808-15	N8950' E6050 @ SELECT WEST SLOPE	6"/10"/1	6.6	128.9	8.6	128.3	118.1	91.6	P			(2)
0808-16	N8850' E6050 "	6"/9.5"/1	6.6	128.9	8.4	126.0	116.2	90.1	P			(2)



DATE: 08-08-95 LAP MATCH TO FIGURE 1

TROXLER DENSITY TESTS LOCATION SELECT FILL

0 100 200

1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 08 month 95 year

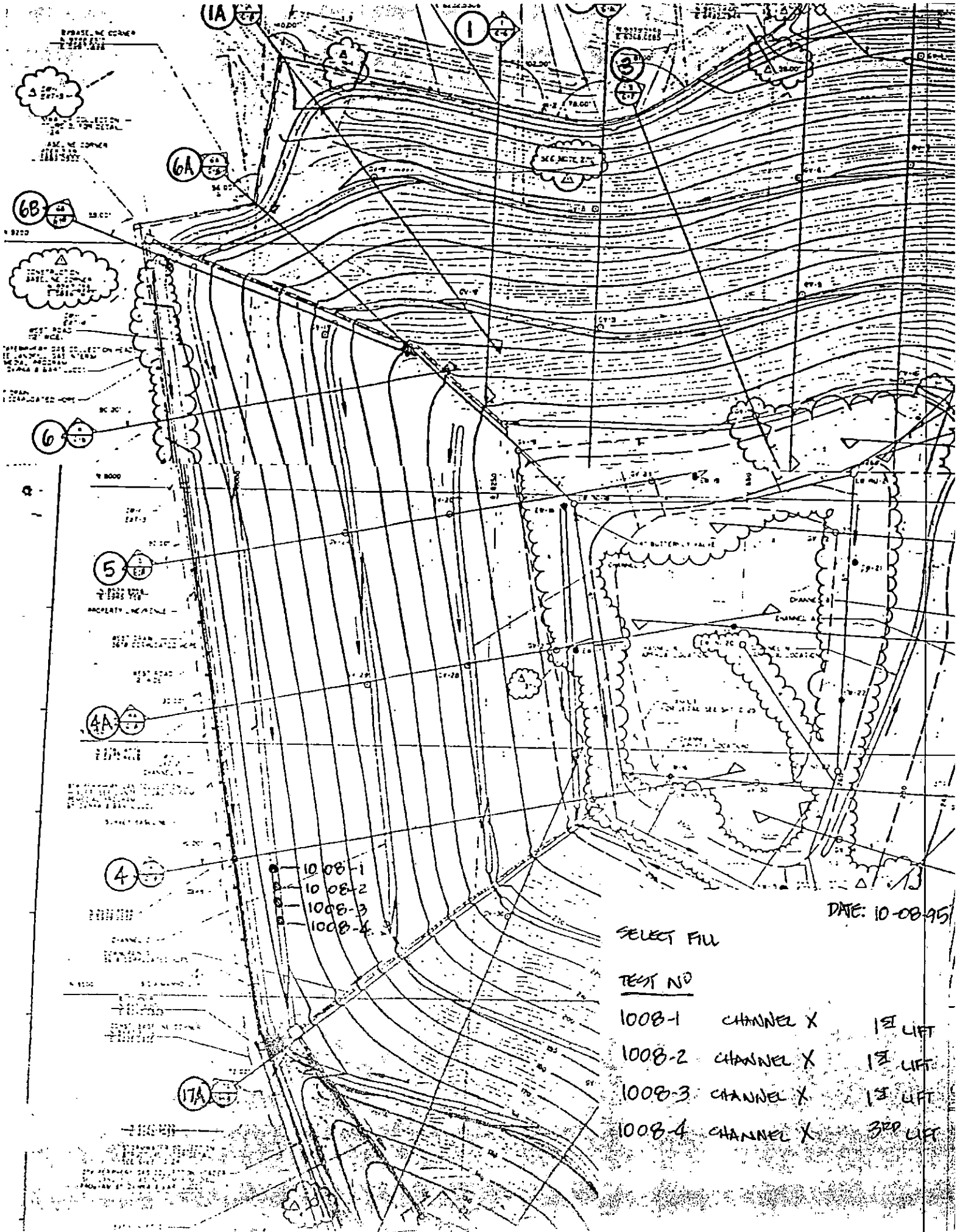
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / COMPACTED): 9"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION SELECT	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
1008-1	CHANNEL X SITE PLAN	6"/9"/1	6.6	128.9	8.0	122.8	113.7	88.7		F	1008-3	
1008-2	CHANNEL X "	6"/9"/1	6.6	128.9	8.1	119.3	110.4	85.6		F	1008-4	
1008-3	CHANNEL X "	6"/9"/1	6.6	128.9	7.1	124.2	116.0	90.0	P			
1008-4	CHANNEL X "	6"/9"/3	6.6	128.9	8.7	127.3	117.1	90.9	P			



DATE: 10-08-95

SELECT FILL

TEST NO		
1008-1	CHANNEL X	1ST LIFT
1008-2	CHANNEL X	1ST LIFT
1008-3	CHANNEL X	1ST LIFT
1008-4	CHANNEL X	3RD LIFT

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 08 month 95 year

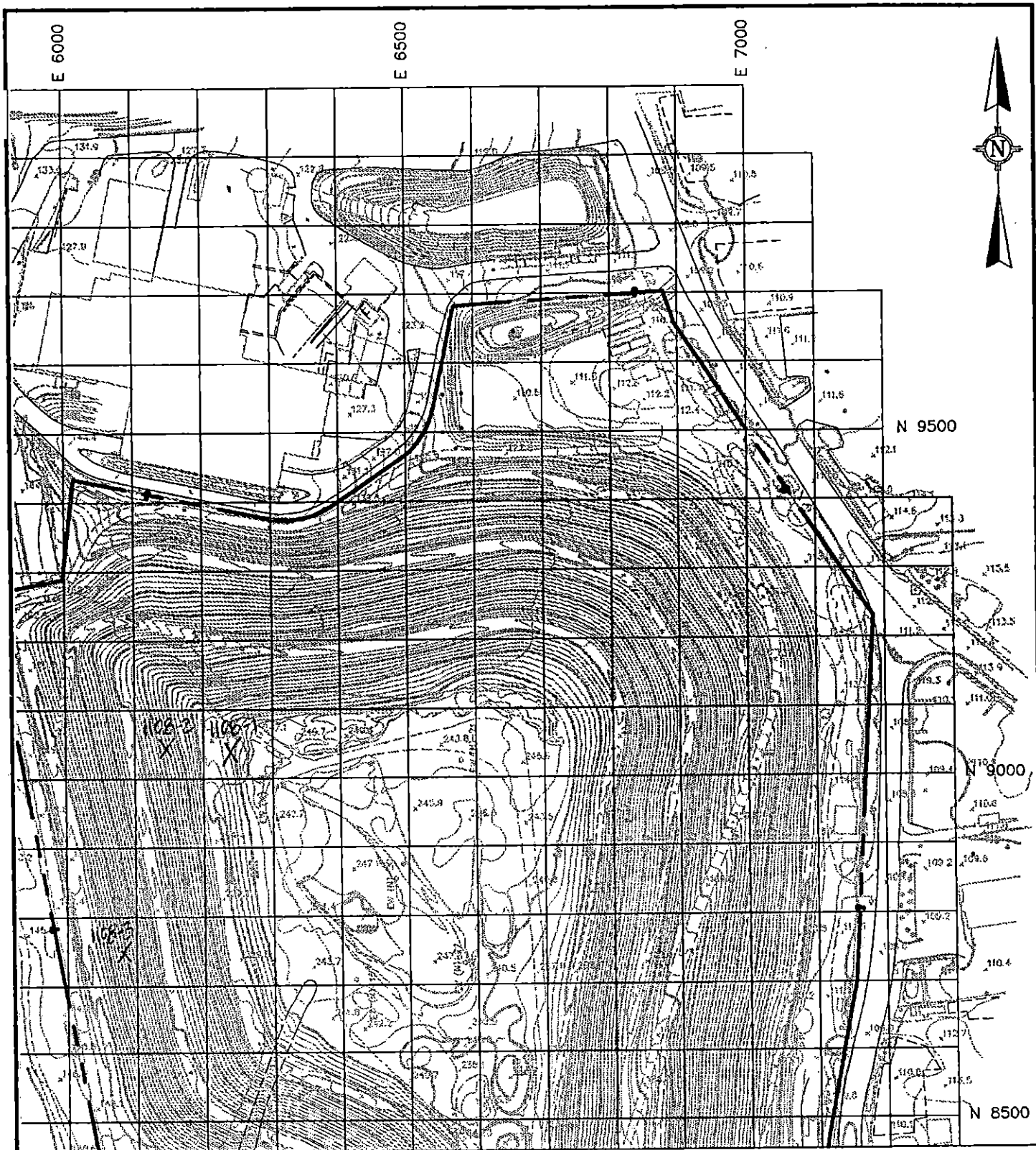
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557): A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ACT DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
	SELECT											
1108-1	N8950 & E6250 WEST SIDE	6"/9"/2	6.6	128.9	6.8	125.3	117.2	91.0	P			
1108-2	N8950 & E6150 "	6"/9.5"/2	6.6	128.9	8.2	117.3	126.9	91.0	P			
1108-3	N8750 & E6075 "	6"/9"/1	6.6	128.9	7.4	117.3	126.0	91.0	P			



DATES: 11-08-95

TROXLER DENSITY TEST LOCATION

1ST LIFT SELECT FILL (SC)
2ND LIFT SELECT FILL

LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day 8 month 95 year

SPECIFICATION REQUIREMENTS

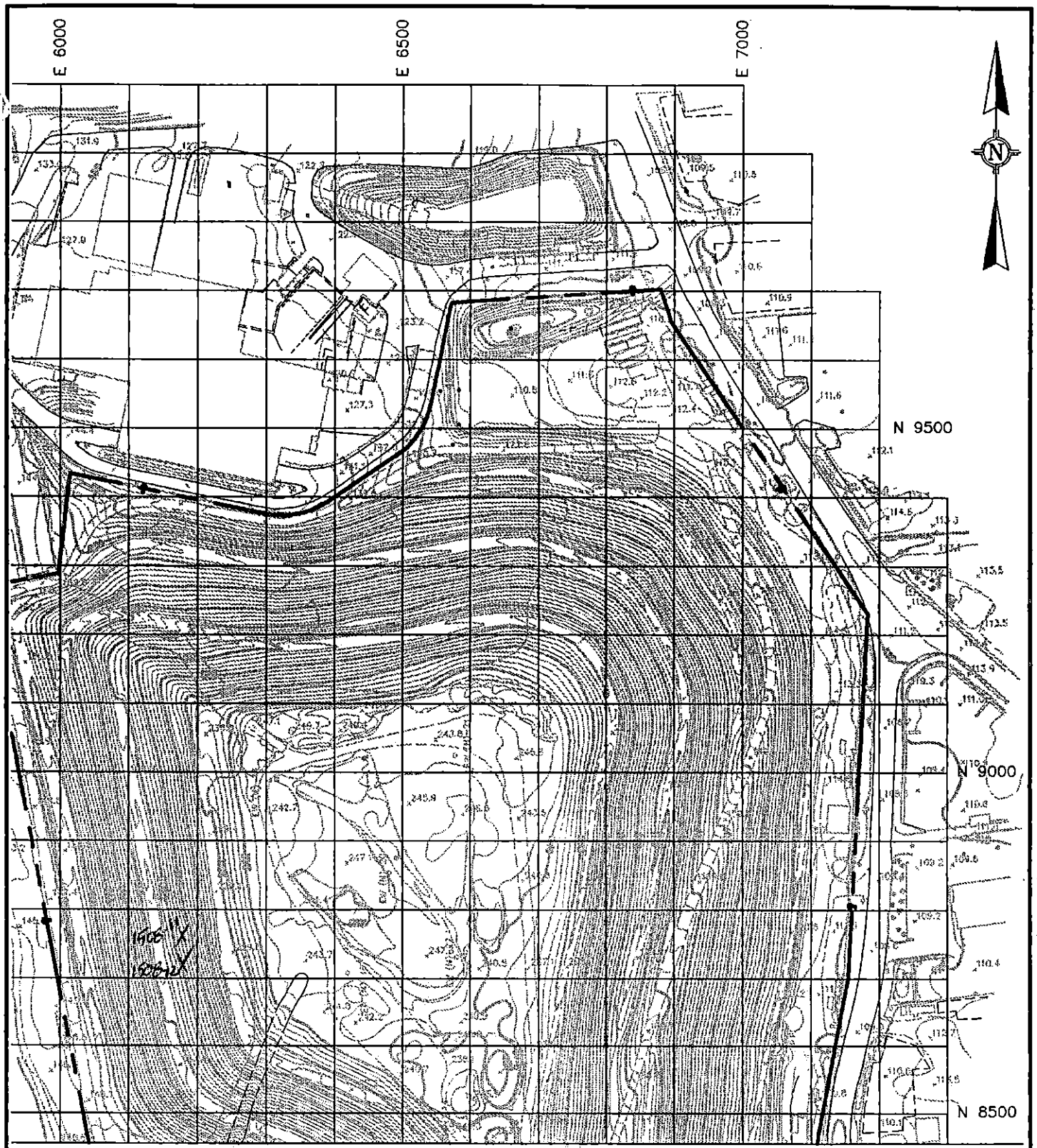
SOURCE: B. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE (COMPACTED): 9"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION (COMMON)	PROBE DEPTH/ ELEV/ LIFT NO. (NET DEPTH)	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
1508-1	N7550 E6650 (SOUTH SLOPE)	6"/10"/1	8.5	128.5	5.1	121.6	115.4	90.0	P			
1508-2	N7550 E6750 "	6"/9"/1	8.5	128.5	7.2	124.2	116.9	90.2	P			
1508-3	N7450 E6140 "	6"/9.5"/1	8.5	128.5	6.0	122.5	116.0	90.0	P			
1508-4	N7450 E6045 "	6"/9.5"/1	8.5	128.5	4.6	121.2	115.9	90.2	P			
1508-5	N7350 E6650 "	6"/10"/1	8.5	128.5	4.7	120.7	121.0	94.2	P			
1508-6	N7340 E6750 "	6"/9"/1	8.5	128.5	4.9	128.2	122.3	95.1	P			
1508-7	N7350 E6550 "	6"/9"/1	8.5	128.5	5.5	128.6	122.1	95.0	P			
1508-8	N7250 E6550 "	6"/10"/1	8.5	128.5	4.9	128.6	122.6	95.4	P			
* 1508-9	CHANNEL 'D' (SELECT SEE SITE PLAN)	6"/52"/1	6.6	130.4	6.5	108.0	101.4	77.8		F		
1508-10	CHANNEL 'K' (SEE SITE PLAN SELECT)	6"/ [illegible] /1	6.6	130.4	6.9	120.1	112.3	86.1		F		
1508-11	N6850 E6160 (WEST SIDE SLOPE)	6"/9"/1	6.6	130.4	6.8	121.7	113.9	87.4		F	1608-1	
1508-12	N6840 E6100 " (SELECT)	6"/9"/1	6.6	130.4	5.8	121.1	114.4	87.8		F	1608-1	

* NOTE: CHANNEL "D" ANCHOR TRENCH PLACED IN 54" LIFT - NO COMPACTION.



DATE: 15-8-95

LAP MATCH TO FIGURE 1

TROXLER TEST LOCATION

SELECT FILL 1ST LIFT

100 FOOT FIELD TESTING GRID

0 100 200

1 inch = 200 ft.

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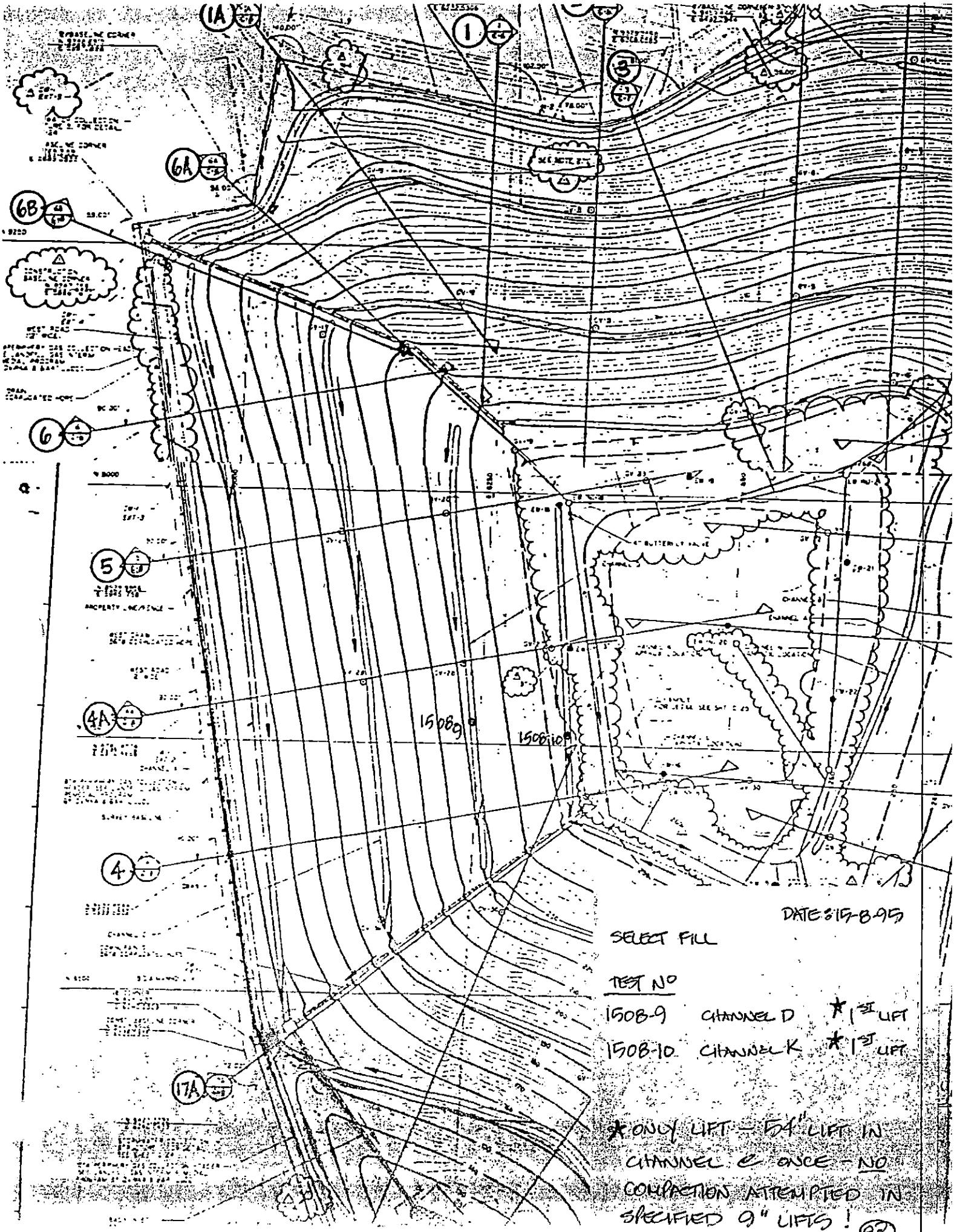


DATE: 5-8-95

SELECT FILL

TEST NO		
1508-9	CHANNEL D	★ 1ST LIFT
1508-10	CHANNEL K	★ 1ST LIFT

★ ONLY LIFT — 54" LIFT IN CHANNEL & ONCE - NO COMPACTION ATTEMPTED IN SPECIFIED 9" LIFTS !

(90)

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 08 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: R. SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"

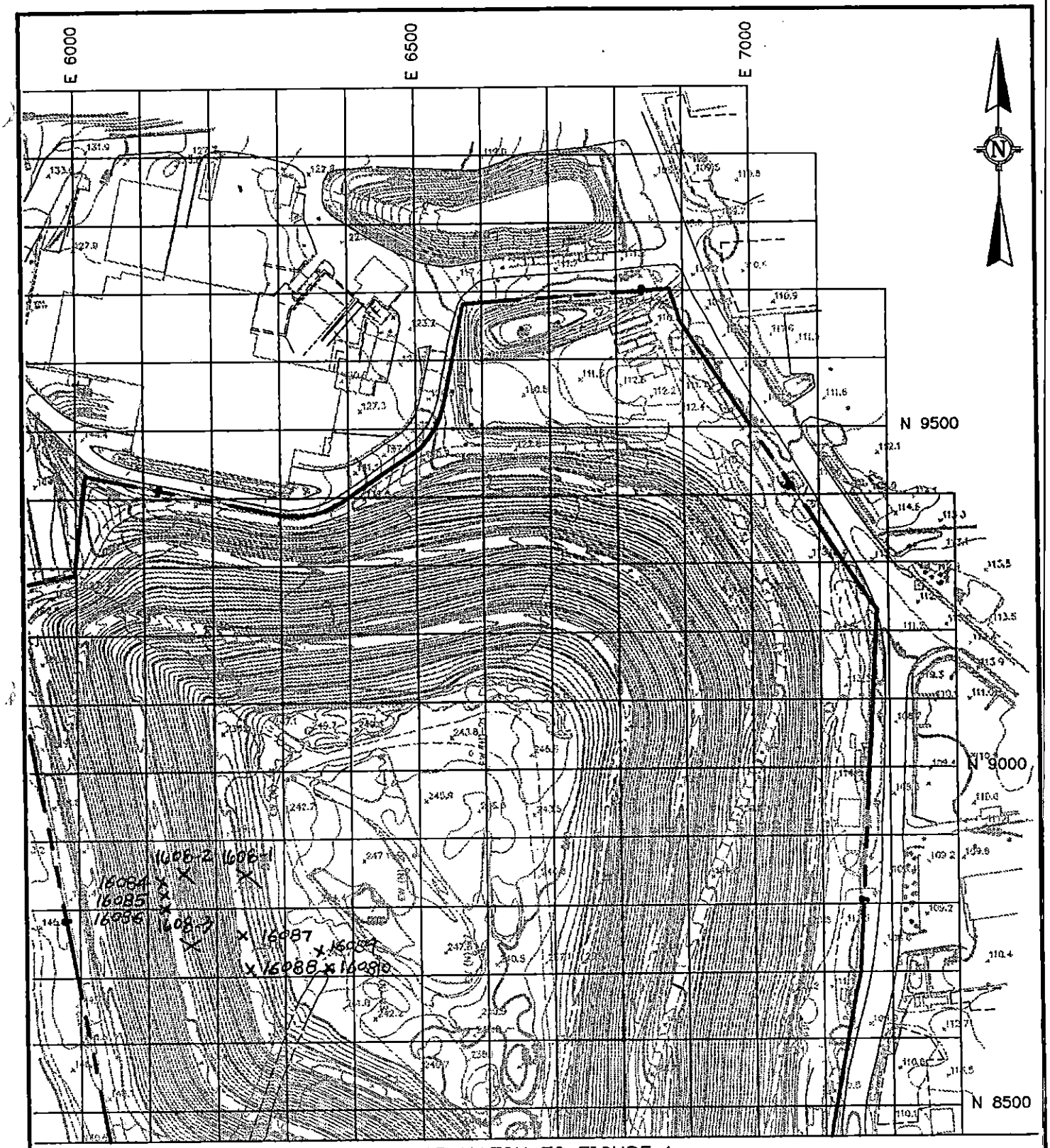
(CIRCLE ONE)

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557): A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ACT DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
1608-1	N8850 E6160 WEST SLOPE	6"/9"/1	6.6	128.9	9.9	128.5	117.0	90.7	P			DW
1608-2	N8850 E6250 "	6"/9"/1	6.6	128.9	6.9	124.4	116.3	90.3	P			DW
1608-3	N8750 E6150 "	6"/9"/1	6.6	128.9	6.9	126.2	118.0	91.6	P			DW
16084	CHANNEL C 1ST	9/18/1	6.6	128.9	7.2	124.6	116.2	90.2	P			DW
16085	CHANNEL C 2ND	6/9/2	6.6	128.9	7.4	125.7	117.0	90.8	P			DW
16086	CHANNEL C 3RD	6/9/3	6.6	128.9	6.8	124.4	116.5	90.4	P			DW
16087	CHANNEL D 2ND	6/9/2	6.6	128.9	7.1	125.7	117.4	91.1	P			DW
16088	CHANNEL D 3RD	6/9/3	6.6	128.9	7.7	125.9	116.9	90.7	P			DW
16089	CHANNEL K 2ND	6/9/3	6.6	128.9	7.6	126.6	117.7	91.3	P			DW
16090	CHANNEL K 3RD	6/9/3	6.6	128.6	6.7	123.8	116.0	90.0	P			DW



DATE: 16-08-95 LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

TROXLER TEST LOCATIONS
SELECT FILL
1ST LIFT

100 FOOT FIELD TESTING GRID

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DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
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GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 08 month 95 year

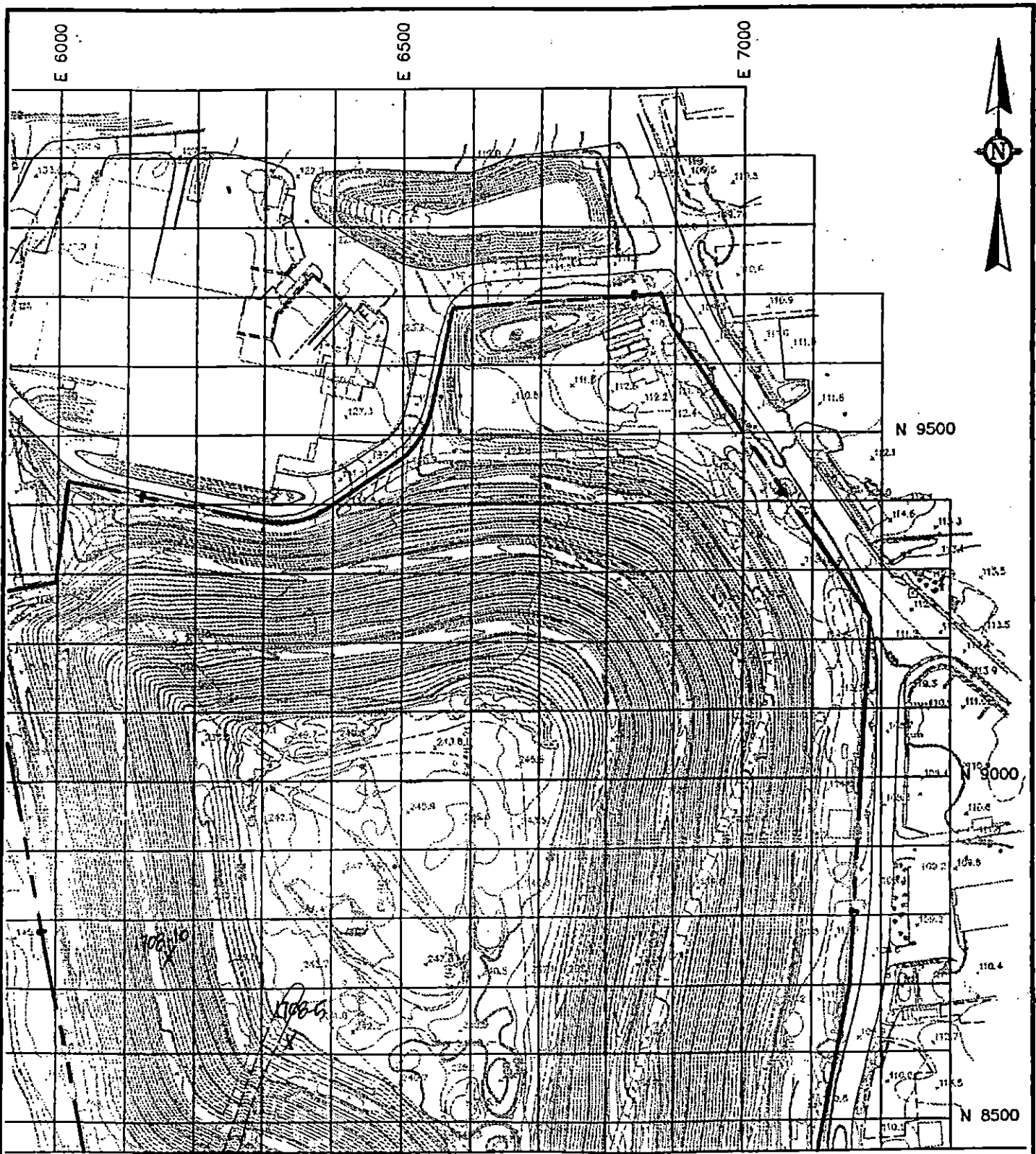
SPECIFICATION REQUIREMENTS

SOURCE: R. SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"

% COMPACTION: ≥90% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO. (ACT DEPTH)	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
1708-1	N7350 E6150 COMMON RE-TEST EAST	6"/10"/1	8.5	129.5	7.9	121.9	113.0	87.3		F		
1708-2	N7450 E6150	6"/9"/1	8.5	129.5	7.2	118.9	110.8	85.6		F		
1708-3	N7550 E6175	6"/9.5"/1	8.5	129.5	5.3	122.2	116.1	89.6		F		
1708-4	N7650 E6850	6"/10"/1	8.5	129.5	5.4	125.6	119.4	92.2	P			
1708-5	N8650 E6350 SELECT WEST 1ST LIFT	6"/9"/1	6.6	128.9	7.8	130.2	120.8	93.7	P			
1708-6	N7750 E6850 COMMON EAST RETEST	6"/9"/1	8.5	129.5	7.0	124.8	116.6	90.0	P			
1708-7	N7750 E6450 "	6"/9.5"/1	8.5	129.5	5.7	123.9	117.3	90.6	P			
1708-8	N7850 E7050 "	6"/8.5"/1	8.5	129.5	4.3	121.7	116.7	90.1	P			
1708-9	N7650 E6450 "	6"/9"/1	8.6	129.5	5.1	122.7	116.8	90.2	P			
1708-10	N8750 E6150 SELECT WEST 2ND LIFT	6"/9"/2	6.6	128.9	7.0	125.8	117.6	91.2	P			
1708-11	N7850 E6850 COMMON EAST RETEST	6"/9"/1	8.5	129.5	6.9	124.6	116.6	90.0	P			
1708-12	N7750 E6175 "	6"/8"/1	8.5	129.5	6.2	123.9	116.7	90.1	P			
1708-13	N7650 E6150 "	6"/9"/1	8.5	129.5	3.8	112.0	107.9	83.4		F		



TROXLER TEST LOCATIONS 17-08-95 LAP MATCH TO FIGURE 1

SELECT FILL
1ST & 2ND LIFT (97)

0 100 200

1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
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GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 08 month 95 year

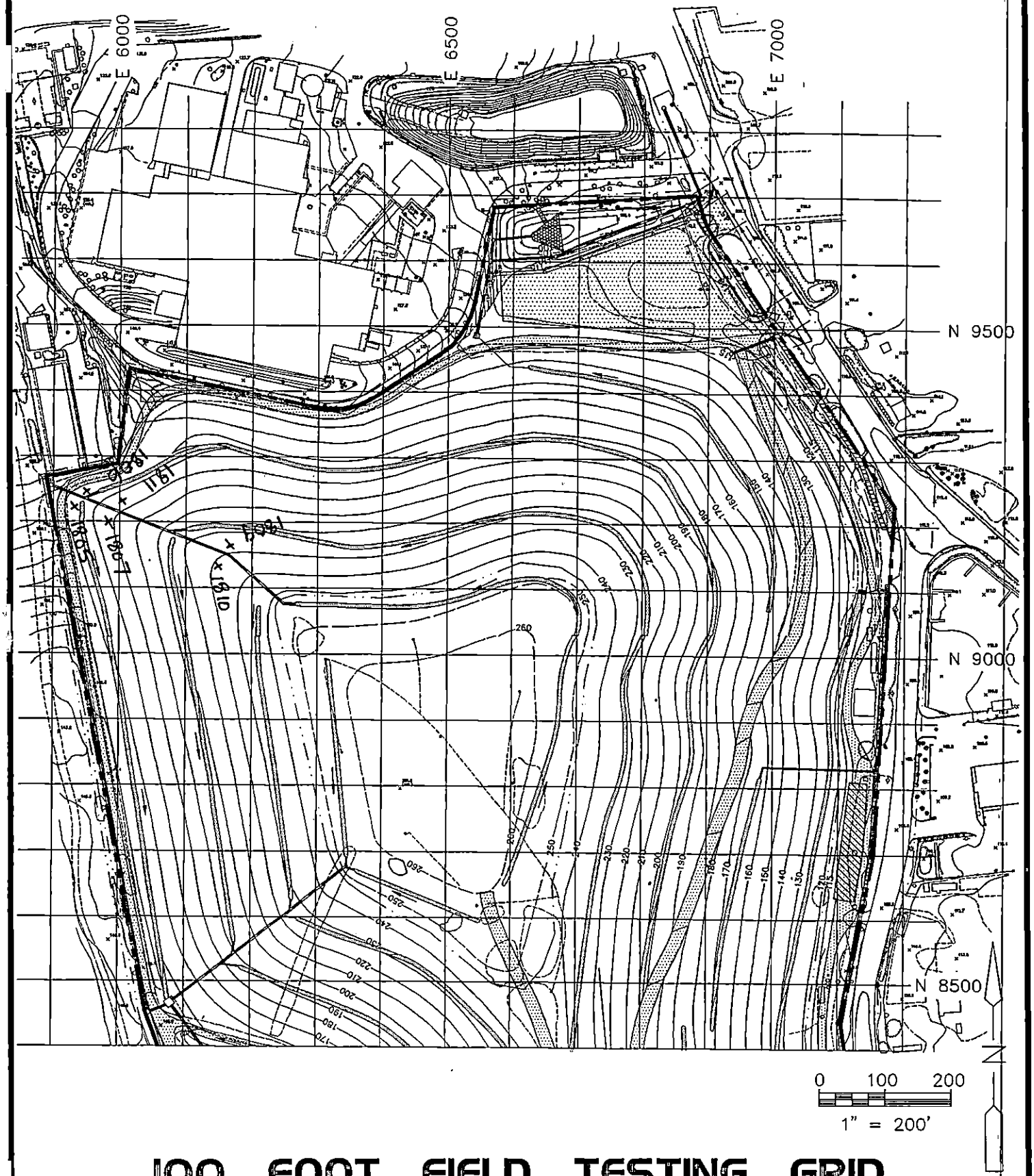
SPECIFICATION REQUIREMENTS

SOURCE: R. Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"
(CIRCLE ONE)

% COMPACTION: ≥90% (85% for Pipe area) MOISTURE RANGE: ±2% ASTM D 698: A B C / ASTM D 1557: A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: /

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
~~1808-1~~	~~N7550 ~ E6950 Comm Fill~~ RETEST	~~6"/9.5/1~~ AT 6" DEPTH	~~8.5~~	~~129.5~~	~~8.8~~	~~121.4~~	~~111.5~~	~~86.1~~		~~F~~		~~EK~~
1808-2	N7650 ~ E6980 "	6"/9.5/1	8.5	129.5	8.9	125.5	115.3	89.0		F		EK
~~1808-3~~	~~N7550 ~ E6950 "~~	~~6"/9.5/1~~	~~8.5~~	~~129.5~~	~~4.5~~	~~116.5~~	~~111.5~~	~~86.1~~		~~F~~	1808-1	~~EK~~
~~1808-4~~	~~N7650 ~ E6980 "~~	~~6"/9.5/1~~	~~8.5~~	~~129.5~~	~~6.7~~	~~120.6~~	~~113.0~~	~~87.3~~		~~F~~	1808-2	~~EK~~
1808-5	36" pipe betwee 6 & 6A, Bottom South	6"	6.6	128.9	9.0	130.1	119.3	92	P			EK
1808-6	" Bottom North	6"	6.6	128.9	9.3	133.4	122.1	94.7	P			EK
1808-7	" Middle South	6"	6.6	128.9	10.7	124.8	112.8	87.5	P			EK
~~1808-8~~	~~N7550 ~ E6950 Comm Fill~~	~~6"/9.5/1~~	~~8.5~~	~~129.5~~	~~7.6~~	~~121.7~~	~~113.1~~	~~87.3~~		~~F~~	1808-3	~~EK~~
1808-9	36" pipebet 6 & 6A Top North	6"	6.6	128.5	8.0	119.2	110.4	85.5	P			EK
1808-10	" Top South	6"	6.6	128.5	6.7	118.9	111.4	86.7	P			EK
1808-11	" Bottom Middle North	6"	6.6	128.5	11.3	128.6	115.6	90.0	P			EK
1808-12	" Bottom Middle South	6"	6.6	128.5	8.5	130.8	120.6	93.8	P			EK
~~1808-13~~	~~N7550 ~ E6950 Comm Fill~~	~~6"/9.5/1~~	~~8.5~~	~~129.5~~	~~10.3~~	~~129.9~~	~~117.7~~	~~90.9~~	P		1808-8	~~EK~~
~~1808-14~~	~~N7650 ~ E6980 Comm Fill~~	~~6"/9.5/1~~	~~8.9~~	~~124.9*~~	~~7.9~~	~~124.0~~	~~114.9~~	~~92.0~~	P		1808-4	EK



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 08 month 95 year

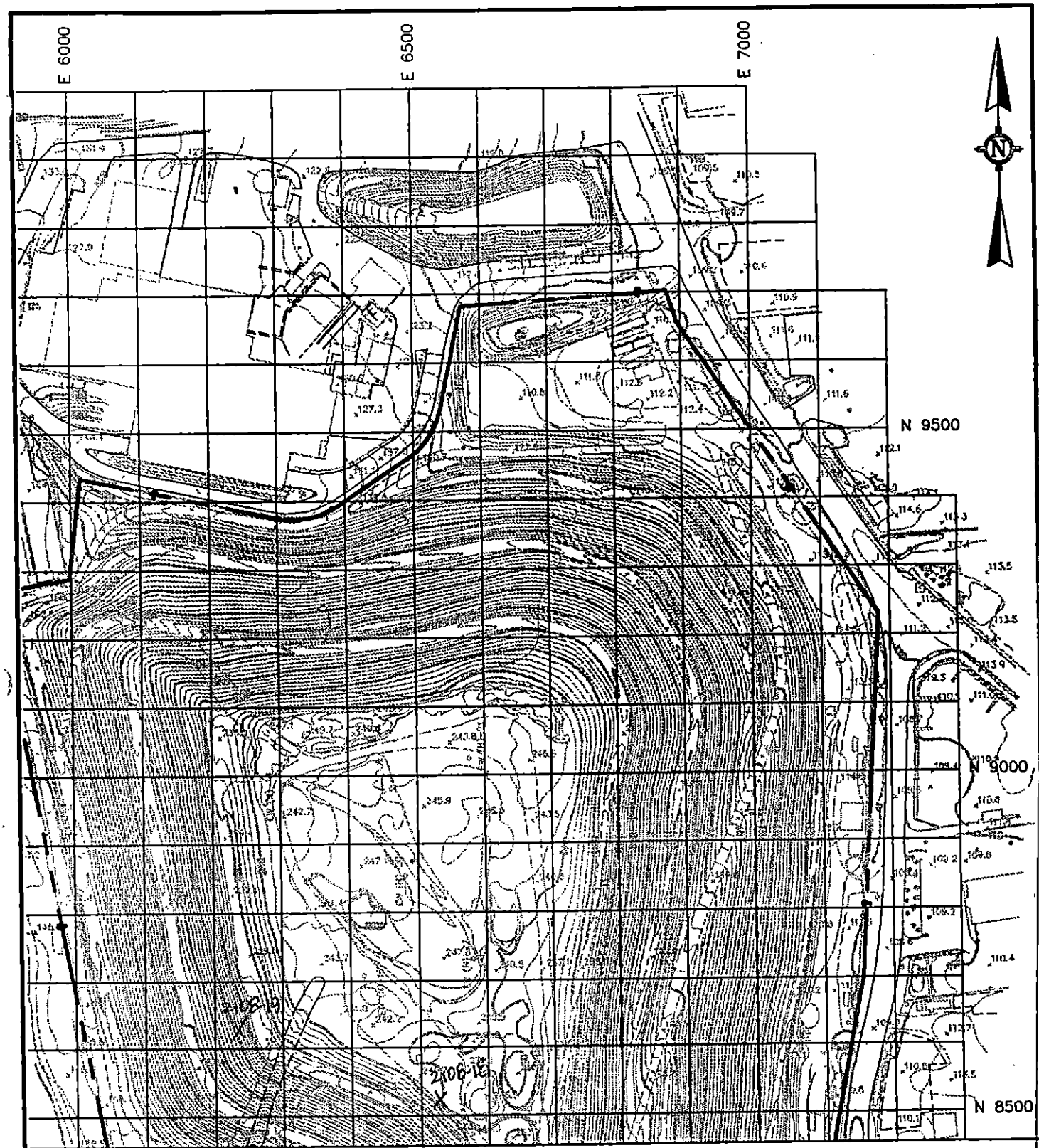
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/COMPACTED): 9"

% COMPACTION: ≥90% COMMON / ≥95% SELECT MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ACT DEPTH/ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2108-15	N7750'E7050 COMMON EAST RETEST	6"/9"/1	8.9	124.9	5.0	118.1	112.5	90.1	P			(2D)
2108-16	CHANNEL "F" SEE SITE PLAN	10"/18"/1	8.5	129.5	4.6	131.6	124.0	95.8	P			(2D)
2108-17	CHANNEL "F" SEE SITE PLAN	10"/18"/1	8.5	129.5	8.4	131.5	123.1	95.1	P			(2D)
2108-18	N8650'E6550 SELECT 1ST LIFT	6"/10"/1	8.5	129.5	9.5	127.9	121.3	93.7	P			(2D)
2108-19	N8650'E6250 SELECT 1ST LIFT	6"/8.5"/1	8.5	129.5	4.7	119.8	114.5	88.4	P			(2D)



21-08-95 LAP MATCH TO FIGURE 1

TROXLER TEST LOCATIONS

1ST LIFT SELECT FILL

100 FOOT FIELD TESTING GRID

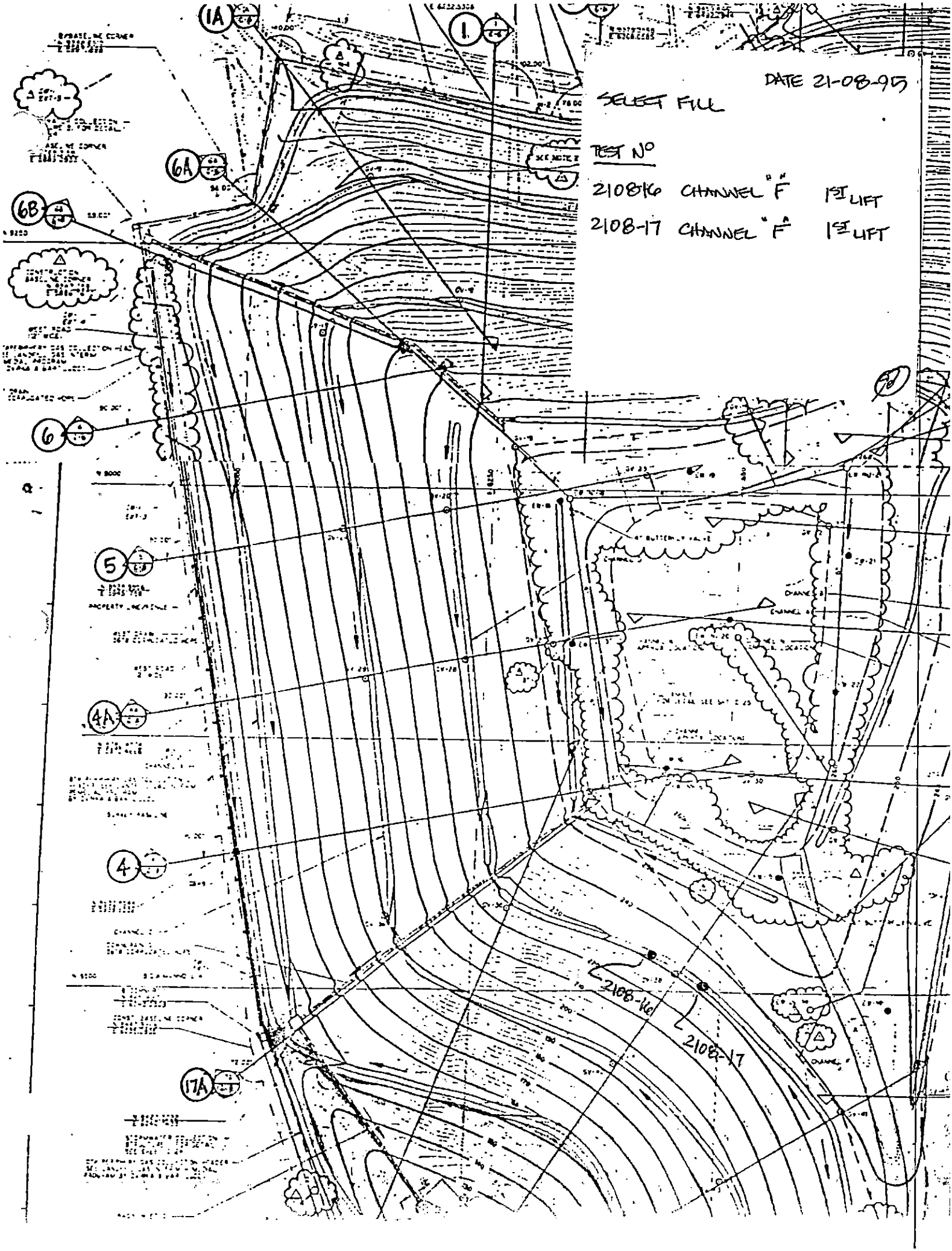
0 100 200

1 inch = 200 ft.

GEOSYNTEC CONSULTANTS

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	


DATE 21-08-95
SELECT FILL
TEST N°
2108-16 CHANNEL "F" 1ST LIFT
2108-17 CHANNEL "F" 1ST LIFT
2108-16
2108-17

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 08 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 18" 9"

% COMPACTION: ≥ 85% (SELECT FILL) MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE ACT DEPTH / DEPTH ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2208-1	CHANNEL F SELECT 1ST LIFT	8"/18"/1	8.5	129.5	7.9	124.7	116.6	89.2	P			
2208-2	CHANNEL F SELECT 1ST LIFT	8"/18"/1	8.5	129.5	8.2	130.5	120.7	93.2	P			
2208-3	CHANNEL F SELECT 2ND LIFT	8"/18"/2	8.5	129.5	7.1	117.1	109.3	84.4		F	2208-4	
2208-4	CHANNEL F SELECT 2ND LIFT	8"/18"/2	8.5	129.5	5.4	119.5	113.4	87.5	P			
2208-5	N8450 E6650 SELECT 1ST LIFT	8"/9"/1	8.5	129.5	5.5	118.2	112.0	86.5	P			
2208-6	N8450 E6550 SELECT 2ND LIFT	6"/8"/2	8.5	129.5	6.9	128.7	120.5	93.0	P			
2208-7	CHANNEL E SELECT 1ST LIFT	8"/18"/1	8.5	129.5	4.2	116.9	112.3	86.7	P			
2208-8	N8650 E6160 SELECT 2ND LIFT	6"/9.5"/2	8.5	129.5	5.4	124.4	118.0	91.1	P			
2208-9	N8750 E6150 SELECT 2ND LIFT	6"/9"/2	8.5	129.5	7.4	129.0	116.5	89.9	P			
2208-10	CHANNEL F SELECT 2ND LIFT	8"/18"/2	8.5	129.5	8.5	122.7	113.1	87.3	P			
2208-11	CHANNEL R SELECT 1ST LIFT	8"/18"/1	8.5	129.5	7.5	128.1	119.2	92.0	P			
2208-12	CHANNEL R SELECT 1ST LIFT	8"/18"/1	8.5	129.5	9.5	129.0	117.7	90.9	P			
2208-13	CHANNEL R SELECT 1ST LIFT	8"/18"/1	8.5	129.5	8.5	123.6	113.9	88.0	P			
2208-14	N8750 E6250 SELECT 2ND LIFT	6"/9"/2	8.5	129.5	5.1	116.5	110.9	85.6	P			

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 08 month 95 year

SPECIFICATION REQUIREMENTS

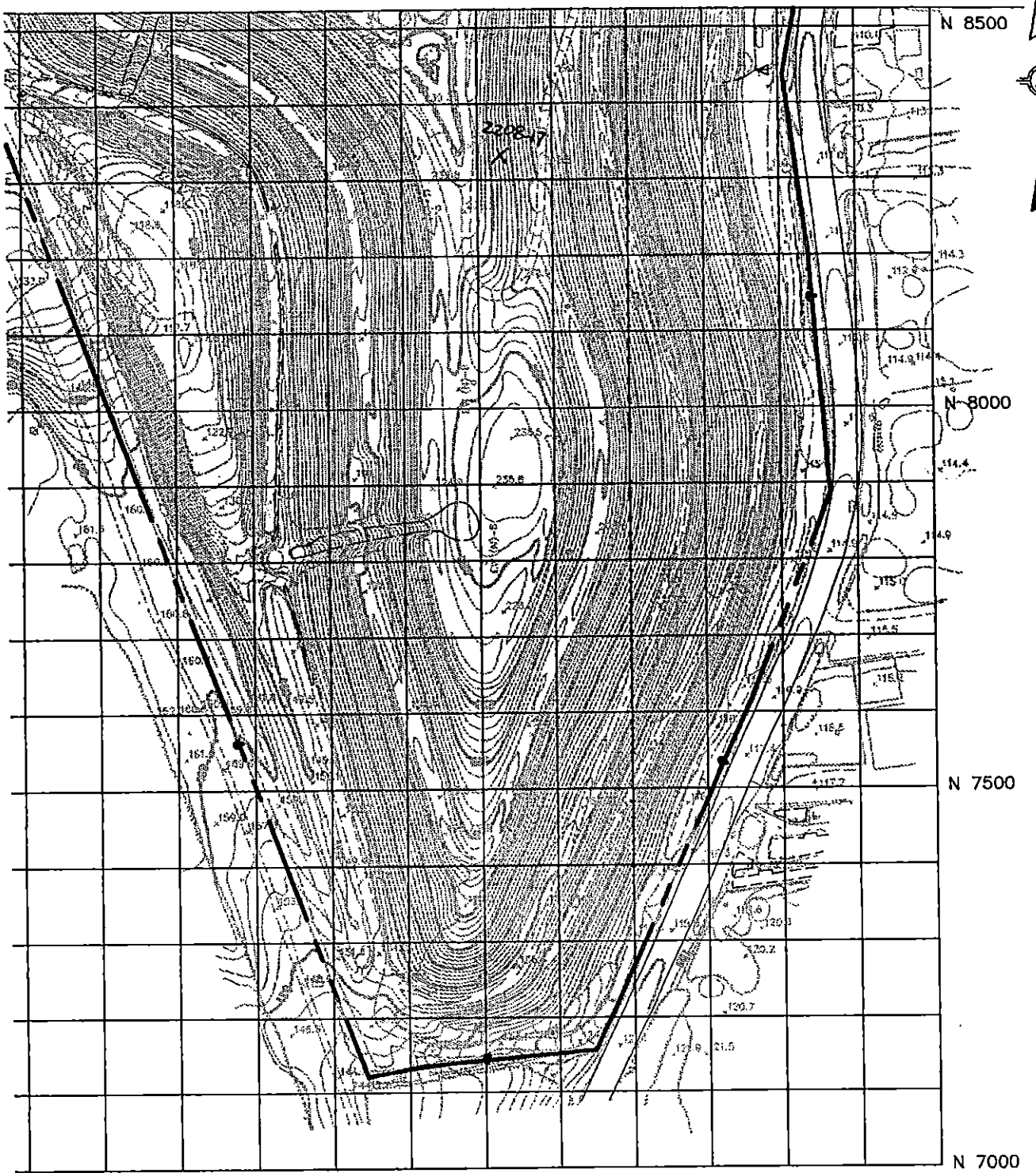
SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE (COMPACTED) 18" 9"

% COMPACTION: ≥85% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
2208-15	N8660'E4260 SELECT 2ND LIFT	6"/9.5"/2	8.5	129.5	7.9	131.8	122.2	94.3	P			(96)
2208-16	CHANNEL E SELECT 2ND LIFT	8"/18"/2	8.5	129.5	5.1	116.0	110.4	85.2	P			(97)
2208-17	N8550'E6660 SELECT 1ST LIFT	6"/9"/1	8.5	129.5	7.5	126.1	117.3	90.6	P			(98)
2208-18	CHANNEL R SELECT 2ND LIFT	8"/18"/2	8.5	129.5	6.5	120.7	113.3	87.5	P			(99)
2208-19	CHANNEL F 3RD	6/9/3	8.5	129.5	6.9	121.9	114.1	88.1	P			

LAP MATCH TO FIGURE 2



0 100 200

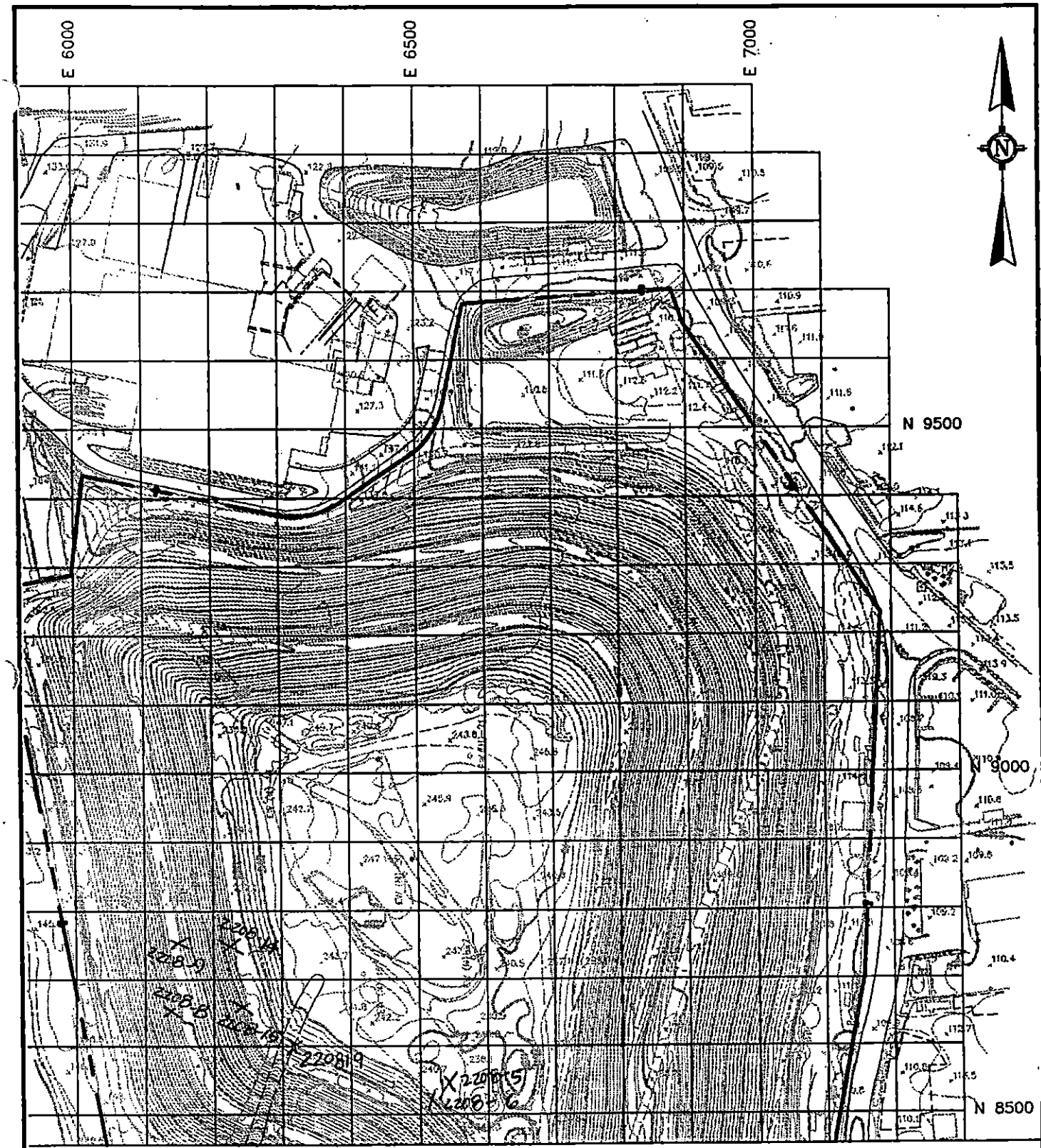
1 inch = 200 ft.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	1
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



22-08-95

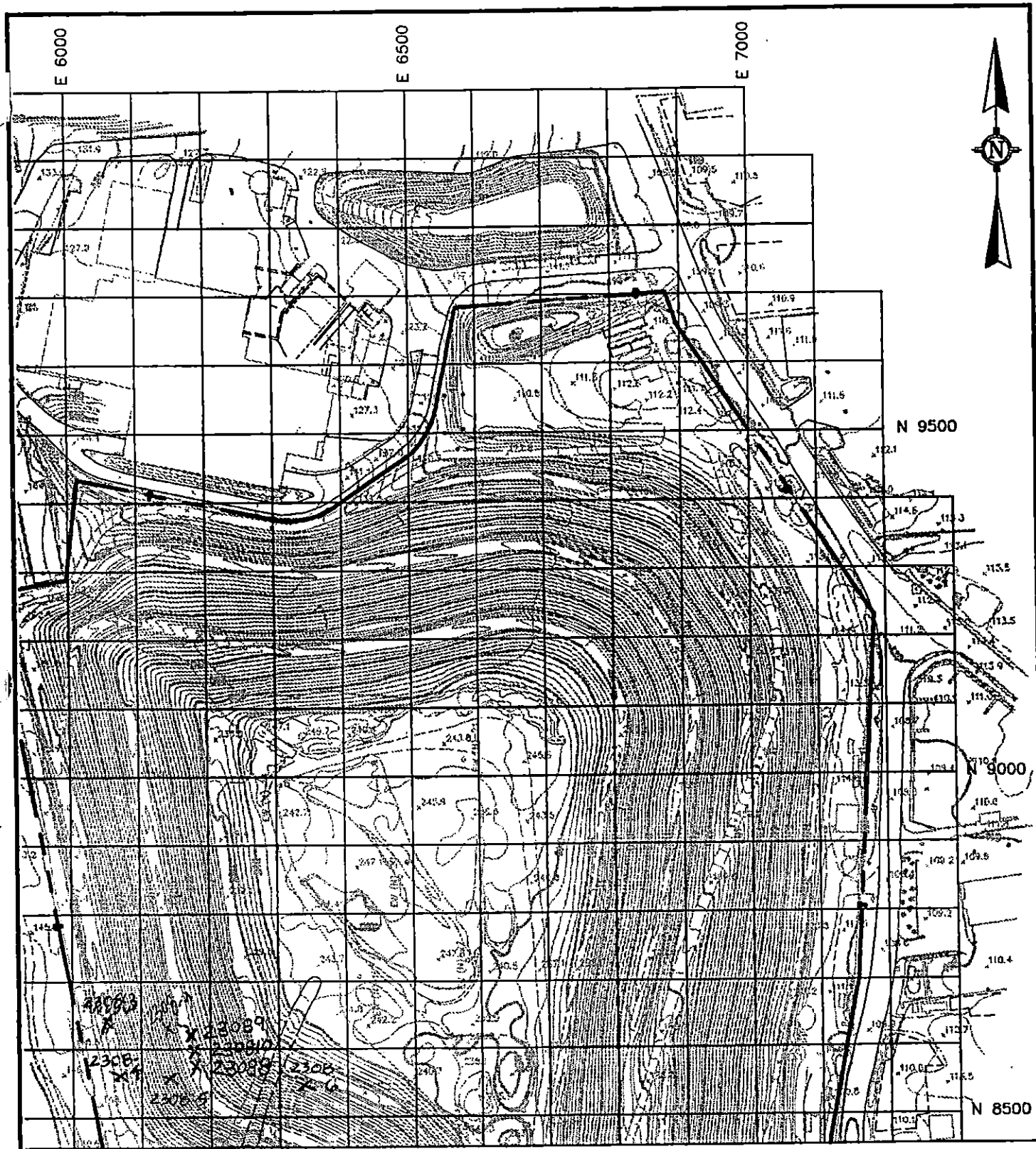
TROXLER DENSITY TEST LOCATIONS

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



23-08-95

LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

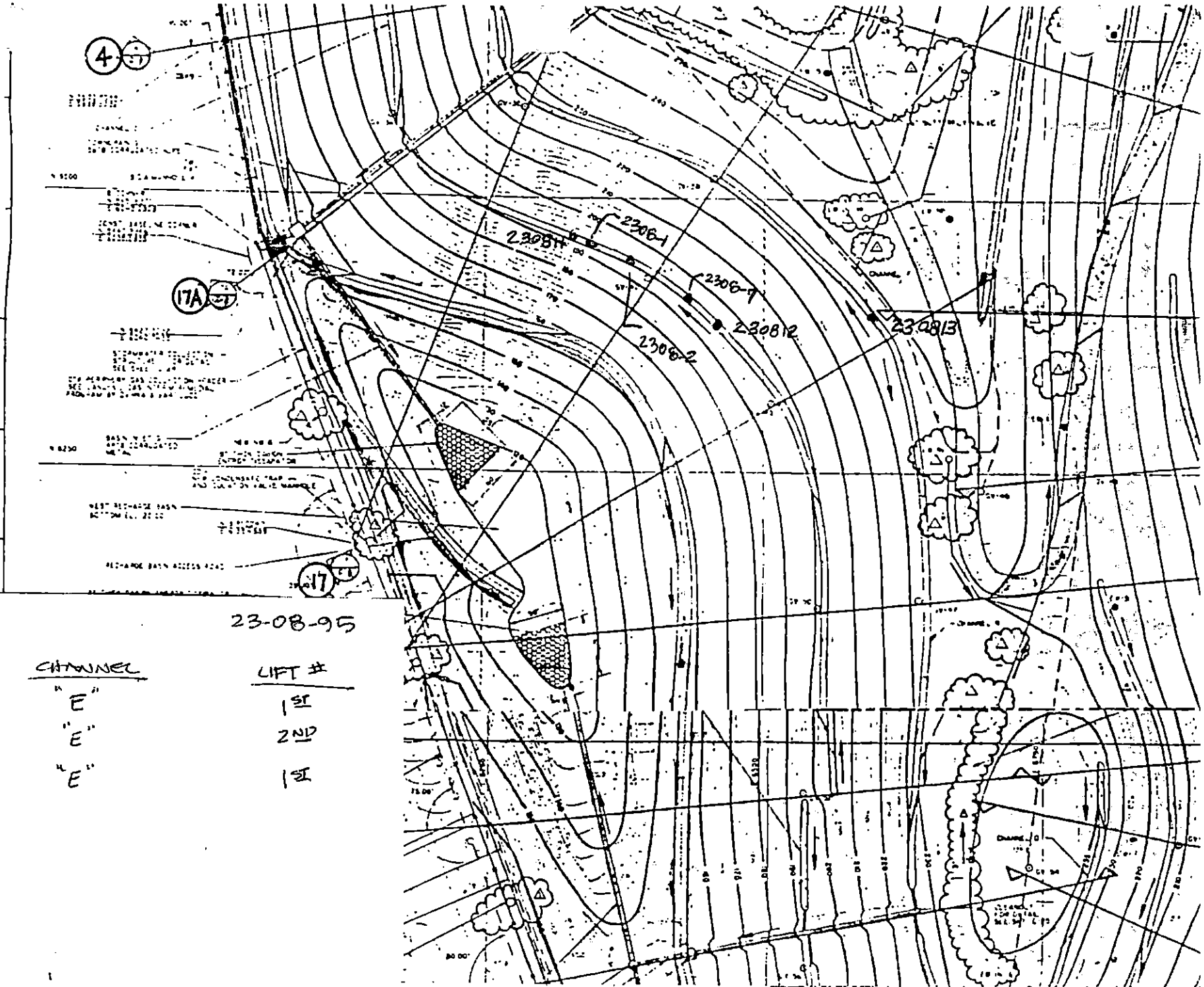
TROXLER TEST LOCATIONS
SELECT FILL

100 FOOT FIELD TESTING GRID

GEOSYNTEC CONSULTANTS

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



SELECT

23-08-95

TEST Nº	CHANNEL	LIFT #
2308-1	"E"	1ST
2308-2	"E"	2ND
2308-7	"E"	1ST

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 08 month 95 year

SPECIFICATION REQUIREMENTS

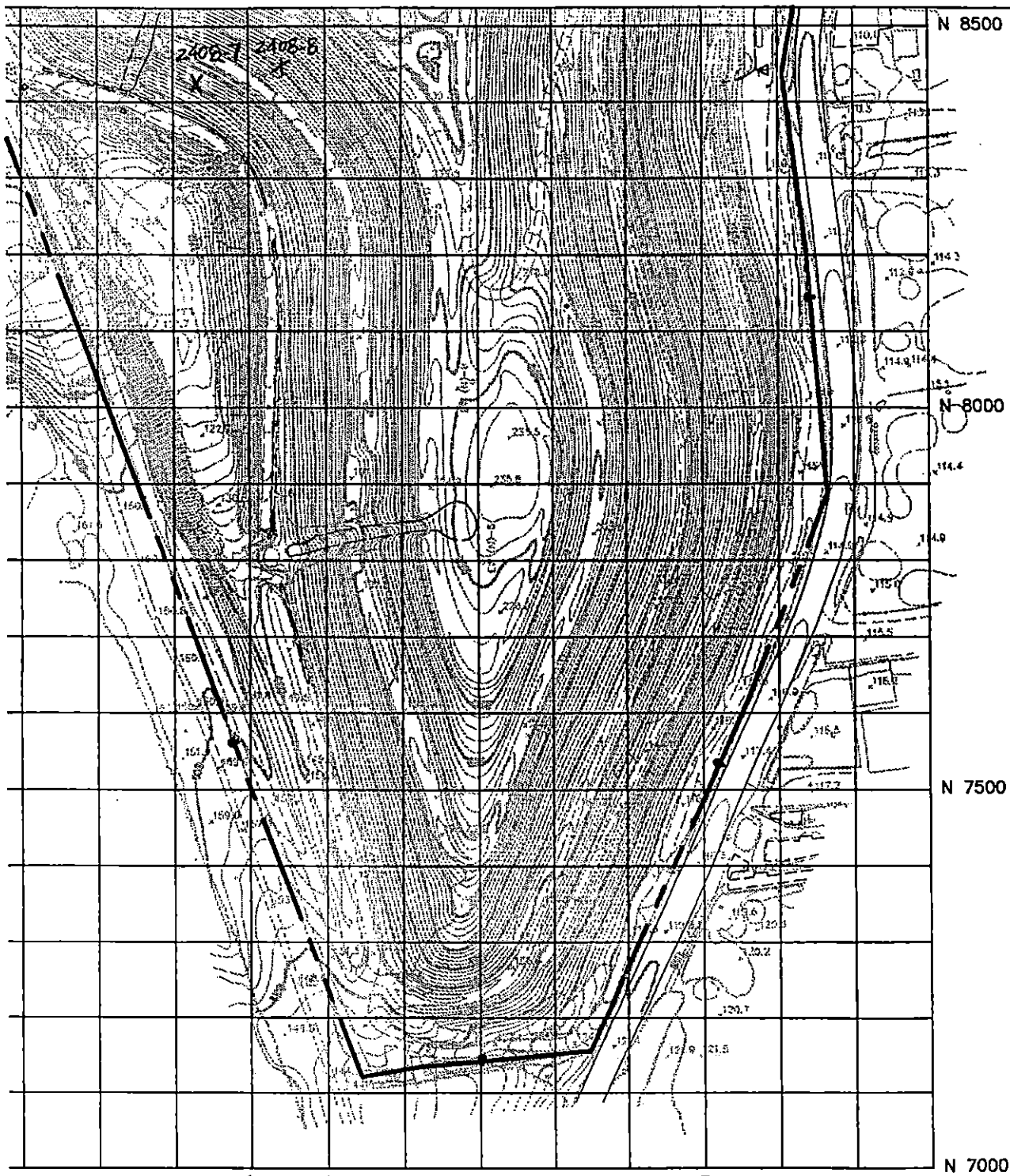
SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED) 9"

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2408-1	N8550 E6350 SELECT 2ND WEST	6"/9"/2	6.6	128.9	6.5	125.7	118.0	91.6	P			(2)
2408-2	N8470 E6350 SELECT 2ND WEST	6"/9/2	6.6	128.9	7.8	120.1	111.4	86.4	P			(2)
2408-3	N8550 E6170 SELECT W 1ST LIFT	6"/8.5"/1	6.6	128.9	4.7	124.0	118.5	91.9	P			(2)
2408-4	N8450 E6230 SELECT WEST 1ST LIFT	6"/8.5"/1	6.6	128.9	5.4	120.6	114.6	88.8	P			(2)
2408-5	N8460 E6140 SELECT WEST 1ST LIFT	6"/10"/1	6.6	128.9	7.3	120.9	112.7	87.4	P			(2)
2408-6	CHANNEL "E" SELECT 2ND LIFT	8"/18"/2	6.6	128.9	6.3	121.2	114.0	88.4	P			(2)
2408-7	N8460 E6350 SELECT 1ST LIFT-WEST	6"/9"/1	6.6	128.9	7.4	122.7	114.3	88.6	P			(2)
2408-8	N8460 E6460 SELECT 1ST LIFT WEST	6"/9"/1	6.6	128.9	6.2	127.4	120.0	93.1	P			(2)
2408-9	CHANNEL L 1ST	8/18/1	6.6	128.9	5.8	122.3	115.6	89.7	P			DW
2408-10	CHANNEL L 2ND	6/9/2	6.6	128.9	6.2	121.1	114.0	88.5	P			DW
2408-11	CHANNEL L 3RD	6/9/3	6.6	128.9	5.3	119.6	113.6	88.1	P			DW
2408-12	CHANNEL L 1ST	8/18/1	6.6	128.9	5.8	118.9	112.4	87.2	P			DW
2408-13	CHANNEL L 2ND	6/9/2	6.6	128.9	6.1	121.3	114.3	88.7	P			DWS

LAP MATCH TO FIGURE 2



DAT 24-08-950

TROXLER TEST LOCATIONS

SELECT FILL

0 100 200

1 inch = 200 ft.

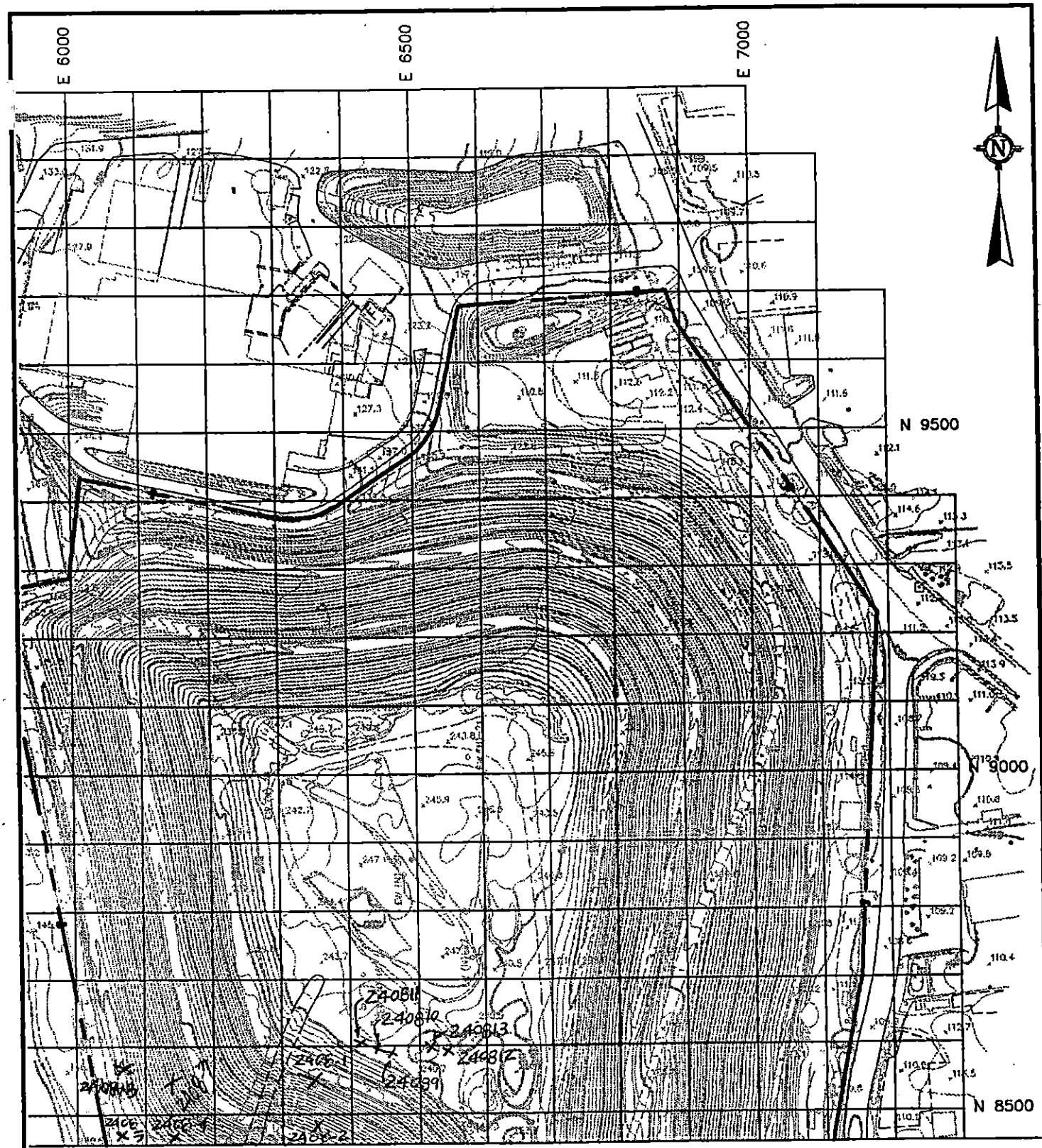
100 FOOT FIELD TESTING GRID

(9)

GEOSYNTEC CONSULTANTS

DWG: 3700F001 199501251447RT

FIGURE NO.	1
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



24-08-95 LAP MATCH TO FIGURE 1

0 100 200

1 inch = 200 ft.

TROXLER TEST LOCATIONS

SELECT FILL

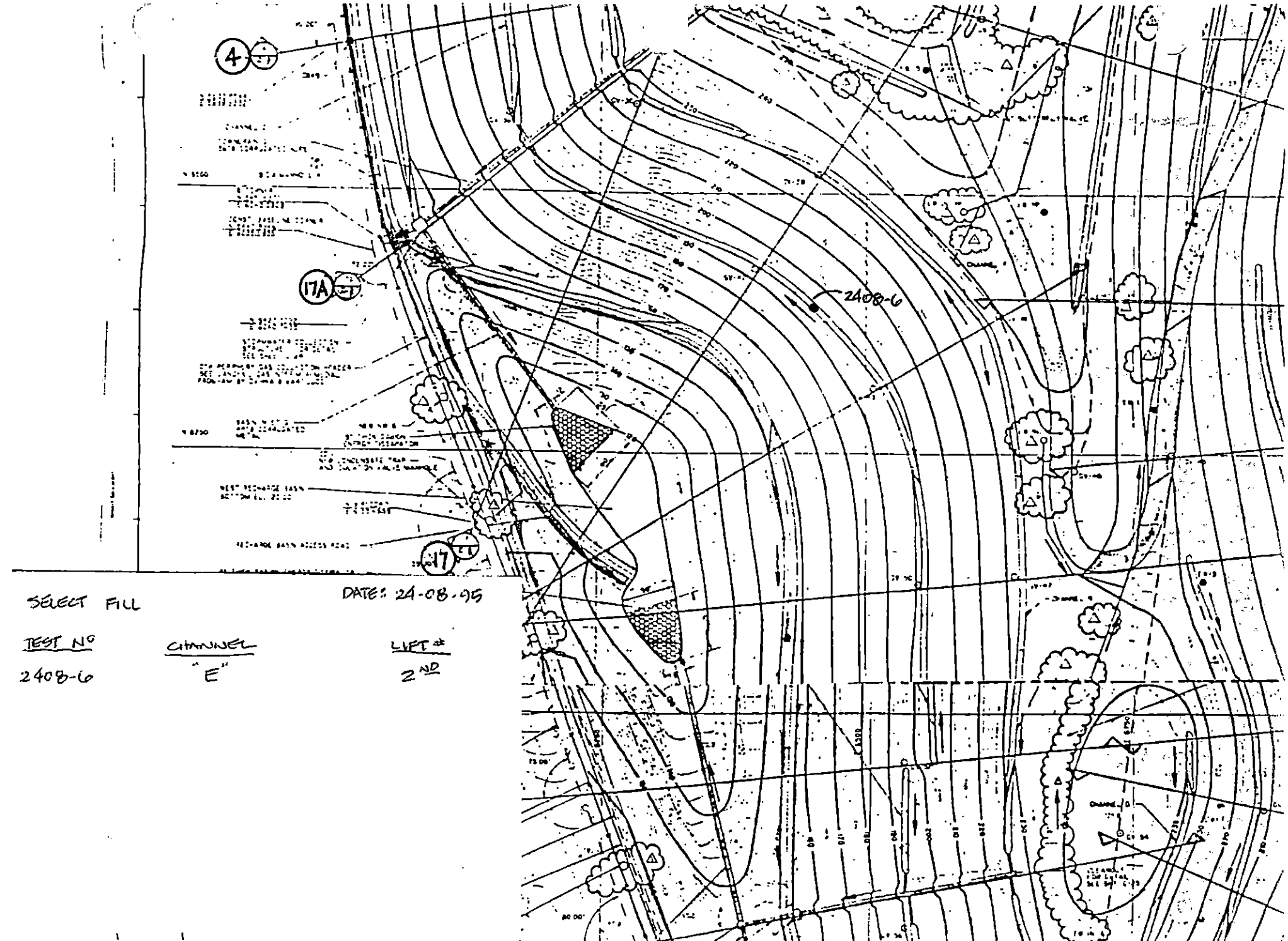
100 FOOT FIELD TESTING GRID

(90)

GeoSyntec Consultants

DWG: 3700F001 199501251447RT

FIGURE NO.	2
PROJECT NO.	GQ3700
DOCUMENT NO.	
PAGE NO.	



SELECT FILL

DATE: 24-08-95

TEST Nº	CHANNEL	LIFT #
2408-6	"E"	2ND

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 08 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

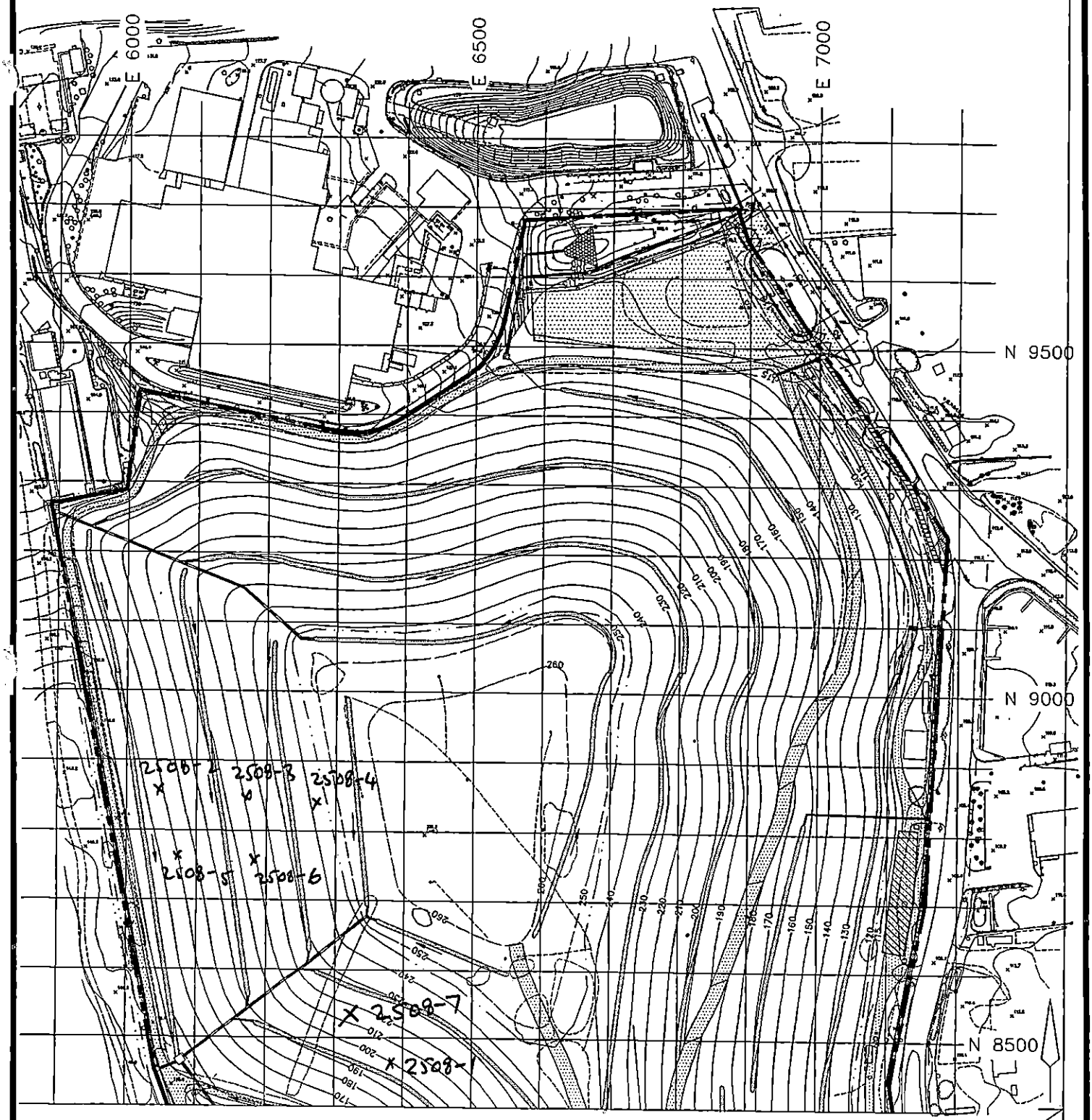
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ±2% ASTM D 698: A B C / ASTM D 1557: A B C

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR:

TEST NO.	TEST LOCATION WEST/SELECT	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2508-1	N8660 E6380 1ST LIFT	6"/9"/1	6.6	128.9	7.1	117.6	109.9	85.3	P			E.K
2508-2	N8850 E6040 2nd LIFT	6"/9"/1	6.6	128.9	5.8	117.3	110.8	86.0	P			E.K
2508-3	N8850 E6150 2ND LIFT	6"/9"/1	6.6	128.9	6.6	120.6	113.1	87.8	P			E.K
2508-4	N8850 E6260 2ND LIFT	6"/9"/1	6.6	128.9	7.0	117.6	109.7	85.1	P			E.K
2508-5	N8760 E6060 2ND LIFT	6"/9"/1	6.6	128.9	7.2	122.5	114.3	88.7	P			E.K
2508-6	N8760 E6180 2ND LIFT	6"/9"/1	6.6	128.9	6.5	121.6	113.6	88.1	P			E.K
2508-7	N8630 E6325 2ND LIFT	6"/9"/1	6.6	128.9	5.9	121.3	114.5	88.9	P			E.K



25-08-95

TROXLER DENSITY TEST LOCATION

SELECT FILL

0 100 200

1" = 200'

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 08 month 95 year

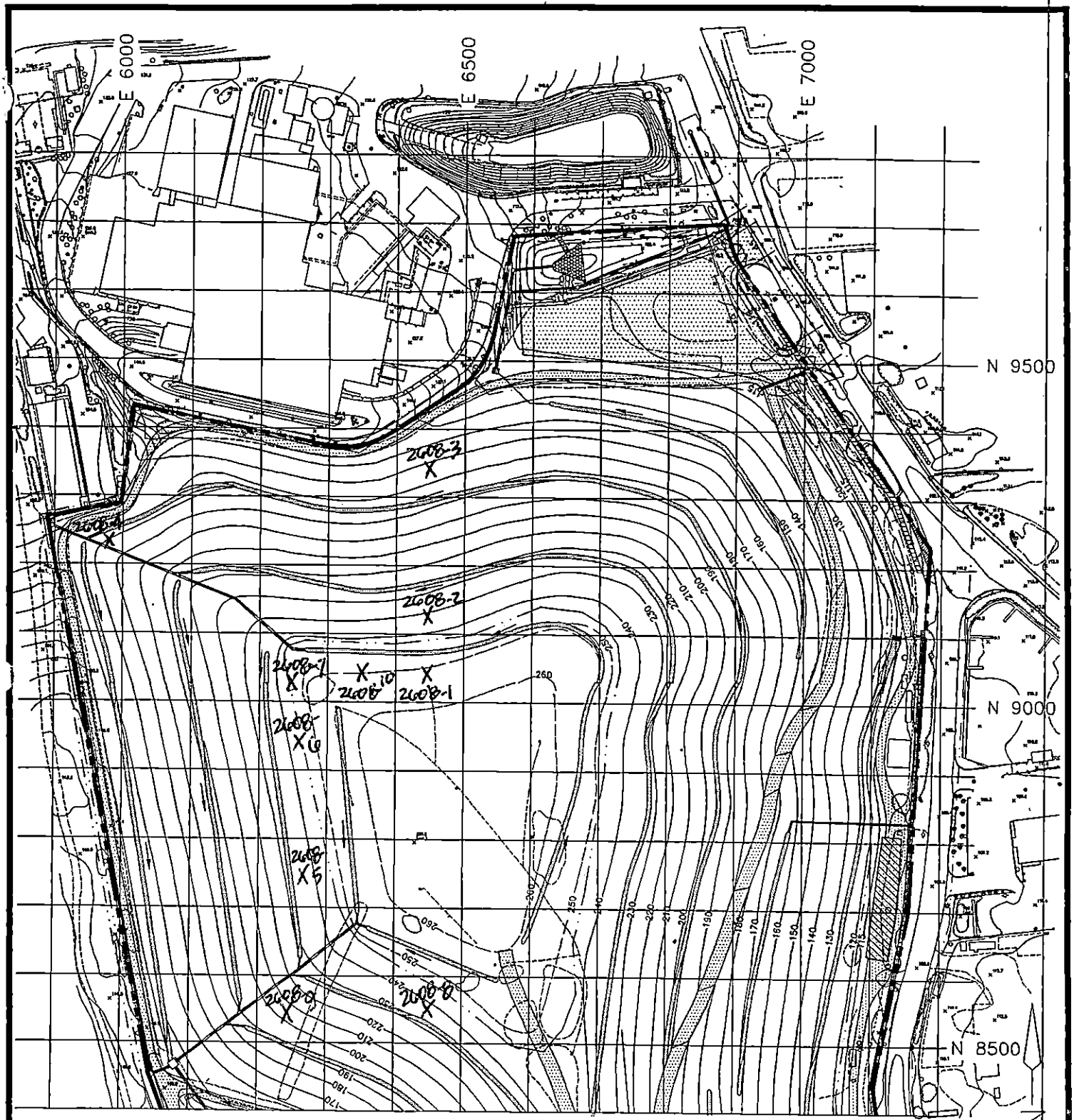
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE (COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2608-1	N9050 E6450 SELECT NORTH 1ST	6"/9"/1	6.6	128.9	5.0	116.6	111.1	86.2	P			(A)
2608-2	N9150 E6440 "	6"/9"/1	6.6	128.9	5.2	119.3	113.4	88.0	P			(B)
2608-3	N9350 E6450 "	6"/9"/1	6.6	128.9	4.9	116.9	111.5	86.5	P			(C)
2608-4	N9250 E5960 SELECT WEST 1ST	6"/9"/1	6.6	128.9	4.8	117.7	112.4	87.2	P			(D)
2608-5	N8150 E6250 "	6"/9"/1	6.6	128.9	4.9	118.9	113.4	88.0	P			(E)
2608-6	N8950 E6250 "	6"/9"/1	6.6	128.9	5.2	117.6	111.8	86.8	P			(F)
2608-7	N9050 E6250 "	6"/9"/1	6.6	128.9	5.0	117.7	112.1	87.0	P			(G)
2608-8	N8550 E6450 "	6"/9"/1	6.6	128.9	4.7	122.7	117.2	91.0	P			(H)
2608-9	N8550 E6250 "	6"/9"/1	6.6	128.9	5.6	122.1	115.7	89.8	P			(I)
2608-10	N9050 E6350 "	6"/9"/1	6.6	128.9	5.2	119.9	114.0	88.5	P			(J)



26-0895

TROXLER TEST LOCATIONS
SELECT FILL 1ST LIFT (4)

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 08 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9" 18"

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: ✓

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO. (ACT DEPTH)	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2808-1	CHANNEL E SELECT 2ND LIFT WEST	8"/12"/2	6.6	128.9	6.7	122.6	114.8	89.1	P			
2808-2	CHANNEL E SELECT 1ST LIFT WEST	8"/18"/1	6.6	128.9	6.6	118.8	111.5	86.5	P			
2808-3	N8950 E6050 SELECT 2ND WEST	6"/9"/2	6.6	128.9	4.4	116.7	111.8	86.7	P			
2808-4	N9050 E6050 SELECT 2ND WEST	6"/9"/2	6.6	128.9	5.4	121.9	115.7	89.7	P			
2808-5	N9150 E6050 SELECT 2ND WEST	6"/9"/2	6.6	128.9	5.3	125.1	118.7	92.1	P			
2808-6	N9150 E6140 WEST 2ND SELECT	6"/9"/2	6.6	128.9	4.5	121.5	116.2	90.1	P			
2808-7	N9050 E6150 SELECT 2ND WEST	6"/9"/2	6.6	128.9	4.9	117.5	112.0	86.9	P			
2808-8	N9050 E6250 SELECT 2ND WEST	6"/9"/2	6.6	128.9	6.2	123.1	115.9	89.9	P			
2808-9	N8750 E6275 SELECT 2ND WEST	6"/9"/2	6.6	128.9	5.4	122.9	116.6	90.4	P			
2808-10	N8740 E6360 SELECT 2ND LIFT	6"/9"/2	6.6	128.9	6.7	127.1	119.2	92.4	P			
2808-11	N8850 E6360 SELECT 2ND LIFT	6"/9"/2	6.6	128.9	4.4	123.0	117.9	91.4	P			
2808-12	N8950 E6360 SELECT 2ND LIFT	6"/9"/2	6.6	128.9	5.7	132.7	125.5	97.3	P			
2808-13	N8350 E6550 SELECT 1ST LIFT	6"/9"/1	6.6	128.9	4.8	117.3	111.9	86.8	P			
2808-14	CHANNEL E SELECT 2ND LIFT	8"/12"/2	6.6	128.9	7.5	121.1	113.0	87.7	P			

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 08 month 95 year

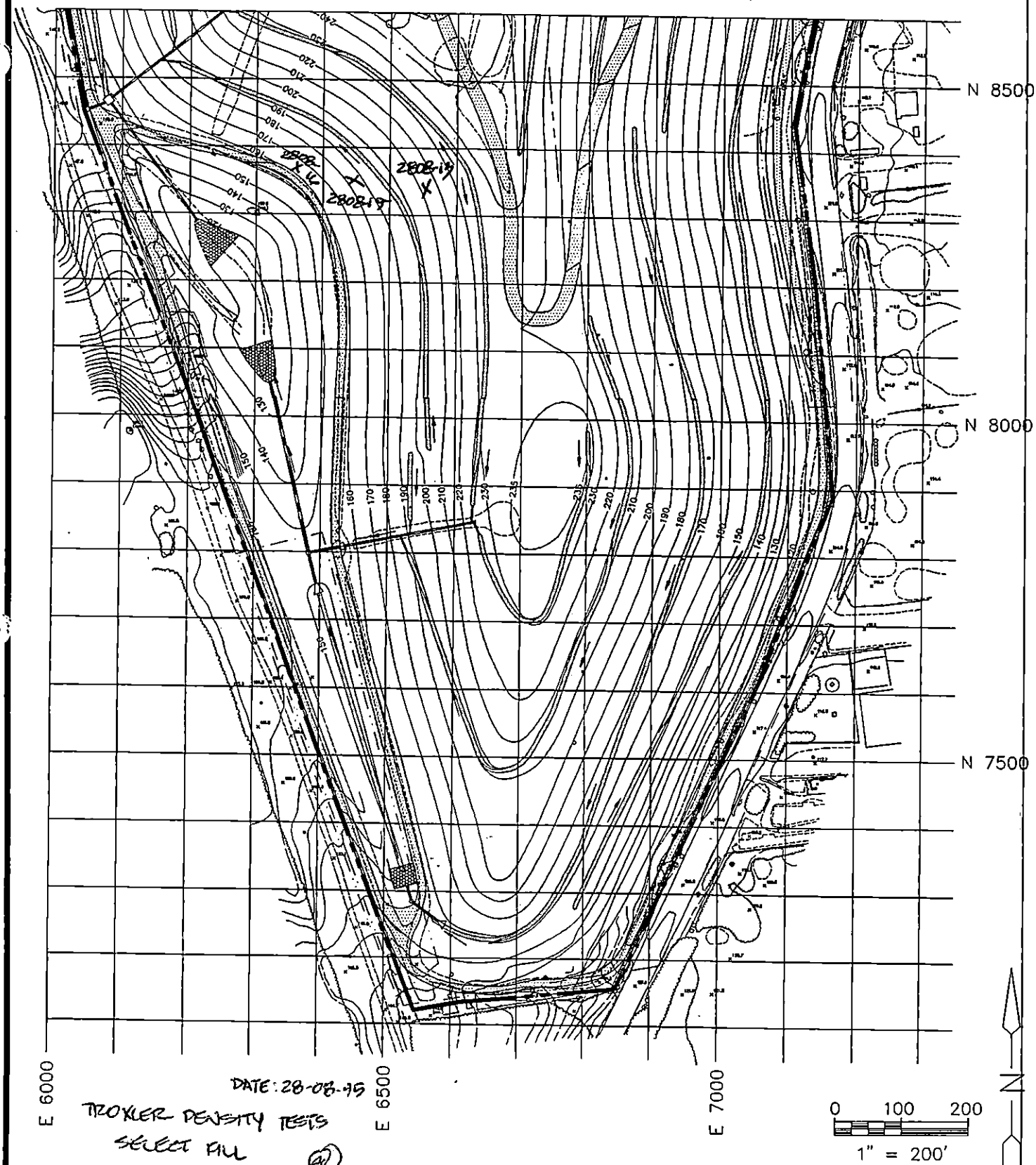
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"/18"
(CIRCLE ONE)

% COMPACTION: ≥85% SELECT MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557: A B C)
(CIRCLE ONE)

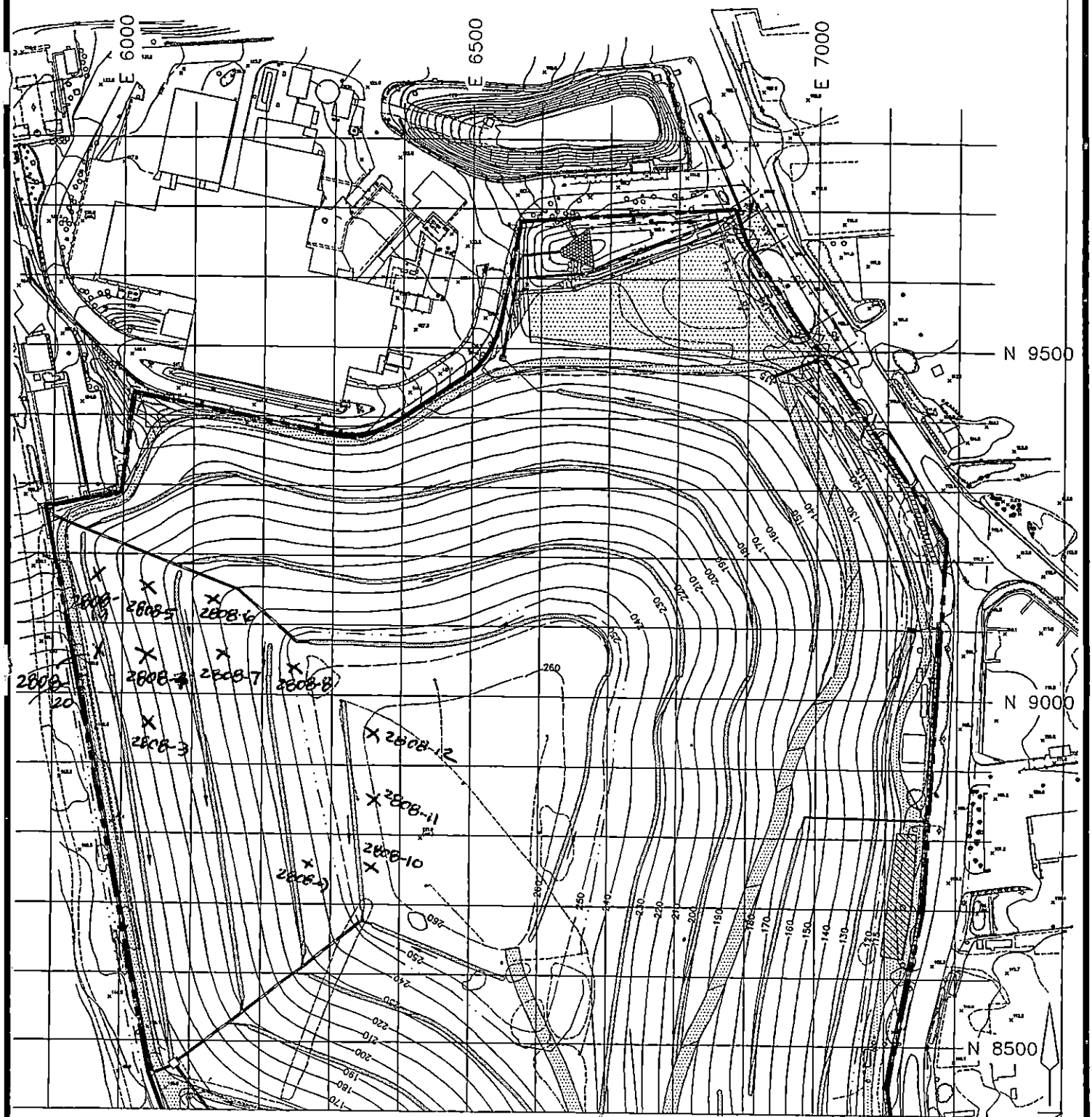
NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO. (AT DEPTH)	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2808-15	N8350 & E6450 WEST SELECT 1ST	6"/10"/1	6.6	128.9	4.6	117.8	112.7	87.4	P			(9)
2808-16	N8850 & E6350 WEST SELECT 1ST	6"/9"/1	6.6	128.9	9.7	121.8	115.3	89.4	P			(10)
2808-17	CHANNEL R 1ST LIFT WEST	8"/18"/1	6.6	128.9	5.3	120.0	114.0	88.4	P			(11)
2808-18	CHANNEL R 2ND LIFT WEST	8"/12"/2	6.6	128.9	5.5	115.9	109.9	85.3	P			(12)
2808-19	N9150 & E5950 WEST SELECT 2ND	6"/9/2	6.6	128.9	5.6	117.0	110.8	86.0	P			(13)
2808-20	N9050 & E6450 WEST SELECT 2ND	6"/9/2	6.6	128.9	5.3	117.4	111.6	86.9	P			(14)



100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1



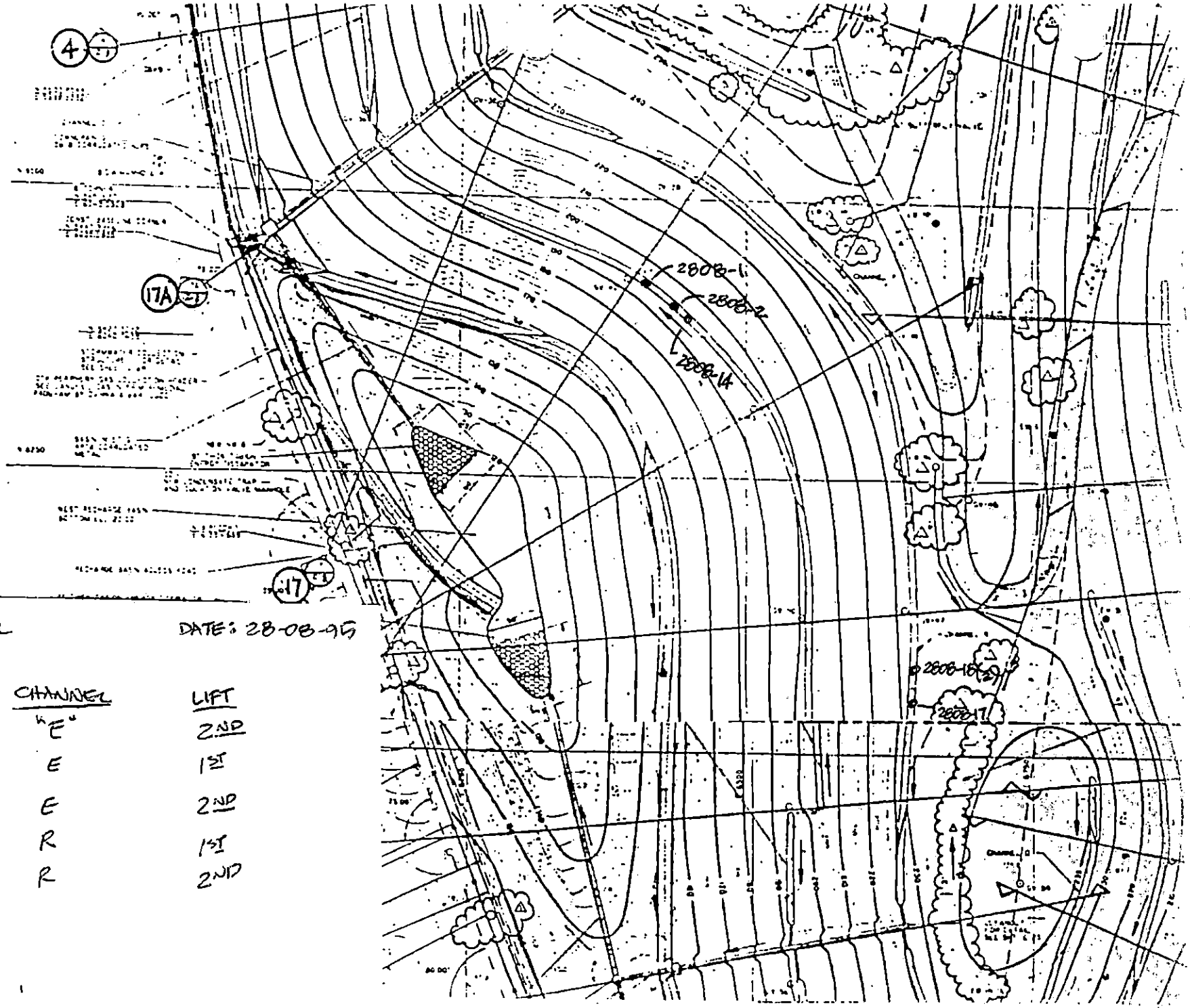
DATE: 28-08-95

TROXLER DENSITY TESTS LOCATION

SELECT FILL

100 (@) FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2



SELECT FILL

DATE: 28-08-95

TEST NO	CHANNEL	LIFT
2808-1	"E"	2ND
2808-2	E	1ST
2808-14	E	2ND
2808-17	R	1ST
2808-18	R	2ND

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 8 month 95 year

SPECIFICATION REQUIREMENTS

18"

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"
(CIRCLE ONE)

% COMPACTION: ≥85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE ACT. DEPTH / ~~DEPTH~~ SELECT LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
29085-1	N 9050 E 6350	N. SELECT 2ND LIFT 6"/9"/2	6.6	128.9	5.9	129.0	121.8	94.5	P			RC/10
29082	N 9150 E 6350	N SELECT 2ND LIFT 6"/9"/2	6.6	128.9	5.4	120.7	114.6	88.9	P			RC/10
29083	N 9150 E 6250	N SELECT 2ND LIFT 6"/9"/2	6.6	128.9	4.9	122.3	116.6	90.5	P			RC/10
29084	N 8450 E 6450	SELECT 2ND LIFT 6/9/2	6.6	128.9	6.4	119.4	112.2	87.1	P			RC/10
29085	N 8350 E 6550	SEL 2ND LIFT 6/9/2	6.6	128.9	6.8	120.7	113.0	87.7	P			RC/10
29086	CHANNEL R	SELECT 2ND LIFT 8/18/2	6.6	128.9	5.0	115.9	110.4	85.6	P			RC/10
29087	CHANNEL R	SELECT 1ST LIFT SELECT 8/18/1	6.6	128.9	6.1	122.6	115.5	89.6	P			RC/10
29088	N 8050 E 6650	1ST LIFT SELECT 6/9/1	6.6	128.9	5.4	120.9	114.7	89.0	P			RC/10
29089	N 8150 E 6650	1ST LIFT SELECT 6/9/1	6.6	128.9	5.3	120.8	114.8	89.1	P			RC/10
290810	N 8250 E 6650	1ST LIFT SELECT 6/9/1	6.6	128.9	5.0	124.2	118.3	91.8	P			RC/10
290811	N 9250 E 6350	2ND SELECT 6/9/2	6.6	128.9	4.6	122.6	117.2	90.9	P			RC/10
290812	N 9250 E 6250	2ND SELECT 6/9/2	6.6	128.9	5.2	122.8	116.8	90.6	P			RC/10
290813	N 9250 E 6150	2ND SELECT 6/9/2	6.6	128.9	3.8	116.5	112.3	87.1	P			RC/10
290814	N 9250 E 6050	2ND SELECT 6/9/2	6.6	128.9	4.8	123.8	118.1	91.6	P			RC/10

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 8 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9" 18"

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
290815	N9260 E5950 SELECT 2ND	6/9/2	6.6	128.9	4.2	121.0	116.1	90.1	P			RC/JD
290816	N9350 E6050 2ND	6/9/2	6.6	128.9	4.1	117.3	112.6	87.4	P			RC/JD
290817	N9350 E6150 2ND	6/9/2	6.6	128.9	4.1	117.0	112.4	87.2	P			RC/JD
290818	N9350 E6250 2ND	6/9/2	6.6	128.9	4.5	117.2	112.2	87.0	P			RC/JD
290819	N9350 E6350 2ND	6/9/2	6.6	128.9	5.3	120.8	114.7	89.0	P			RC/JD
290820	CHANNEL E 1ST LIFT	8/18/1	6.6	128.9	7.2	121.5	113.4	88.0	P			RC/JD
290821	CHANNEL E 2ND LIFT	6/12/2	6.6	128.9	5.7	123.4	116.8	90.6	P			RC/JD
290822	CHANNEL O 1ST	8/18/1	6.6	128.9	7.9	128.1	118.7	92.1	P			RC/JD
290823	CHANNEL Q 2ND	6/12/2	6.6	128.9	7.8	124.1	115.1	89.3	P			RC/JD
290824	N7850 E6650 1ST	6/9/1	6.6	128.9	5.9	123.2	116.3	90.2	P			RC/JD
290825	N7950 E6650 1ST	6/9/1	6.6	128.9	5.7	127.9	121.0	93.9	P			RC/JD
290826	N8650 E6050 2ND LIFT	6/9/2	6.6	128.9	5.0	117.6	112.0	86.9	P			RC/JD
290827	N8250 E6450 1ST	6/9/2	6.6	128.9	6.9	121.1	113.2	87.8	P			RC/JD
290828	N8150 E6450 1ST	6/10/2	6.6	128.9	4.0	114.2	109.8	85.2	P			RC/JD

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 29 day 8 month 95 year

SPECIFICATION REQUIREMENTS

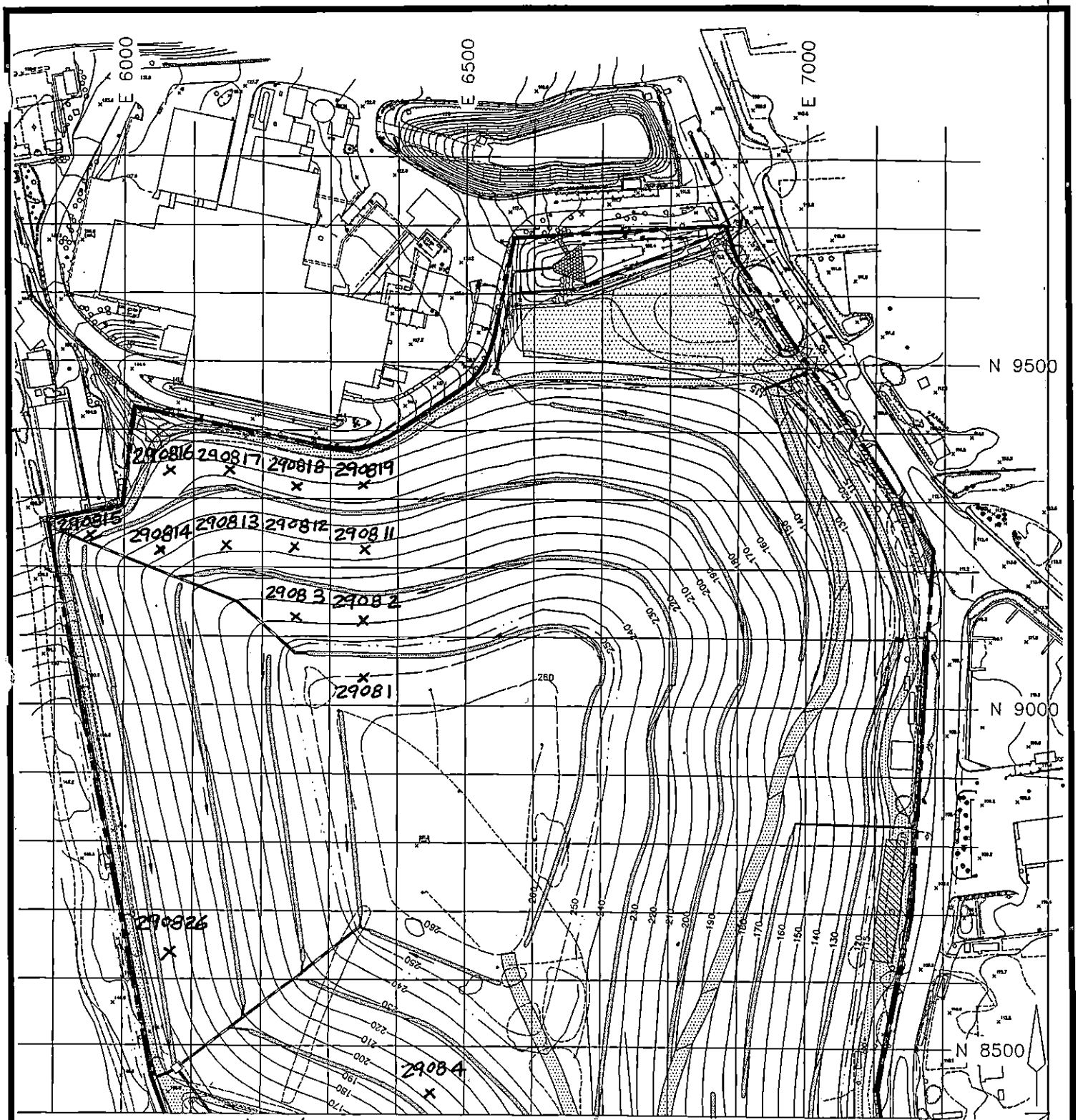
SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/COMPACTED): 9" / 18'

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	FIELD TEST RESULTS WET UNIT WT (PCF)	FIELD TEST RESULTS DRY UNIT WT (PCF)	FIELD TEST RESULTS PERCENT COMPACT (%)	FIELD TEST RESULTS PASS	FIELD TEST RESULTS FAIL	RETEST NO.	QA ID
290829	N 8250 E 6550 SELECT 1ST LIFT	6/8½"/1	6.6	128.9	5.4	116.1	110.2	85.5	P			RC/10

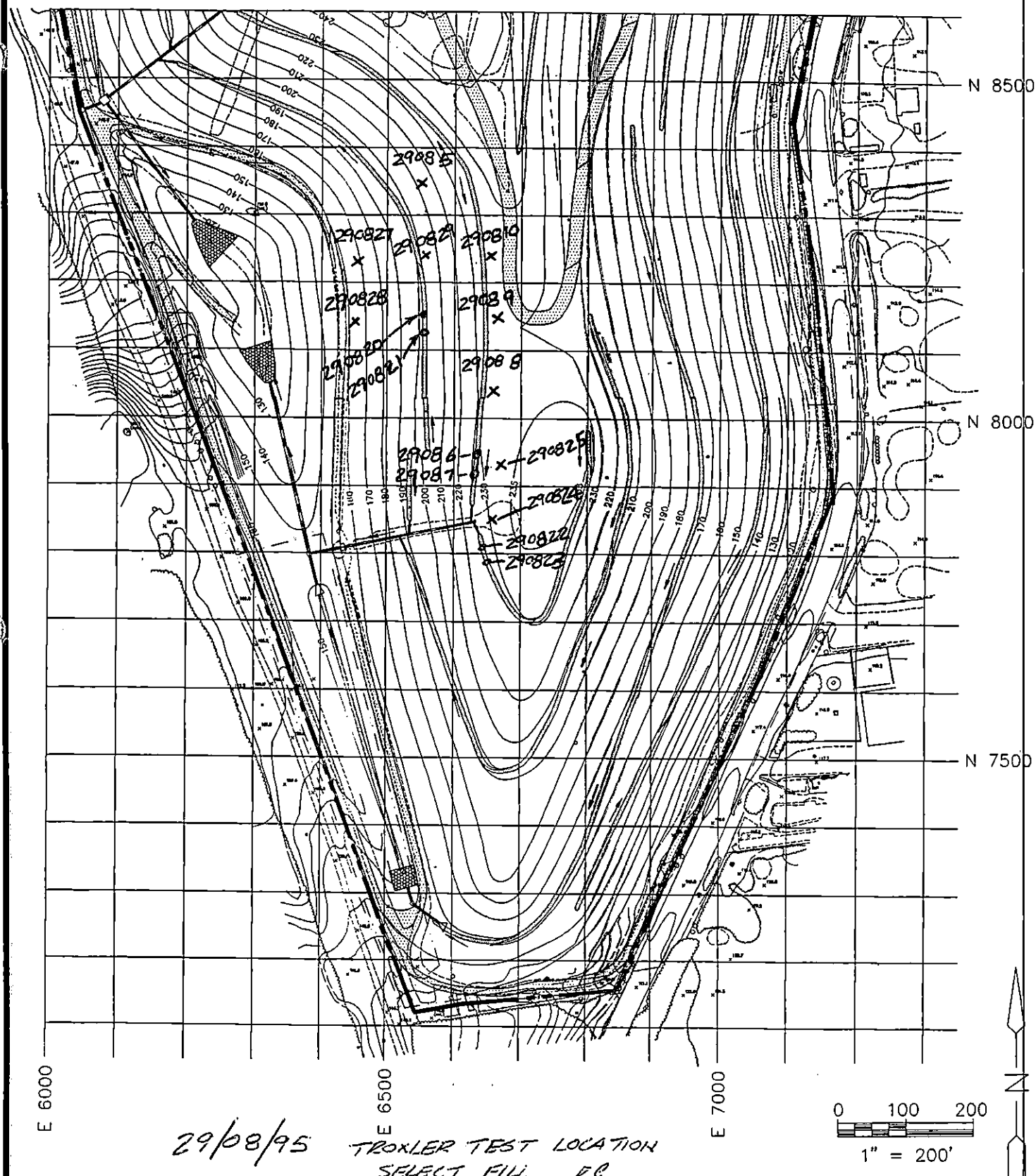
GEO SYNTEC CONSULTANTS FILE NO.: 2-20-FNH



29/8/95 TROXLER TEST LOCATION
SELECT FILL

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2



29/08/95 TROXLER TEST LOCATION
SELECT FILL R.C.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 30 day 8 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)) 9"

% COMPACTION: ~~≥95% SELECT / ≥90% COMMON~~ MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: ✓

TEST NO.	TEST LOCATION	PROBE ~~DEPTH/ ELEV/~~ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
~~3008-1~~	~~N 8050 E 6850~~ COMMON RETEST	6/9/1	8.3	128.6	3.5	128.4	124.0	96.4	P			RC
~~3008Z~~	~~N 7950 E 6860~~ COMMON RETEST	6/10/1	8.3	128.6	3.6	115.0	111.1	86.4		F	3008-3	RC
~~3008-3~~	~~N 7940 E 6850~~ COMMON RETEST	6/10/1	8.3	128.6	3.2	119.1	116.0	90.2	P			RC
~~30084~~	~~N 8150 E 6860~~ COMMON RETEST	6/8/1	8.3	128.6	4.9	131.3	125.2	97.4	P			RC
~~30085~~	~~N 8050 E 6940~~ COMMON RETEST	6/10/1	8.3	128.6	5.1	122.8	116.8	90.9	P			RC
~~30086~~	~~N 7950 E 6950~~ COMMON RETEST	6/8/1	8.3	128.6	5.4	124.5	118.1	91.9	P			RC
~~30087~~	~~N 8250 E 6550~~ SELECT 2ND COMMON	6/9/2	6.6	128.9	5.5	118.6	112.5	87.2	P			RC
~~3008 8~~	~~N 8150 E 6980~~ COMMON RETEST	6/8/1	8.3	128.6	4.1	126.6	121.6	94.5	P			RC
~~30089~~	~~N 8050 E 7020~~ COMMON RETEST	6/8/1	8.3	128.6	4.6	119.4	114.2	88.8		F	30810	RC
~~30810~~	~~N 8050 E 7050~~ COMMON RETEST	6/8/1	~~8.3~~ 6.6	124.9	4.7	118.4	113.1	90.6	P			RC
~~30811~~	~~N 7950 E 7050~~ COMMON RETEST	6/10/1	6.6	124.9	4.5	118.4	113.3	90.7	P			RC
~~30812~~	~~N 7950 E 7120~~ COMMON RETEST	6/9/1	8.3	128.6	4.8	124.9	118.9	92.5	P			RC
~~30813~~	~~N 7950 E 7120~~ COMMON RETEST	6/9/1	8.3	128.6	5.1	122.6	116.6	90.7	P			RC
~~30814~~	~~N 8050 E 7120~~ COMMON RETEST	6/8/1	8.3	128.6	5.6	122.2	115.9	90.0	P			RC

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 30 day 8 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
~~300815~~	~~N 8150 E 7070~~ COMMON RETEST	~~6/8/1~~	8.3	~~1286~~	~~3.6~~	~~120.3~~	~~116.1~~	90.3	P			RC/10
300816	CHANNEL E 1ST	8/8/1	~~8.3~~ 6.6	128.9	7.6	122.0	113.4	87.9	P			RC/10
300817	CHANNE E 2ND	6/12/2	6.6	129.9	4.7	116.1	110.9	86.0	P			RC/10
300818	N 8150 E 6550 1ST	6/9/1	6.6	128.9	5.2	122.2	116.1	90.1	P			RC/10

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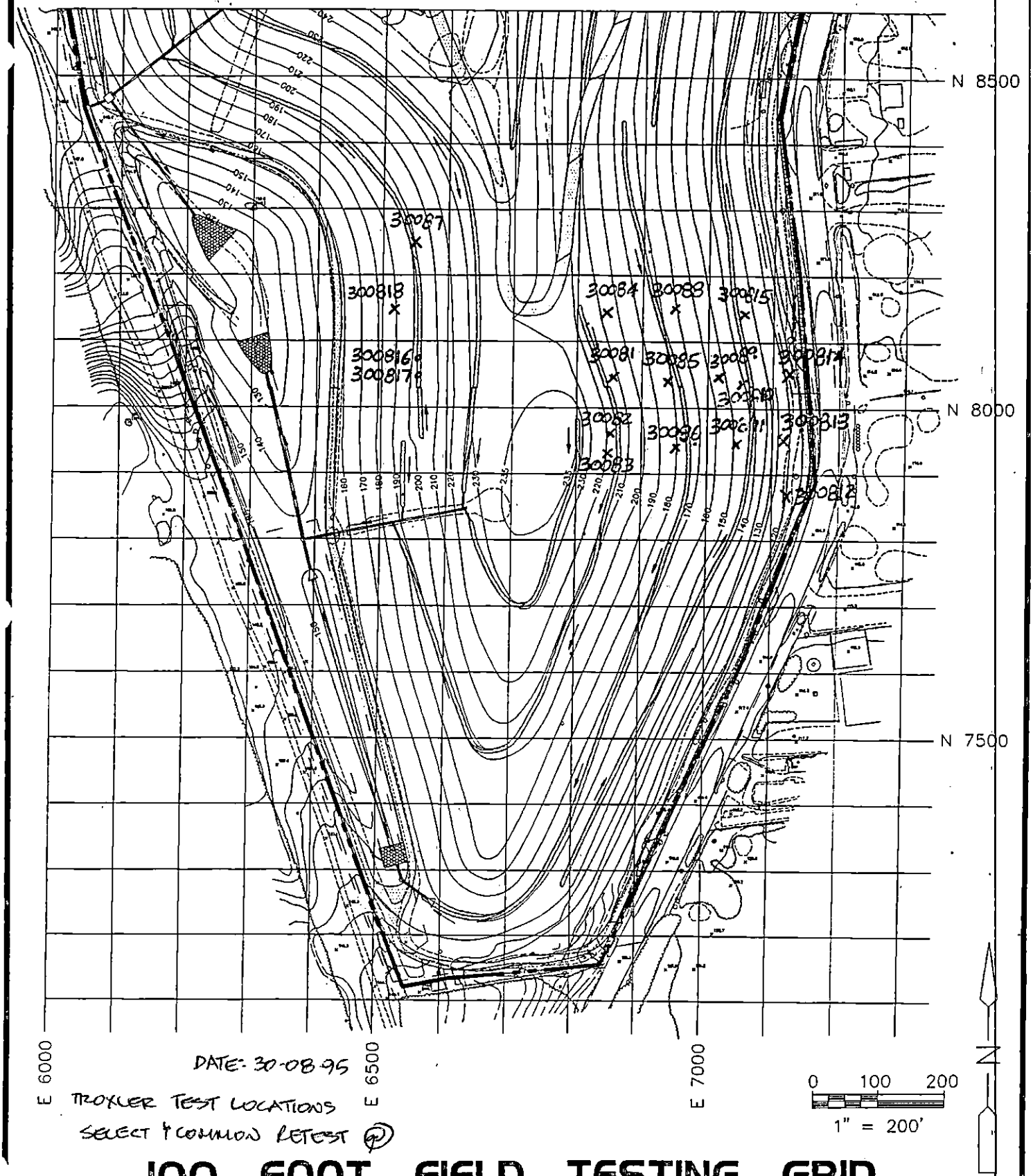
SHEET NO. 42 OF 122



DATE: 30-08-95

TROXLER TEST LOCATIONS

SELECT 4 COMMON RETEST ⊕

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1 CAD FILE NO. C-2C
	REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 31 day 8 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C (ASTM D 1557: A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA-ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
31081	N 8050 E 6570 SELECT 1ST	6/9/1	6.6	128.9	4.9	117.8	112.3	87.1	P			RC
31082	N 8050 E 6450 SELECT 1ST	6/9/1	6.6	128.9	4.0	118.7	114.2	88.6	P			RC
31083	N 8550 E 6090 SELECT 2ND	6/9/2	6.6	128.9	5.1	116.9	111.2	86.3	P			RC
31084	N 8550 E 6150 SELECT 2ND	6/9/2	6.6	128.9	4.4	117.1	112.1	87.0	P			RC
31085	N 8450 E 6160 SELECT 2ND	6/9/2	6.6	128.9	6.5	120.3	113.0	87.7	P			RC
31086	N 8450 E 6250 SELECT 2ND	6/9/2	6.6	128.9	6.0	121.7	114.8	89.1	P			RC
31087	CHANNEL 5 WEST SELECT 1ST	8/18/1	6.6	128.9	6.7	118.3	110.8	86.0	P			RC
31088	CHANNEL 5-W SELECT 2ND	6/12/2	6.6	128.9	6.5	117.7	110.5	85.7	P			RC
31089	N 8050 E 6550 SELECT 2ND	6/9/2	6.6	128.9	6.4	122.3	114.9	89.2	P			RC
310810	N 8150 E 6550 SELECT 2ND	6/9/2	6.6	128.9	7.2	119.9	111.9	86.8	P			RC
310811	CHANNEL 5 SELECT 3RD	6/12/3	6.6	128.9	5.5	126.0	119.4	92.7	P			RC
310812	N 7950 E 6550 SELECT 1ST	6/9/1	6.6	128.9	6.4	117.1	110.1	85.4	P			RC
310813	N 7950 E 6950 SELECT 1ST	6/9/1	6.6	128.9	4.8	118.0	112.6	87.3	P			RC
310814	N 8420 E 6320 SELECT 2ND	6/9/2	6.6	128.9	4.4	115.1	110.2	85.5	P			

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 31 day 8 month 95 year

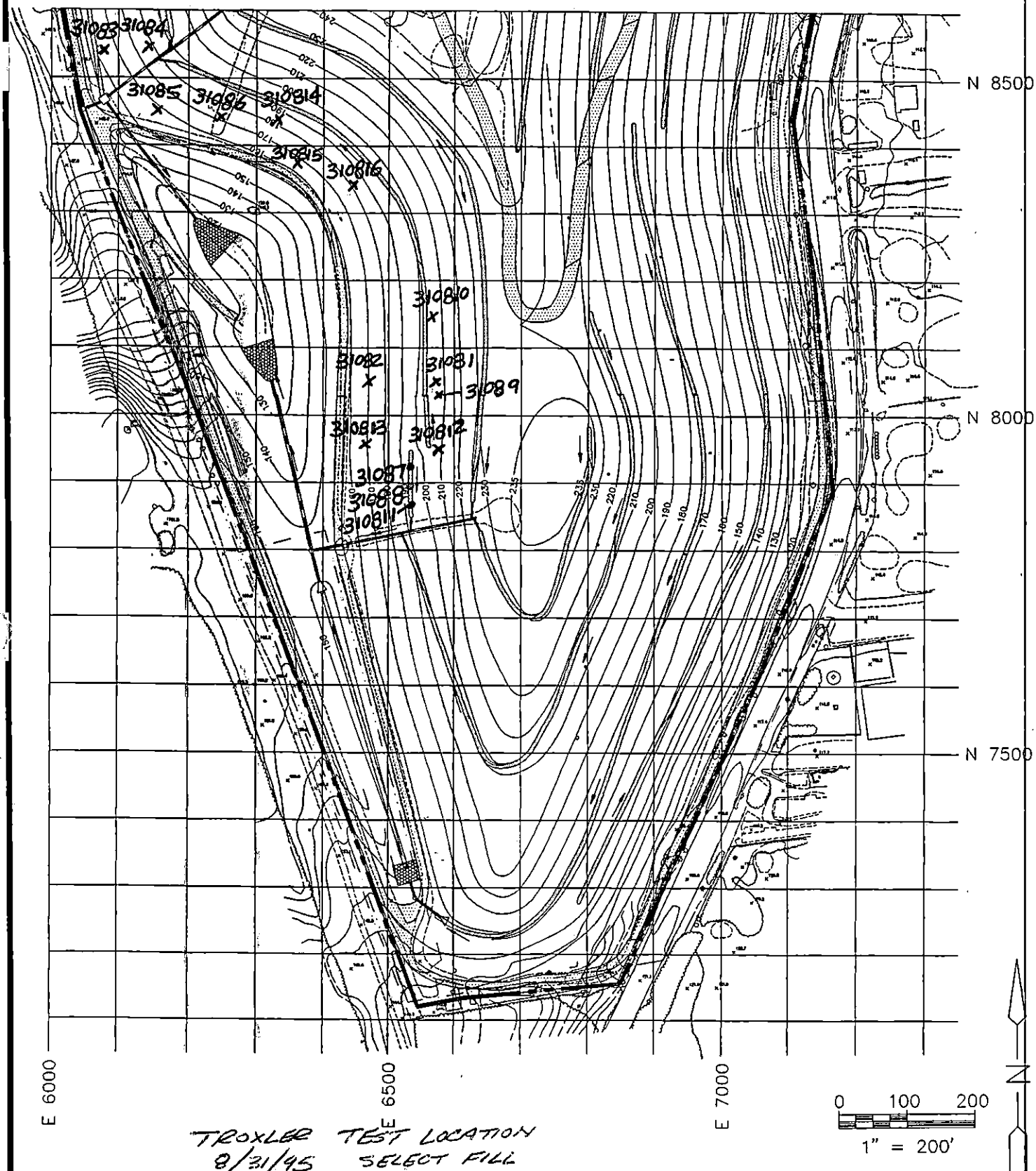
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/COMPACTED): —

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
310815	N837 E6380 SELECT 2ND	6/9/2	6.6	128.9	4.8	115.3	110.5	85.7	P			RC
310816	N8350 E6450 SELECT 2ND	6/9/2	6.6	128.9	5.8	118.3	111.8	86.8	P			RC



TROXLER TEST LOCATION
8/31/95 SELECT FILL

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 1 day 9 month 95 year

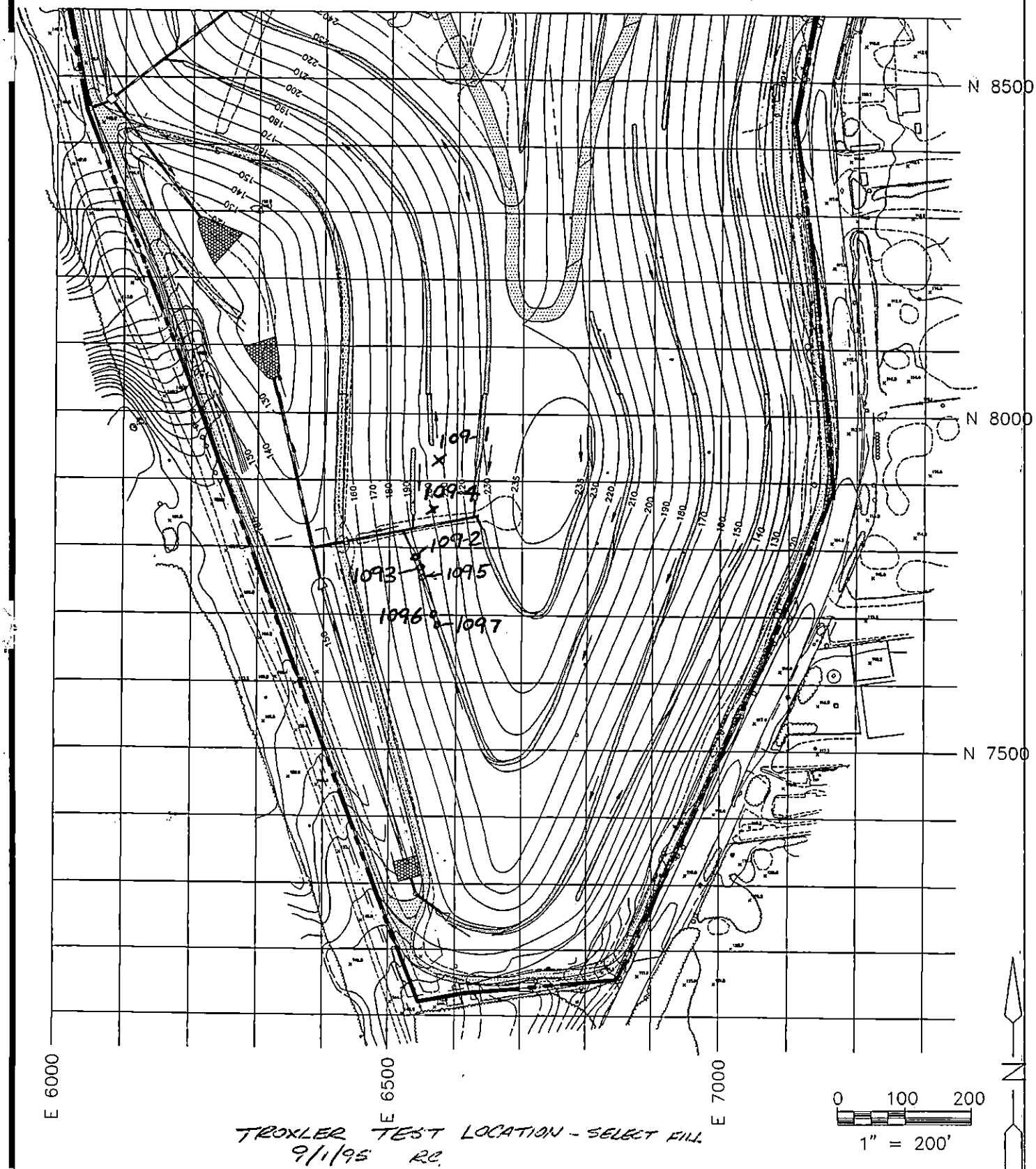
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (CIRCLE ONE) (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE (COMPACTED)): ____

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C (CIRCLE ONE) (ASTM D 1557) A B C

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
109-1	N 7950 E 6560 SELECT 2nd	6/9/2	6.6	128.9	6.1	117.4	110.6	85.8	P			RC
109-2	CHANNEL I WEST SELECT 1ST	8/18/1	6.6	128.9	7.2	128.7	120.1	93.2	P			RC
109-3	CHANNEL I WEST 2ND SELECT	6/12/2	6.6	128.9	6.7	118.3	110.9	86.0	P			RC
109-4	N 7850 E 6560 1ST SELECT	6/9/1	6.6	128.9	5.5	117.3	111.2	86.2	P			RC
109-5	CHANNEL I WEST 3RD SELECT	6/12/3	6.6	128.9	6.8	119.8	112.1	87.0	P			RC
109-6	CHANNEL I W 1ST SELECT	8/19/1	6.6	128.9	6.2	125.2	117.8	91.4	P			RC
109-7	CHANNEL I W 2ND	6/12/2	6.6	128.9	6.0	122.4	115.5	89.6	P			RC



TROXLER TEST LOCATION - SELECT FILL
9/1/95 RC

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 5 day 9 month 95 year

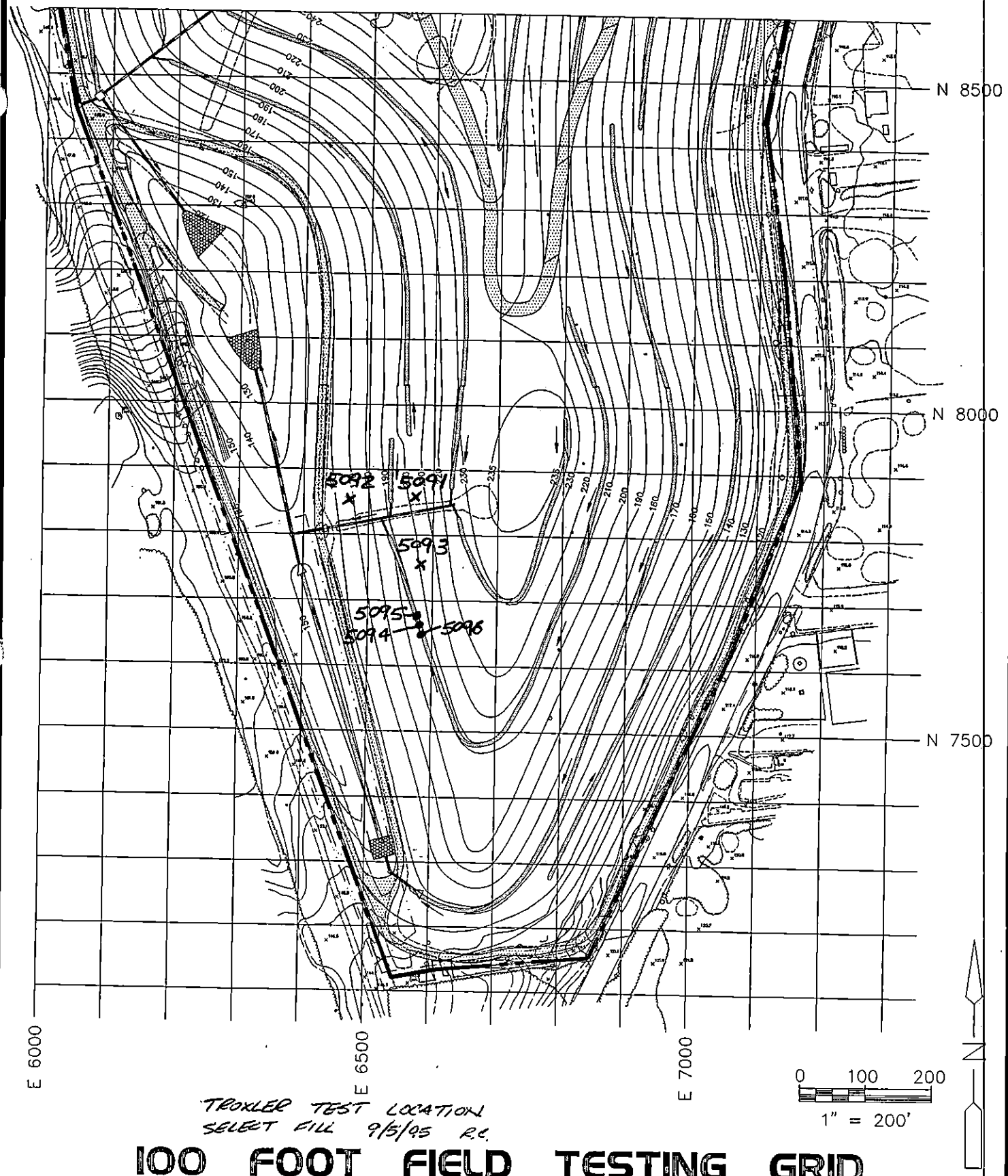
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
S09-1	N 7850 E 6550 SELECT 2ND	6/9/2	6.6	128.9	4.3	115.4	110.7	85.9	P			RC
S09-2	N 7850 E 6450 SELECT 1ST	6/9/1	6.6	128.9	4.9	118.2	112.6	87.4	P			RC
S09-3	N 7750 E 6580 1ST	6/9/1	6.6	128.9	6.1	120.8	113.8	88.3	P			RC
S09-4	CHANNEL I 1ST	6/18/1	6.6	128.9	6.5	123.9	116.3	90.2	P			RC
S09-5	CHANNEL I 2ND	6/12/2	6.6	128.9	6.1	120.9	113.9	88.4	P			RC
S09-6	CHANNEL I 3RD	6/12/2	6.6	128.9	6.0	120.6	113.8	88.3	P			RC



TROXLER TEST LOCATION
SELECT FILL 9/5/95 R.C.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 6 day 9 month 95 year

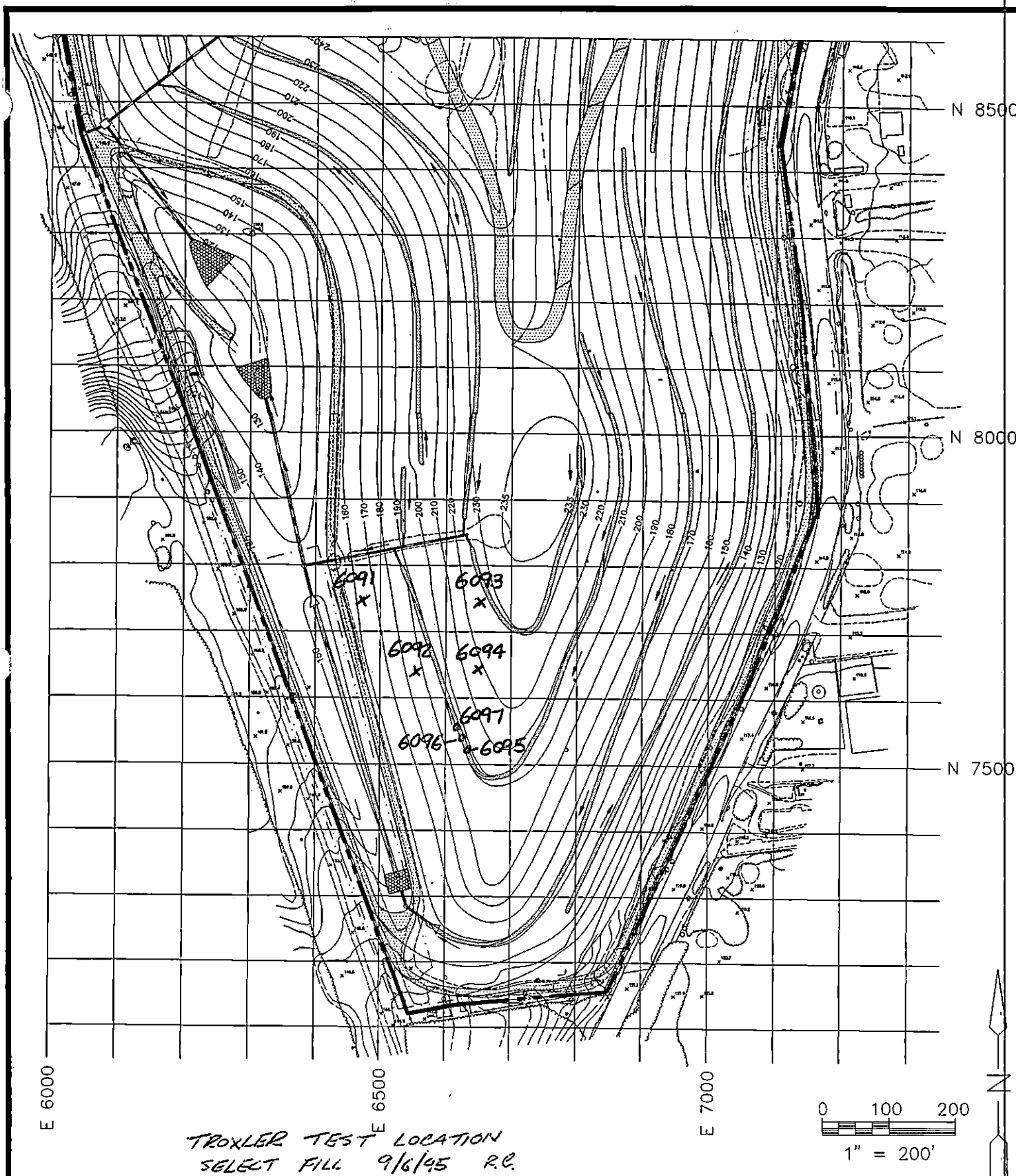
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED)): 9"

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: /

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
6091	N 7750 E 6460 SELECT 1ST	6/9/1	6.6	128.9	5.5	116.6	110.6	85.8	P			RC
6092	N 7650 E 6550 SELECT 1ST	6/9/1	6.6	128.9	3.9	115.1	110.8	85.9	P			RC
6093	N 7750 E 6680 SELECT 1ST	6/9/1	6.6	128.9	5.9	117.7	111.2	86.2	P			RC
6094	N 7650 E 6650 SELECT 1ST	6/9/1	6.6	128.9	6.4	117.2	110.2	85.5	P			RC
6095	CHANNEL I W SELECT 1ST	8/10/1	6.6	128.9	5.9	124.5	117.6	91.2	P			RC
6096	CHANNEL I W SELECT 2ND	6/12/1	6.6	128.9	6.0	125.6	118.5	91.9	P			RC
6097	CHANNEL I W SELECT 3RD	6/12/1	6.6	128.9	5.5	126.1	119.6	92.8	P			RC
~~6098~~	~~N 9150 E 6550~~ COMMON RETEST	~~6/8/1~~	~~8.3~~	~~128.6~~	~~6.6~~	~~123.5~~	~~115.9~~	~~90.1~~	~~P~~			~~RC~~
~~6099~~	~~N 9150 E 6650~~ COMMON RETEST	~~6/8/1~~	~~8.3~~	~~128.6~~	~~4.0~~	~~126.1~~	~~121.2~~	~~94.3~~	~~P~~			~~RC~~
~~6910~~	~~N 9120 E 6750~~ COMMON RETEST	~~6/9/1~~	~~8.3~~	~~128.6~~	~~5.6~~	~~129.5~~	~~122.6~~	~~95.3~~	~~P~~			~~RC~~
~~6911~~	~~N 9250 E 6750~~ COMMON RETEST	~~6/6/1~~	~~8.3~~	~~128.6~~	~~4.7~~	~~127.9~~	~~122.2~~	~~95.0~~	~~P~~			~~RC~~
~~6912~~	~~N 9250 E 6650~~ COMMON RETEST	~~6/9/1~~	~~8.3~~	~~128.6~~	~~5.5~~	~~126.9~~	~~120.3~~	~~93.5~~	~~P~~			~~RC~~
~~6913~~	~~N 9250 E 6650~~ COMMON RETEST	~~6/9/1~~	~~8.3~~	~~128.6~~	~~5.8~~	~~123.1~~	~~115.9~~	~~90.0~~	~~P~~			~~RC~~



TROXLER TEST LOCATION
SELECT FILL 9/6/95 R.C.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 7 day 9 month 95 year

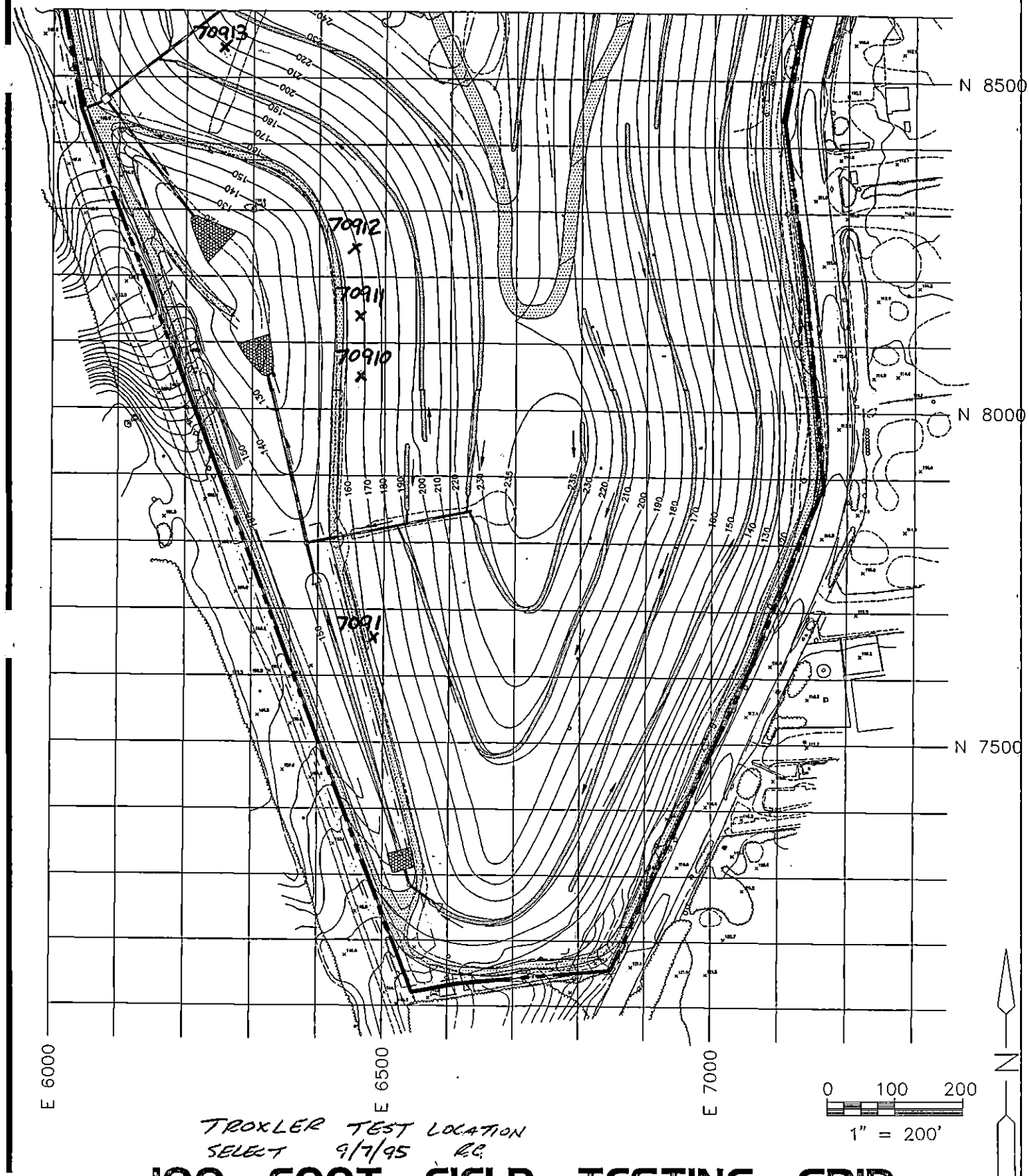
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED)): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
7091	N 7650 E 6480 SELECT 1ST	6/9/1	6.6	128.9	4.8	118.2	112.8	87.5	P			RC
7092	N 9350 E 6560 COMMON	6/9/1	8.3	128.6	4.4	123.0	117.8	91.6	P			RC
7093	N 9350 E 6650 COMMON	6/8/1	8.3	128.6	5.4	124.8	118.4	92.0	P			RC
7094	N 9350 E 6750 COMMON	6/8/1	8.3	128.6	4.5	127.1	121.6	94.6	P			RC
7095	N 9350 E 6850 COMMON	6/9/1	8.3	128.6	5.3	126.1	119.8	93.1	P			RC
7096	N 9450 E 6850 COMMON	6/9/1	8.3	128.6	4.6	123.2	117.8	91.6	P			RC
7097	N 9450 E 6750 COMMON	6/8/1	8.3	128.6	7.7	119.5	116.3	90.4	P			RC
7098	N 9450 E 6650 COMMON	6/9/1	8.3	128.6	4.3	124.2	119.0	92.6	P			RC
7099	N 9450 E 6550 COMMON	6/9/1	8.3	128.6	4.4	122.8	116.7	90.6	P			RC
70910	N 8050 E 6450 2nd	6/9/2	6.6	128.9	5.9	120.4	113.7	88.2	P			RC
70911	N 8150 E 6450 2nd	6/9/2	6.6	128.9	4.8	119.0	113.5	88.1	P			RC
70912	N 8250 E 6450 2nd	6/9/2	6.6	128.9	5.1	119.3	113.5	88.0	P			RC
70913	N 8550 E 6250 2ND	6/9/2	6.6	128.9	4.1	119.4	114.6	88.9	P			RC



TROXLER TEST LOCATION
SELECT 9/7/95 RC

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 8 day 9 month 95 year

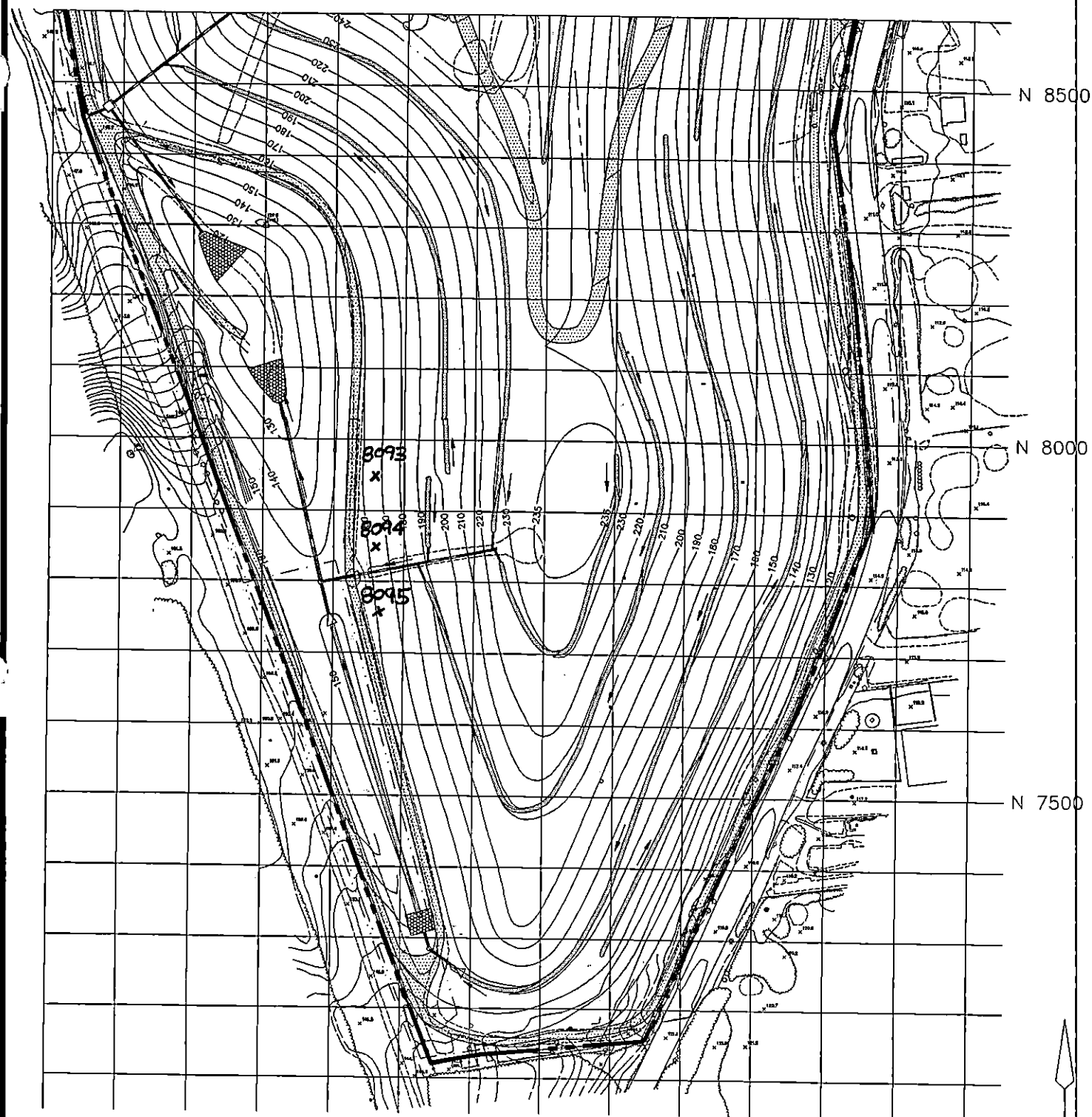
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED)): 9"

% COMPACTION: ≥ 85% SELECT / ≥ 90% COMMON MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR:

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
~~8091~~	~~N 7850 E 6650 COMMON~~	~~6/9/1~~	~~8.3~~	~~128.6~~	~~5.0~~	~~127.1~~	~~121.0~~	~~94.1~~	~~P~~			~~RL~~
~~8092~~	~~N 7950 E 6750 COMMON~~	~~6/9/1~~	~~8.3~~	~~128.6~~	~~6.3~~	~~135.4~~	~~118.0~~	~~91.8~~	~~P~~			~~RL~~
8093	N 7950 E 6450 SELECT 2ND	6/9/2	6.6	128.9	5.0	120.4	114.0	88.4	P			RL
8094	N 7850 E 6450 2ND	6/9/2	6.6	128.9	6.4	122.7	115.3	89.5	P			RL
8095	N 7750 E 6450 2ND	6/9/2	6.6	128.9	5.6	118.0	111.8	86.7	P			RL



TROXLER TEST LOCATION
SELECT FILL 9/8/95 RC.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 11 day 9 month 95 year

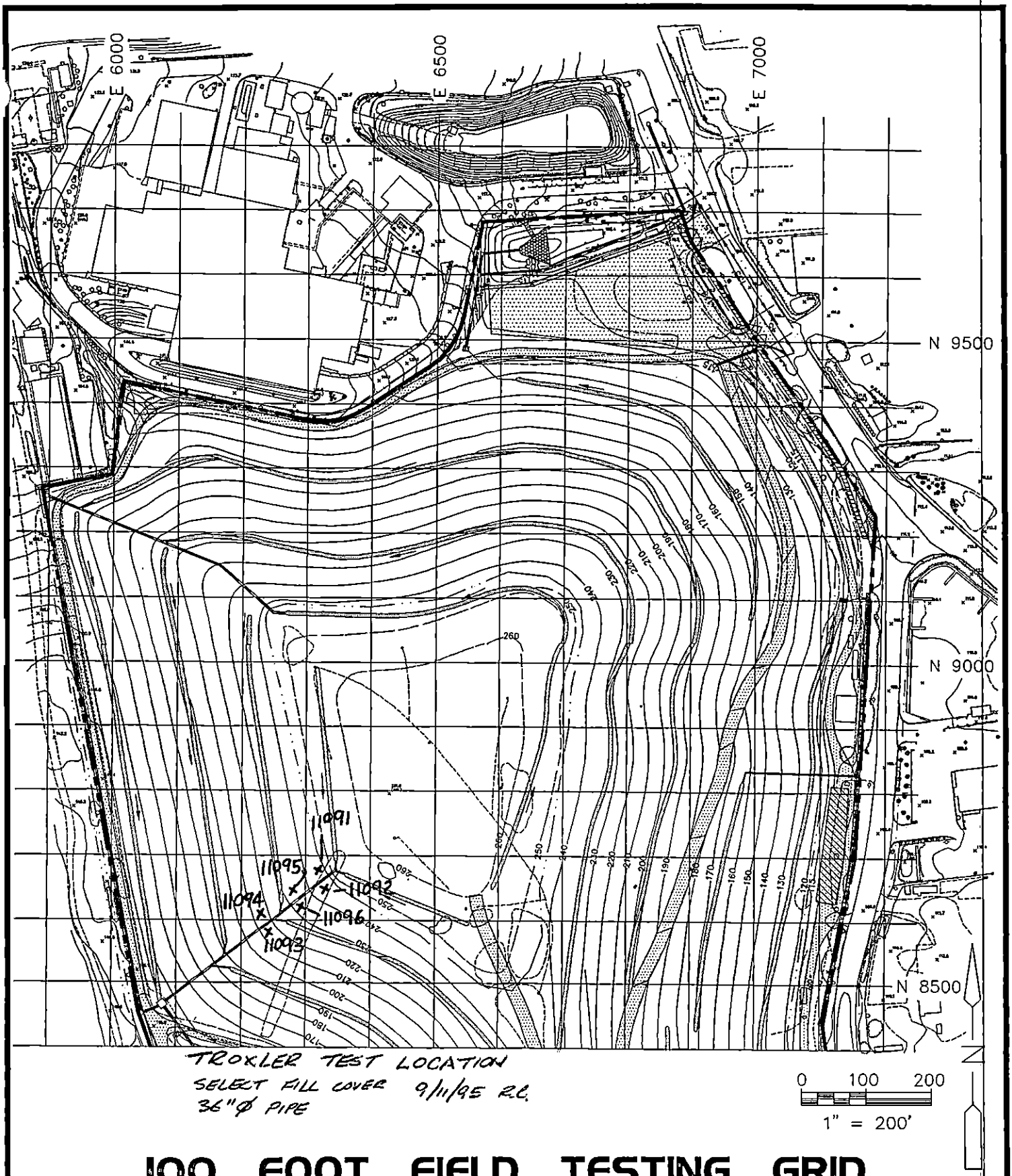
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED): ____

% COMPACTION: ≥ 95% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1109.1	SECTION 17A DOWNDRAIN / ST SELECT	8/18/1	6.6	128.9	4.9	117.1	111.7	86.6	P			RC
1109.2	SECTION 17A DOWNDRAIN / ST SELECT	8/18/1	6.6	128.9	5.4	119.4	113.3	87.9	P			RC
1109.3	SECTION 17A DOWNDRAIN / ST SELECT	8/18/1	6.6	128.9	5.8	118.9	112.4	87.2	P			RC
1109.4	SECTION 17A DOWNDRAIN / ST SELECT	8/18/1	6.6	128.9	6.9	119.7	112.0	86.9	P			RC
1109.5	SECTION 17A DOWNDRAIN 2ND SELECT	8/18/2	6.6	128.9	6.6	118.8	111.5	86.5	P			RC
1109.6	SECTION 17A DOWNDRAIN 2ND SELECT	8/18/2	6.6	128.9	5.6	120.0	114.7	86.0	P			RC



100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 12 day 9 month 95 year

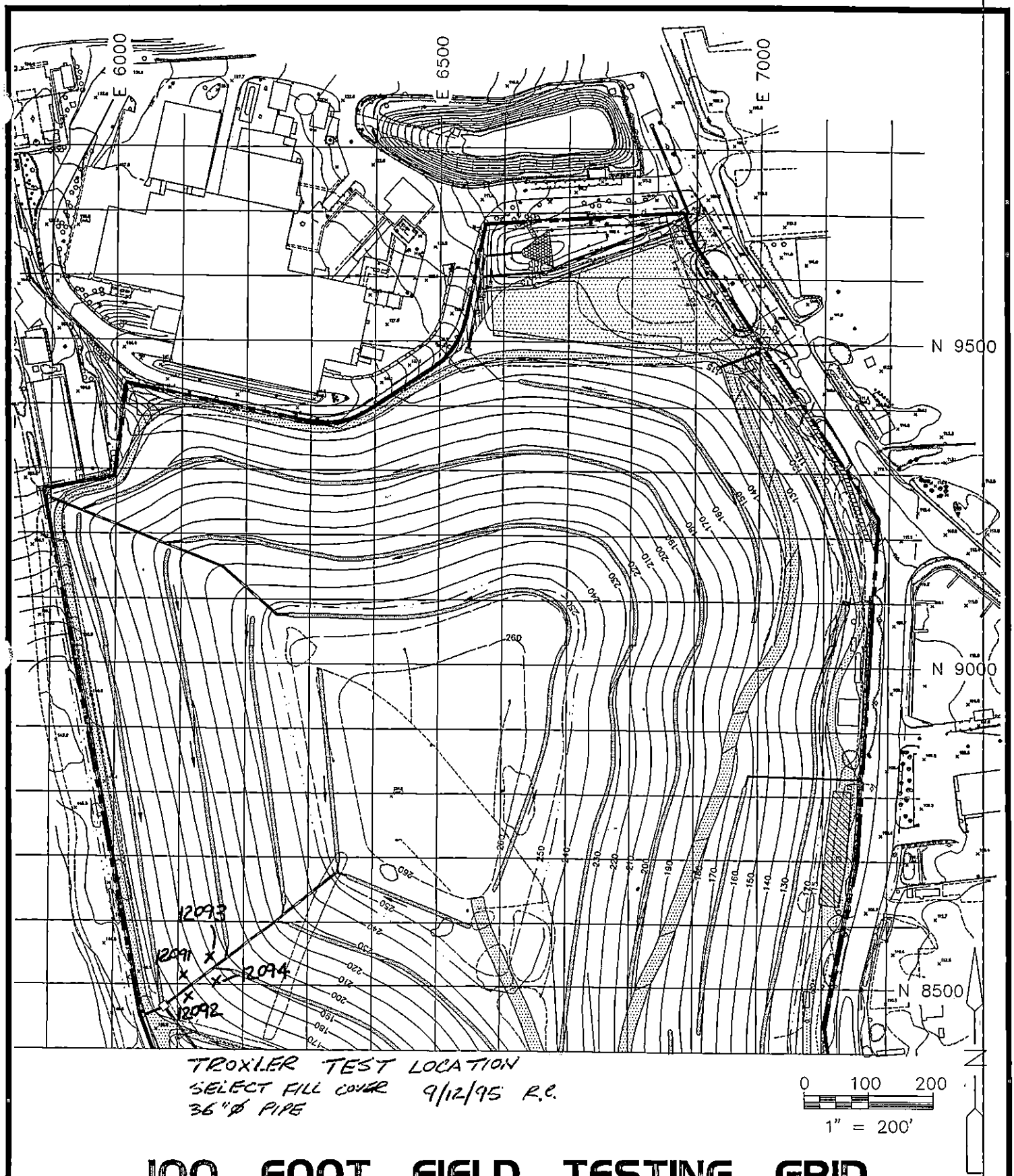
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED)):

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: /

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
12091	SECTION 17A DOWNDRAIN SELECT 1ST	8/18/1	6.6	128.9	3.7	114.7	110.6	85.8	P			RE
12092	SECTION 17A DOWNDRAIN SELECT 1ST	8/18/1	6.6	128.9	4.2	116.9	112.3	86.7	P			RE
12093	SECTION 17A DOWNDRAIN SELECT 2ND	8/18/2	6.6	128.9	3.9	115.1	110.8	85.9	P			RE
12094	SECTION 17A DOWNDRAIN SELECT 2ND	8/18/2	6.6	128.9	4.7	116.1	110.9	86.0	P			RE



100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 18 day 9 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: RETEST EXISTING MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

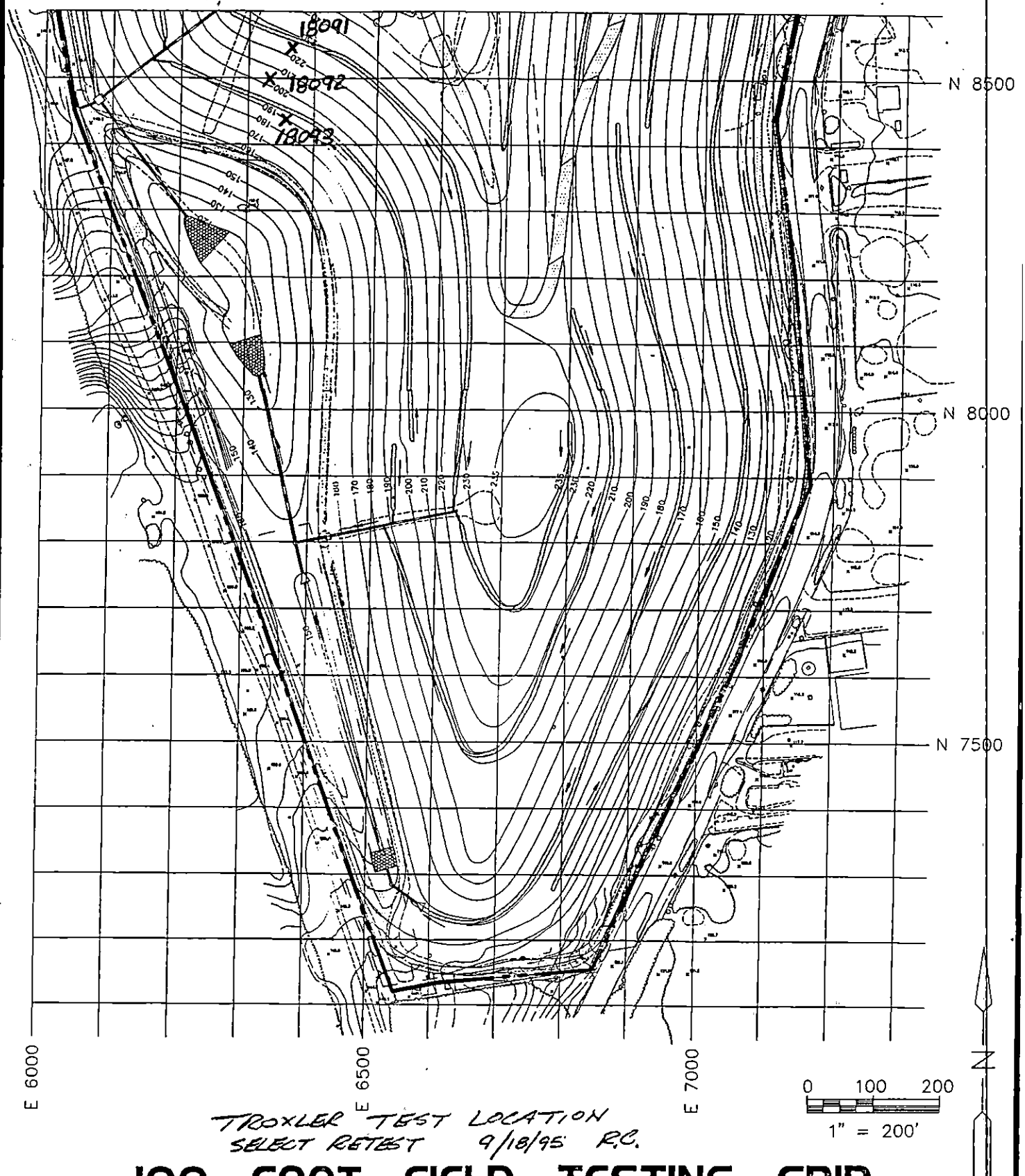
% COMPACTION: ≥85% SELECT MOISTURE RANGE: ± 2%

ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
18091	N8540 E6360	6/9/1	6.6	128.9	8.0	120.3	111.4	86.4	P			
18092	N8500 E6330	6/9/1	6.6	128.9	7.6	121.3	112.8	87.5	P			
18093	N8450 E6350	6/9/1	6.6	128.9	6.8	122.0	114.2	88.6	P			
	BETWEEN SECTION 17 TO 18 — WASH OUT RETEST											

©GEOSYNTEC CONSULTANTS FILE NO.: 2-20-FNM



TROXLER TEST LOCATION
SELECT RETEST 9/18/95 R.C.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 19 day 9 month 95 year

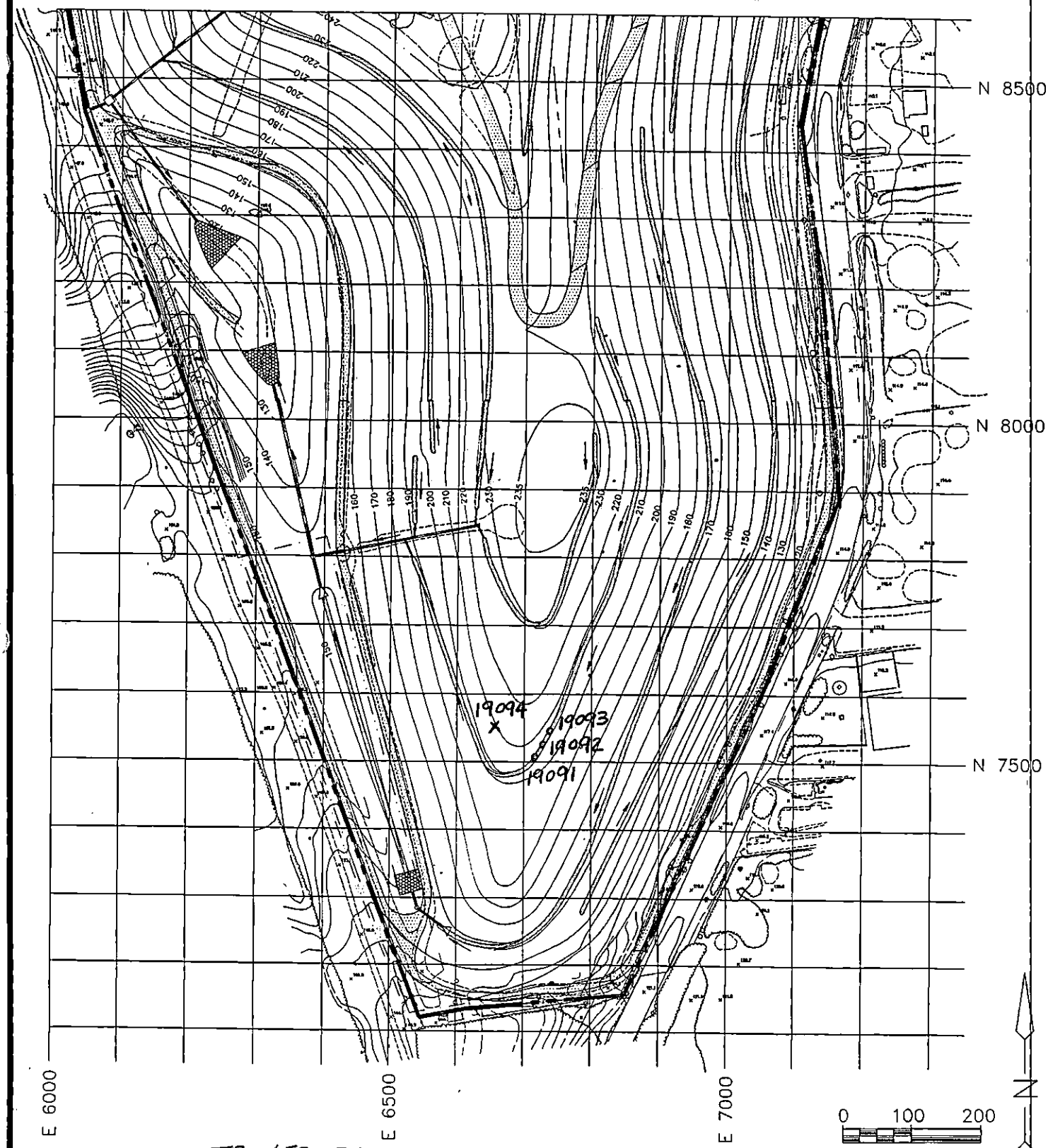
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
19091	CHANNEL I SOUTH 1ST SELECT	8/18/1	6.6	128.9	7.7	125.0	116.0	90.0	P			RC
19092	CHANNEL I SOUTH 2ND SELECT	6/12/2	6.6	128.9	7.1	127.2	118.7	92.1	P			RC
19093	CHANNEL I SOUTH 3RD SELECT	6/12/3	6.6	128.9	7.8	126.1	117.1	90.8	P			RC
19094	N7550 E6650 1ST	6/9/1	6.6	128.9	7.7	125.4	116.5	90.4	P			RC



TROXLER TEST LOCATION
SELECT 9/19/95 RC

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1 CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 20 day 9 month 95 year

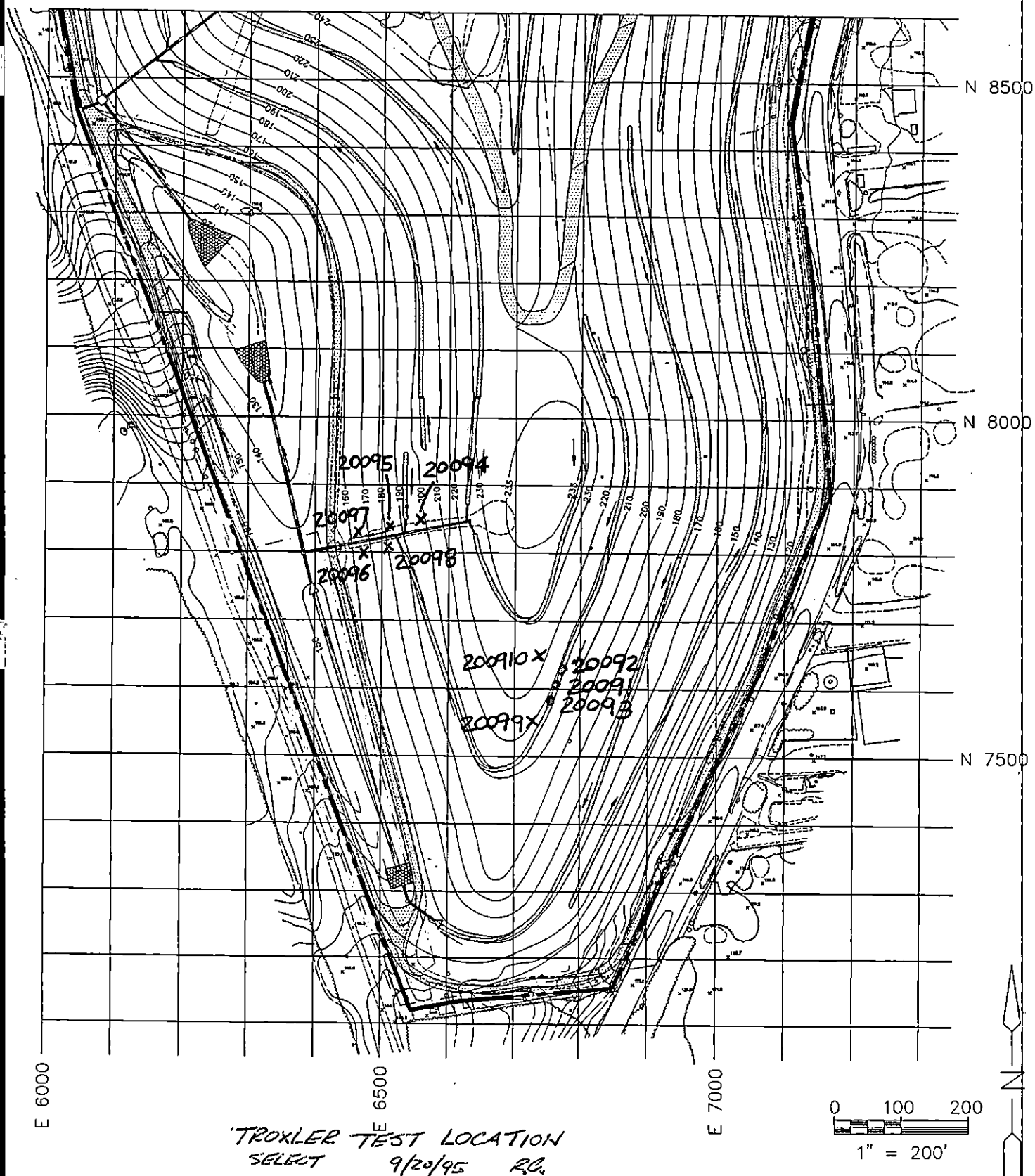
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
20091	CHANNEL I EAST	8/18/1	6.6	128.9	7.3	123.6	115.1	89.3	P			RC
20092	CHANNEL I EAST	6/12/2	6.6	128.9	7.6	126.1	117.2	90.9	P			RC
20093	CHANNEL I EAST	6/12/3	6.6	128.9	6.5	122.2	114.7	89.0	P			RC
20094	SECTION 19W DOWNDRAIN	8/18/1	6.6	128.9	7.5	121.0	112.6	87.3	P			RC
20095	SECTION 19W DOWNDRAIN	8/18/1	6.6	128.9	7.8	120.6	111.9	86.8	P			RC
20096	SECTION 19W DOWNDRAIN	8/18/1	6.6	128.9	7.5	119.6	111.2	86.3	P			RC
20097	SECTION 19W DOWNDRAIN	8/18/2	6.6	128.9	8.4	119.4	110.1	85.4	P			RC
20098	SECTION 19W DOWNDRAIN	8/18/2	6.6	128.9	6.9	121.1	113.3	87.9	P			RC
20099	N 7550 E 6750 1ST	6/8½/1	6.6	128.9	5.5	122.7	116.2	90.2	P			RC
200910	N 7650 E 6750 1ST	6/8½/1	~~6.0~~ 6.6	~~126.1~~ 128.9	8.0	126.1	116.8	90.6	P			RC



TROXLER TEST LOCATION
SELECT 9/20/95 R.C.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 21 day 9 month 95 year

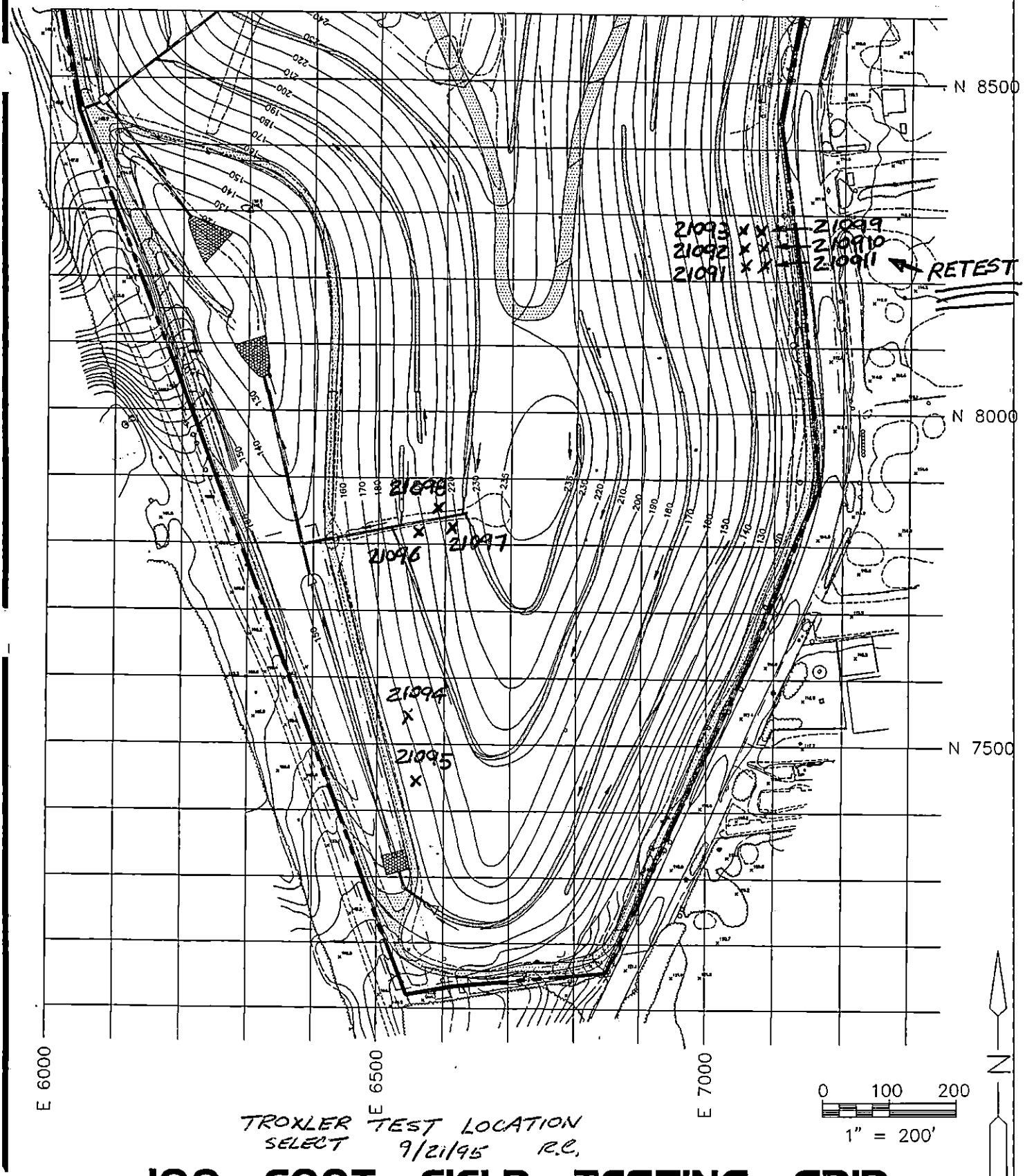
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
21091	TESTPAD RETEST 1ST SELECT	6/9/1	6.6	128.9	4.2	120.9	116.0	90.0	P			RC
21092	TESTPAD RETEST 1ST SELECT	6/9/1	6.6	128.9	7.0	121.1	113.2	87.8	P			RC
21093	TESTPAD RETEST 1ST SELECT	6/9/1	6.6	128.9	5.4	117.8	111.8	86.7	P			RC
21094	N 7550 E 6550 1ST SELECT	6/8/1	6.6	128.9	5.7	117.3	111.0	86.1	P			RC
21095	N 7450 E 6550 1ST SELECT	6/3½/1	6.6	128.9	6.9	121.9	114.1	88.5	P			RC
21096	SECTION 19N DOWNDRAIN 1ST SELECT	8/18/1	6.6	128.9	6.2	117.1	110.3	85.5	P			RC
21097	SECTION 19N DOWNDRAIN 2ND SELECT	8/18/2	6.6	128.9	6.2	117.5	110.7	85.9	P			RC
21098	SECTION 19N DOWNDRAIN 2ND SELECT	8/18/2	6.6	128.9	6.3	116.8	109.8	85.2	P			RC
21099	TESTPAD RETEST 2ND SELECT	6/9/2	6.6	128.9	5.4	120.3	114.2	88.6	P			RC
21910	TESTPAD RETEST 2ND SELECT	6/9/2	6.6	128.9	5.1	116.6	110.9	86.0	P			RC
21911	TESTPAD RETEST 2ND	6/9/2	6.6	128.9	4.3	118.3	113.4	88.0	P			RC



TROXLER TEST LOCATION
SELECT 9/21/95 R.C.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE

PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 22 day 9 month 95 year

SPECIFICATION REQUIREMENTS

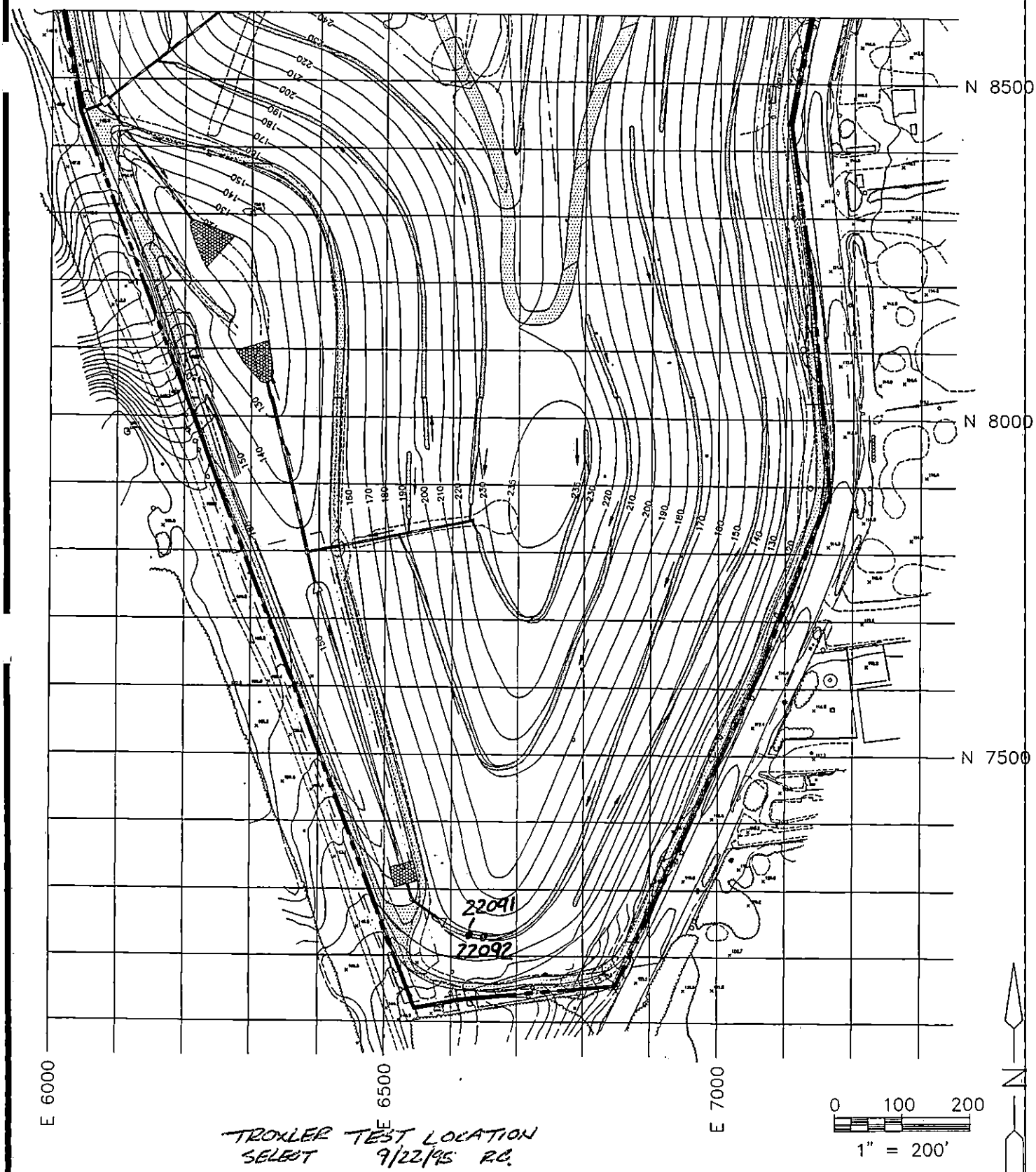
SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE (COMPACTED): ____

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557): A B (C) ____

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: ____

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
22091	CHANNEL H SELECT 1ST	8/18/1	6.6	128.9	8.0	129.0	119.4	92.7	P			RB
22092	CHANNEL H SELECT 2ND	6/12/2	6.6	128.9	9.3	126.3	115.6	89.7	P			RC

©GEOSYNTEC CONSULTANTS FILE NO.: 2-20-FNM



TROXLER TEST LOCATION
SELECT 9/22/95 R.C.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1 CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE PROJECT NO.: GQ3700 TASK NO.: 01

DATE: 25 day 9 month 95 year

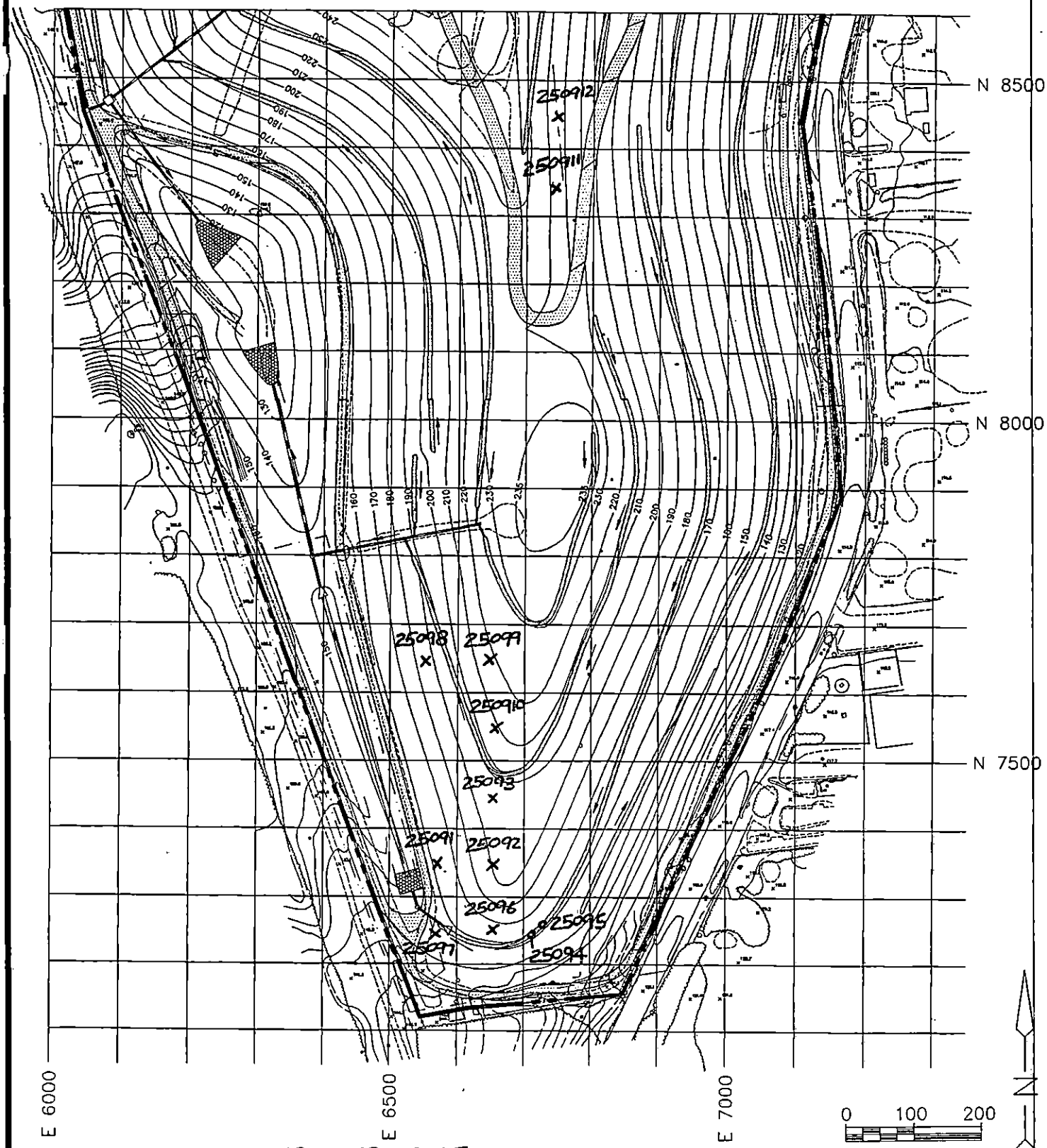
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE (COMPACTED): 9"

% COMPACTION: ≥ 85% SELECT // ~~≥ 90% COMMON~~ MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
25091	N 7350 E 6570 SELECT 1ST	6/9/1	6.6	128.9	8.1	124.0	114.7	89.0	P			RC
25092	N 7350 E 6650 SELECT 1ST	6/8½/1	6.6	128.9	7.5	124.1	115.4	89.5	P			RC
25093	N 7450 E 6650 SELECT 1ST	6/8½/1	6.6	128.9	8.2	125.2	115.7	89.8	P			RC
25094	CHANNEL H SELECT 1ST	8/18/1	6.6	128.9	8.1	125.6	116.2	90.1	P			RC
25095	CHANNEL H SELECT 2ND	6/12/2	6.6	128.9	5.4	121.6	115.3	89.5	P			RC
25096	N 7250 E 6650 SELECT 1ST	6/9/1	6.6	128.9	7.4	119.3	111.1	86.2	P			RC
25097	N 7250 E 6570 SELECT 1ST	6/9/1	6.6	128.9	8.4	120.4	112.3	86.0	P			RC
25098	N 7750 E 6570 SELECT 2ND	6/9/2	6.6	128.9	7.0	122.7	114.7	89.0	P			RC
25099	N 7750 E 6640 SELECT 2ND	6/8/2	6.6	128.9	8.0	120.3	111.4	86.4	P			RC
250910	N 7650 E 6650 SELECT 2ND	6/8/2	6.6	128.9	6.4	118.6	111.6	86.5	P			RC
~~250911~~	~~N 8350 E 6750 COMMON 1ST~~	~~6/8/1~~	~~8.3~~	~~128.6~~	~~7.0~~	~~131.1~~	~~122.5~~	~~95.3~~	P			RC
250912	N 8450 E 6750 COMMON 1ST	6/8/1	8.3	128.6	6.8	128.1	120.0	93.3	P			RC



TROXLER TEST LOCATION
SELECT/COMMON 9/25/95 RC

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 9 month 95 year

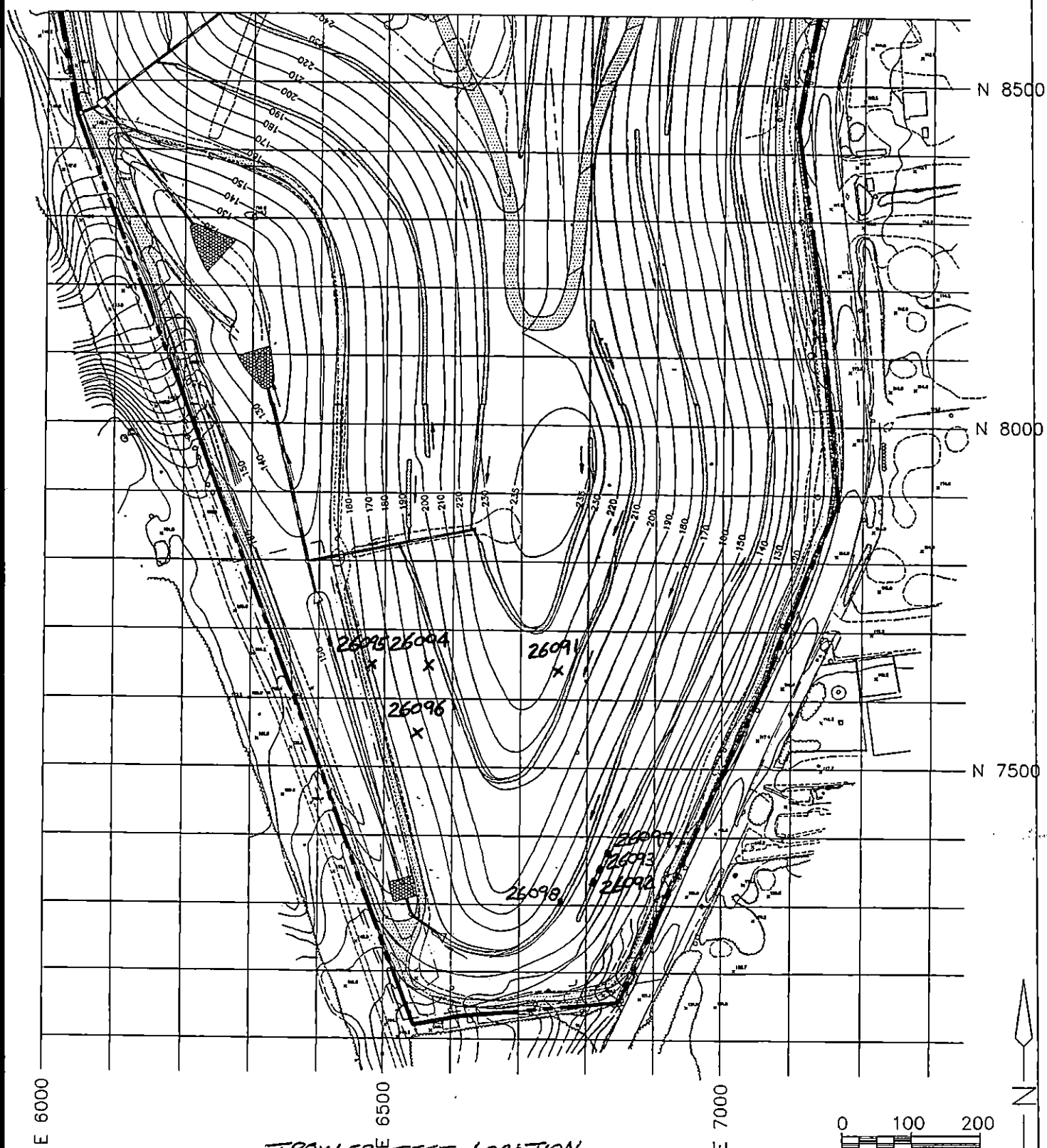
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C (ASTM D 1557: A B C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
26091	N 7650 E 6750 SELECT 2ND SELECT	6/9/2	7.0	130.1	8.7	126.2	116.1	89.3	P			RC
26092	CHANNEL J SOUTH 1ST SELECT	8/18/1	7.0	130.1	10.9	125.7	113.4	87.2	P			RC
26093	CHANNEL J SOUTH 2ND SELECT	6/12/2	7.0	130.1	9.5	125.8	114.9	88.3	P			RC
26094	N 7650 E 6570 2ND SELECT	6/9/2	7.0	130.1	9.2	127.7	117.0	89.9	P			RC
26095	N 7650 E 6470 2ND SELECT	6/9/2	7.0	130.1	12.7	127.1	113.8	87.5	P			RC
26096	N 7550 E 6550 2ND	6/8½/2	7.0	130.1	8.7	125.4	115.4	88.7	P			RC
26097	CHANNEL J 3RD	6/12/3	7.0	130.1	10.1	126.2	114.6	88.1	P			RC
26098	CHANNEL H 3RD	6/12/3	7.0	130.1	8.9	126.4	116.1	89.2	P			RC



TROXLER TEST LOCATION
SELECT 9/26/95 R.C.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 9 month 95 year

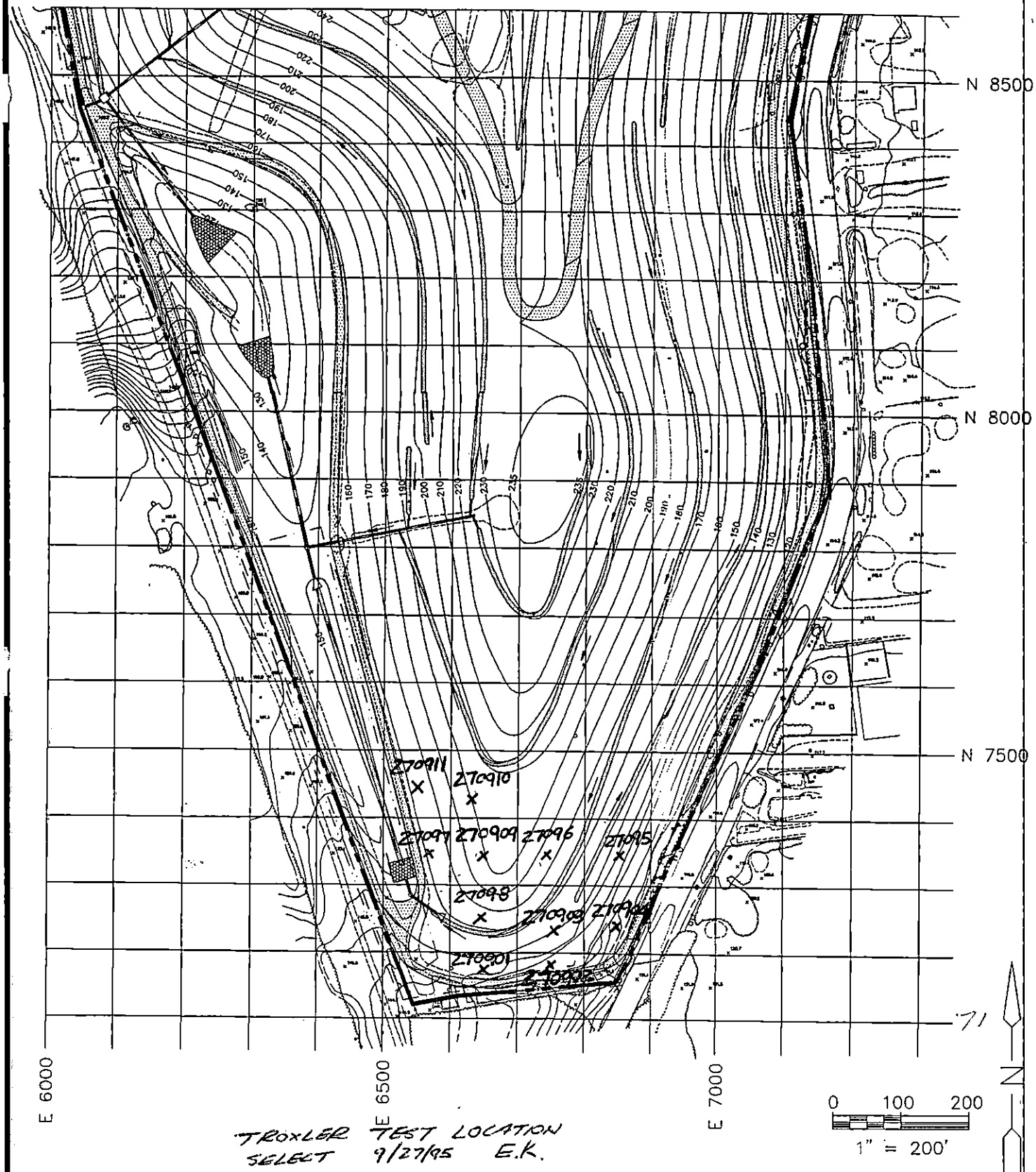
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE (COMPACTED): (CIRCLE ONE)

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
27091	N 7170 E 6650	SELECT 1ST SELECT 6/8.5/1	7.0	130.1	9.8	123.1	112.1	86.2	P			RG
27092	N 7170 E 6750	1ST SELECT 6/9/1	7.0	130.1	7.7	130.5	121.1	93.1	P			RG
27093	N 7250 E 6750	1ST SELECT 6/9/1	7.0	130.1	6.9	119.9	112.1	86.2	P			RG
27094	N 7250 E 6850	1ST SELECT 6/8.5/1	7.0	130.1	7.0	119.8	112.9	86.4	P			RG
27095	N 7350 E 6850	1ST SELECT 6/9/1	7.0	130.1	8.8	127.0	116.7	89.7	P			RG
27096	N 7350 E 6750	1ST SELECT 6/9/1	7.0	130.1	7.7	120.3	111.7	85.9	P			RG
27097	N 7350 E 6550	2ND SELECT 6/9/2	7.0	130.1	7.0	126.8	118.5	91.1	P			RG
27098	N 7250 E 6650	2ND SELECT 6/9/2	7.0	130.1	7.5	126.4	117.6	96.4	P			RG
27099	N 7350 E 6650	2ND SELECT 6/25/2	7.0	130.1	6.9	119.7	112.0	86.1	P			RG
270910	N 7450 E 6650	2ND SELECT 6/9/2	7.0	130.1	7.3	121.3	113.0	86.8	P			RG
270911	N 7450 E 6550	2ND 6/8/2	7.0	130.1	6.3	118.7	111.7	85.9	P			RG



TROXLER TEST LOCATION
SELECT 9/27/95 E.K.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 9 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

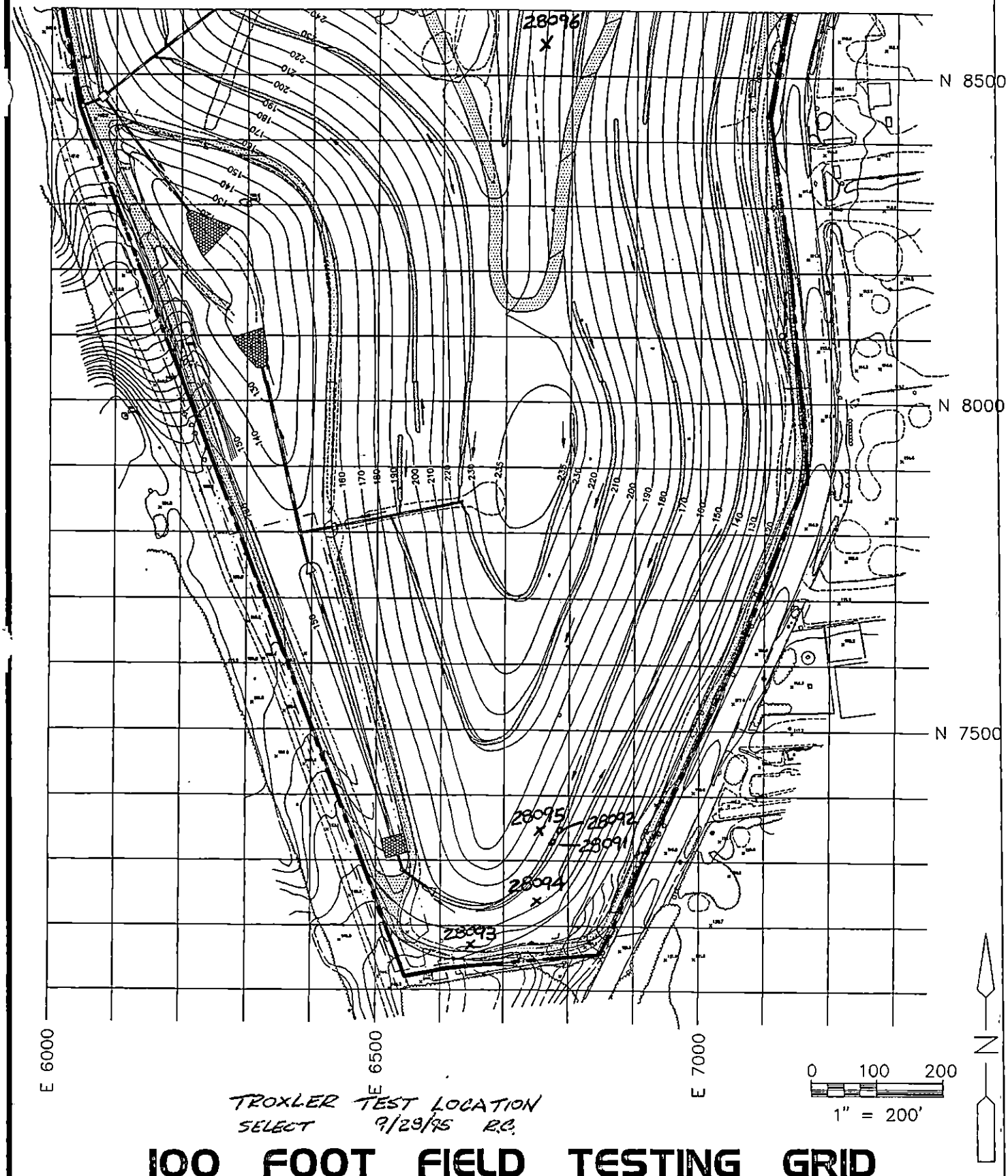
(CIRCLE ONE)

% COMPACTION: (≥ 85% SELECT) ~~≥ 90% COMM~~ MOISTURE RANGE: ± 2 % ASTM D 698: A B C / (ASTM D 1557) A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

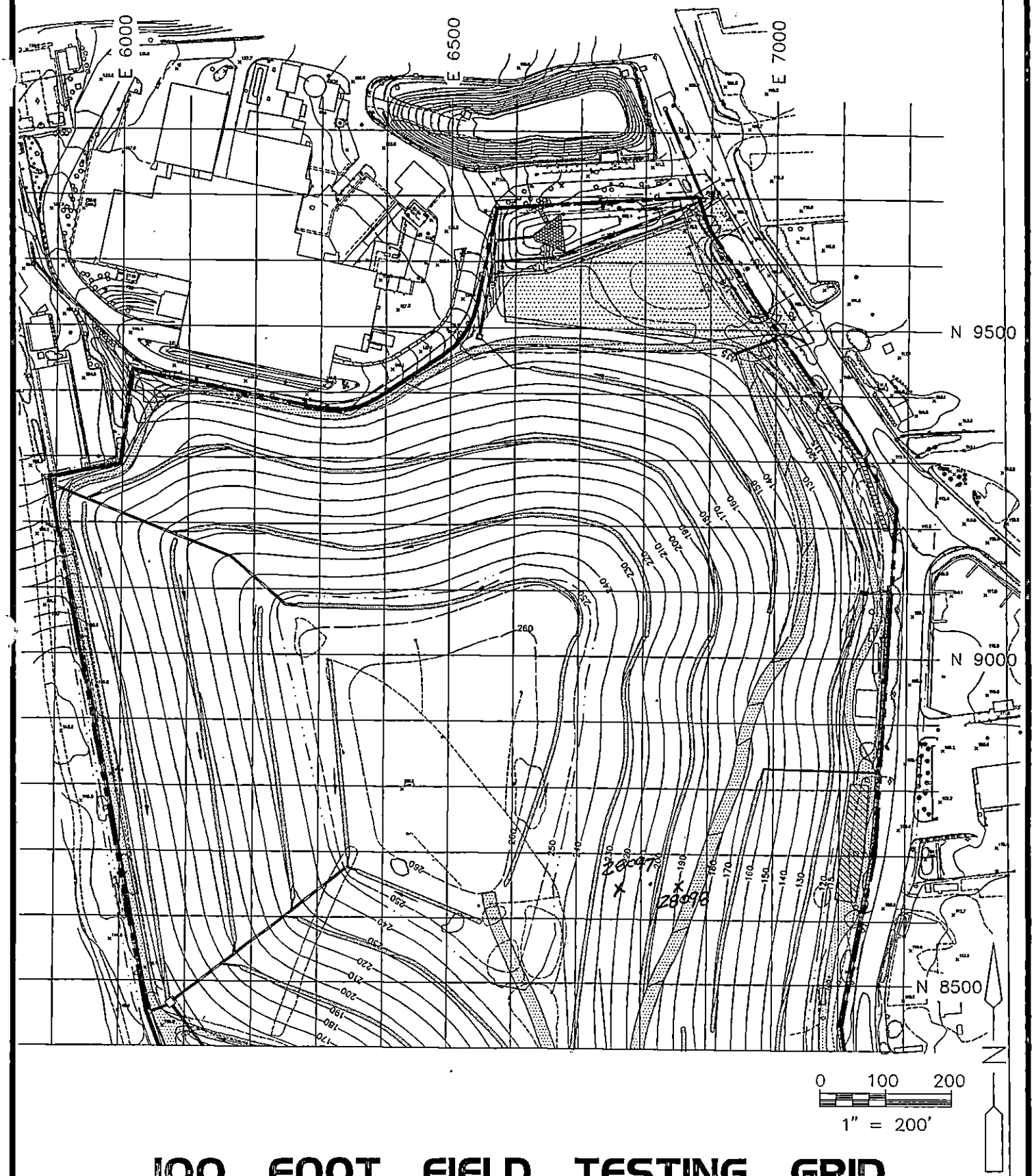
TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
28091	CHANNEL H SOUTH 1ST SELECT	8/18/1	7.0	130.1	8.0	126.2	116.8	89.8	P			RC
28092	CHANNEL H SOUTH 2ND SELECT	6/12/2	7.0	130.1	8.2	121.2	112.0	86.1	P			RC
28093	N7150E 6650 2ND SELECT	6/8/2	7.0	130.1	7.9	124.2	115.1	88.5	P			RC
28094	N7250E 6750 2ND SELECT	6/8.5/2	7.0	130.1	5.6	120.9	114.5	88.0	P			RC
28095	N7350E 6750 2ND COMMON	6/8.5/2	7.0	130.1	7.0	118.4	110.7	85.1	P			RC
~~28096~~	~~N8550E 6750 1ST COMMON~~	~~6/8/1~~	~~6.6~~	~~128.6~~	~~9.0~~	~~126.8~~	~~116.3~~	~~90.5~~	~~P~~			~~RC~~
~~28097~~	~~N8650E6750 1ST COMMON~~	~~6/7/1~~	~~6.6~~	~~128.6~~	~~8.6~~	~~126.9~~	~~116.7~~	~~90.9~~	~~P~~			~~RC~~
~~28098~~	~~N8850E 6850 1ST~~	~~6/9/1~~	~~6.6~~	~~128.6~~	~~8.4~~	~~126.6~~	~~116.4~~	~~90.2~~	~~P~~			~~RC~~



TROXLER TEST LOCATION
SELECT 9/29/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 29 day 9 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

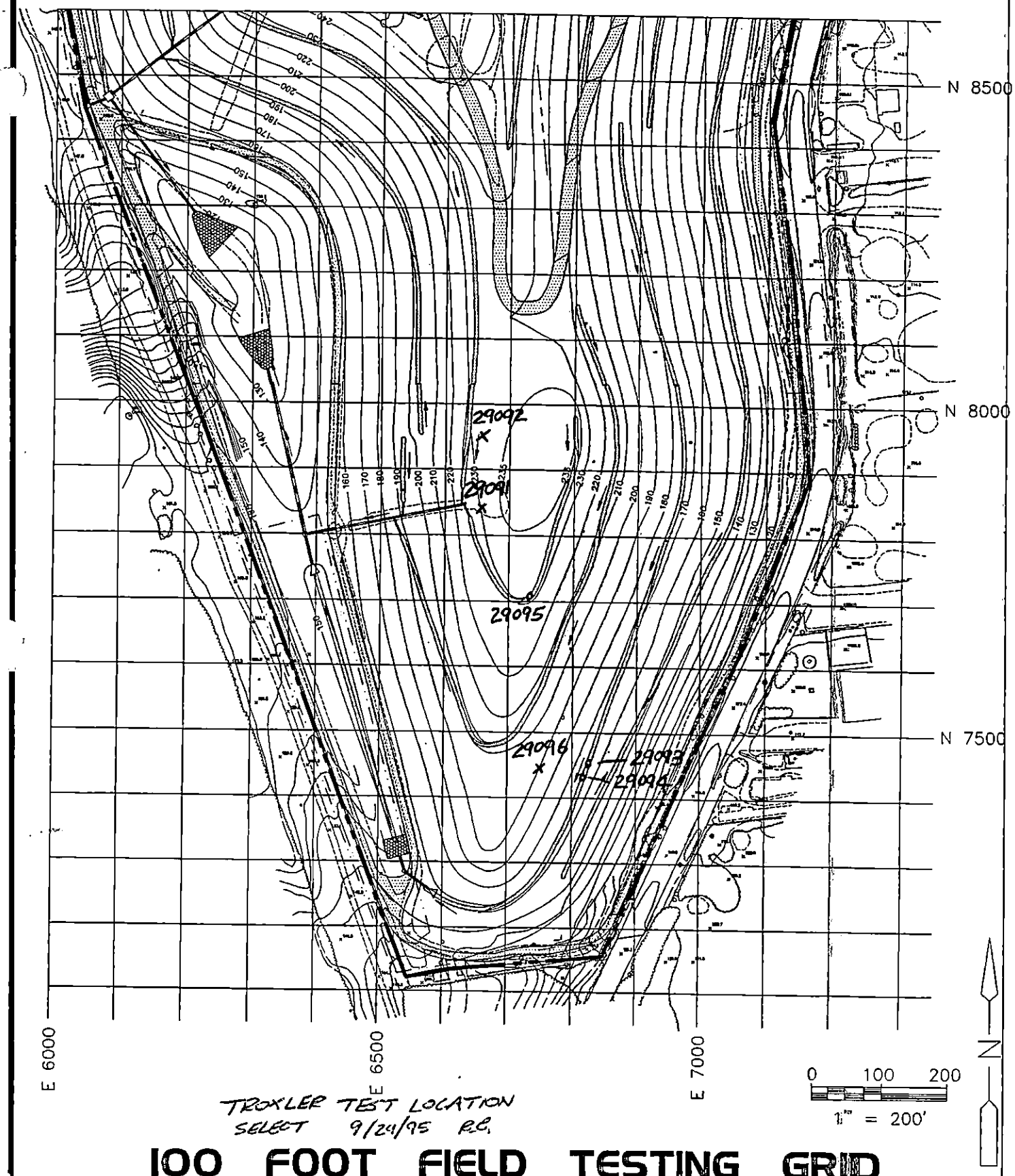
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
29091	N 785 E 6650 2ND	6/9/2	7.0	130.1	7.2	132.1	123.3	94.8	P			RG
29092	N 795 E 6650 2ND	6/9/2	7.0	130.1	9.5	132.6	121.1	93.1	P			RG
29093	CHANNEL H 1ST	8/18/1	7.0	130.1	8.6	122.9	113.2	87.0	P			RG
29094	CHANNEL H 2ND	6/12/2	7.0	130.1	9.1	120.8	110.7	85.1	P			RG
29095	CHANNEL Q 1ST	8/18/1	7.0	130.1	7.0	120.3	112.4	86.4	P			RG
29096	N 745 E 6750 1ST	6/8/1	7.0	130.1	5.6	118.6	112.3	86.4	P			RG



TROXLER TEST LOCATION
SELECT 9/24/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 2 day 10 month 95 year

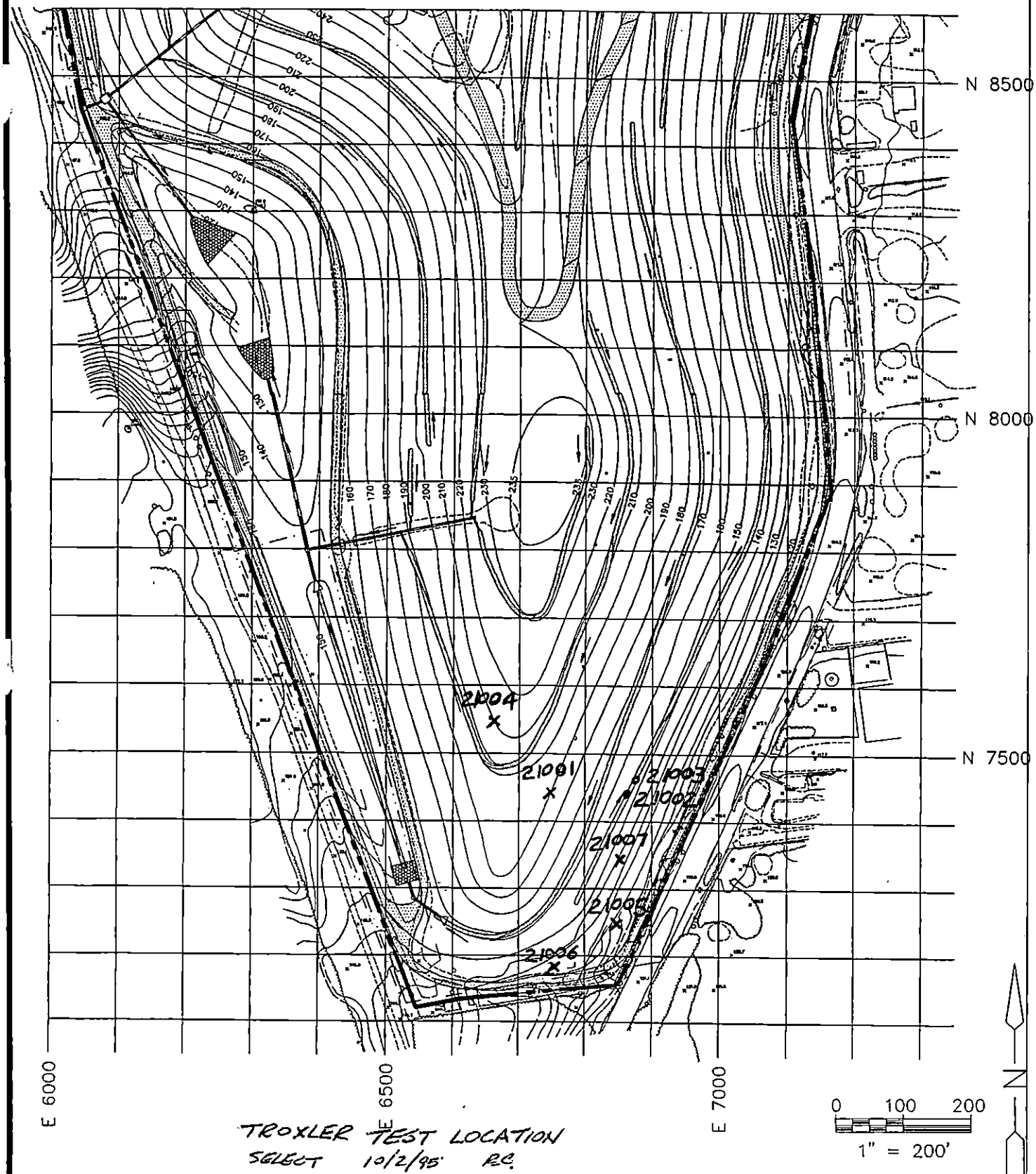
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

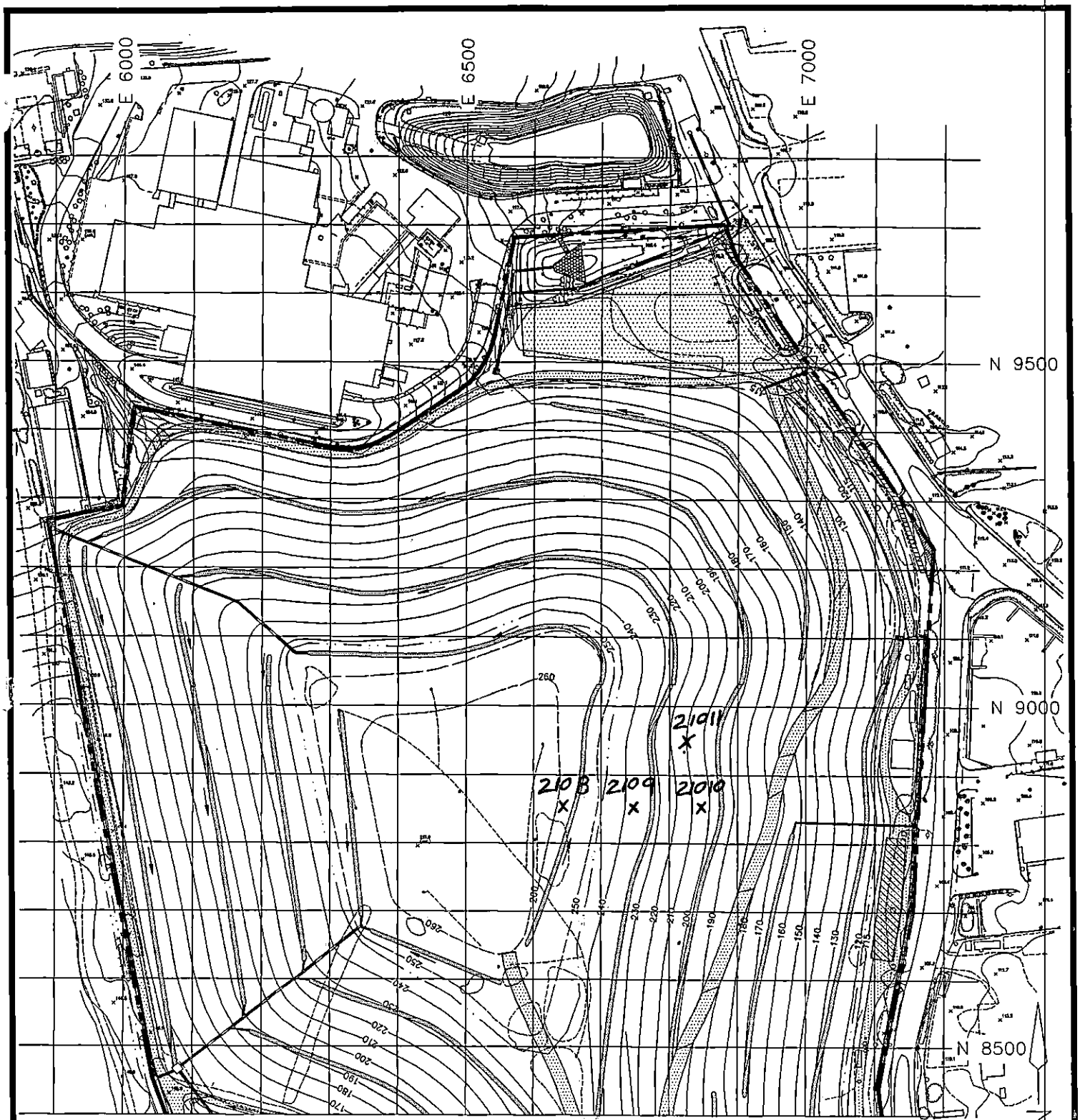
NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
2101	N7450 E 6750 SELECT 2ND SELECT	6/9/2	7.0	130.1	6.6	118.6	111.2	85.5	P			RC
2102	CHANNEL J 1ST SELECT	8/18/1	7.0	130.1	6.7	121.7	114.1	87.7	P			RC
2103	CHANNEL J 2ND SELECT	6/12/2	7.0	130.1	7.0	122.0	114.0	87.6	P			RC
2104	N7550 E 6650 2ND SELECT	6/8.5/2	7.0	130.1	8.3	120.9	111.7	85.8	P			RC
2105	N7250 E 6850 2ND SELECT	6/8.5/2	7.0	130.1	5.4	120.2	114.0	87.6	P			RC
2106	N7180 E 6750 2ND SELECT	6/9/2	7.0	130.1	5.2	120.7	114.7	88.2	P			RC
2107	N7350 E 6850 2ND COMMON	6/9/2	7.0	130.1	6.4	122.5	115.1	88.5	P			RC
~~2108~~	~~N8850 E6650 1ST COMMON~~	~~6/7/1~~	~~8.3~~	~~128.6~~	~~9.1~~	~~125.1~~	~~117.2~~	~~91.3~~	~~P~~			~~RC~~
~~2109~~	~~N8850 E6750 1ST COMMON~~	~~6/7/1~~	~~8.3~~	~~128.6~~	~~4.3~~	~~121.5~~	~~116.5~~	~~90.6~~	~~P~~			~~RC~~
~~2110~~	~~N 8850 E 6850 1ST COMMON~~	~~6/7.5/1~~	~~8.3~~	~~128.6~~	~~6.6~~	~~128.0~~	~~120.1~~	~~93.1~~	~~P~~			~~RC~~
~~2111~~	~~N 8950 E 6850 1ST~~	~~6/7/1~~	~~8.3~~	~~128.6~~	~~7.0~~	~~130.1~~	~~121.3~~	~~92.4~~	~~P~~			~~RC~~



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1



TROXLER TEST LOCATION
COMMON RETEST 10/2/95 R.C.

100 FOOT FIELD TESTING GRID

GeoSyntec Consultants	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 3 day 10 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% COMPACTION: ≥85% SELECT / ≥90% COMMON (CIRCLE ONE) MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C) (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
310 1	N 7450 E 6850 SELECT 2ND SELECT	6/8/2	7.0	130.1	4.5	117.5	112.4	86.1	P			RG
310 2	N 7450 E 6850 1ST SELECT	6/8.5/1	7.0	130.1	4.8	117.6	112.1	86.2	P			RG
310 3	N 7450 E 6950 1ST SELECT	6/9/1	7.0	130.1	5.5	117.1	111.0	85.2	P			RG
310 4	N 7250 E 6560 2ND COMMON	6/9/2	7.0	130.1	5.4	117.4	111.4	85.6	P			RG
~~310 5~~	~~N 8950 E 6950 1ST COMMON~~	~~6/7/2~~	~~8.3~~	~~128.6~~	~~8.7~~	~~124.2~~	~~116.2~~	~~90.1~~	~~P~~			~~RG~~
~~310 6~~	~~N 8950 E 6650 1ST COMMON~~	~~6/7.5/1~~	~~8.3~~	~~128.6~~	~~6.4~~	~~124.1~~	~~116.6~~	~~90.3~~	~~P~~			~~RG~~
~~310 7~~	~~N 8950 E 6950 1ST COMMON~~	~~6/8/1~~	~~8.3~~	~~128.6~~	~~8.1~~	~~123.2~~	~~115.8~~	~~90.2~~	~~P~~			~~RG~~
~~310 8~~	~~N 9050 E 6750 1ST~~	~~6/7/1~~	~~8.3~~	~~128.6~~	~~6.9~~	~~123.7~~	~~116.1~~	~~91.4~~	~~P~~			~~RG~~

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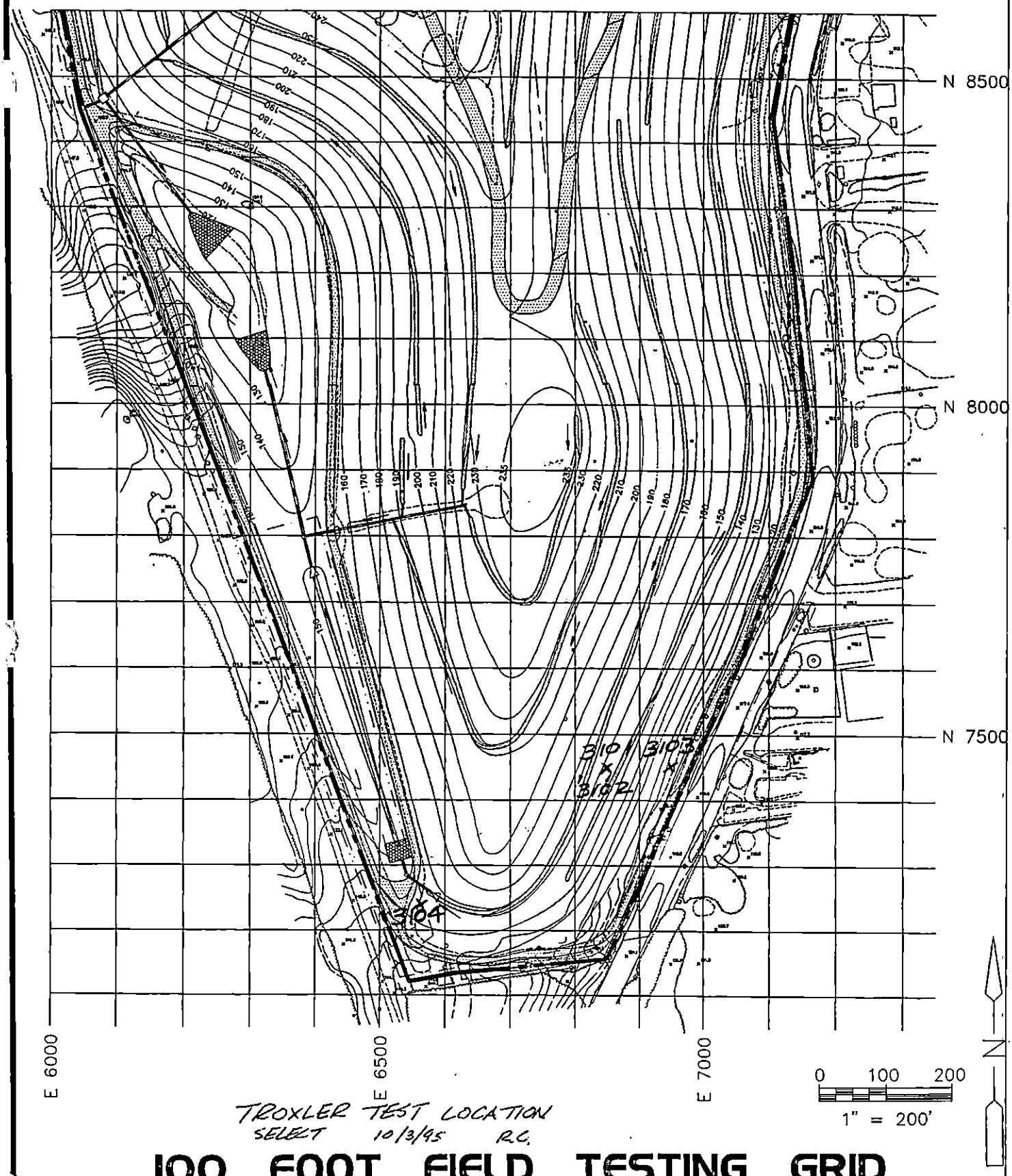
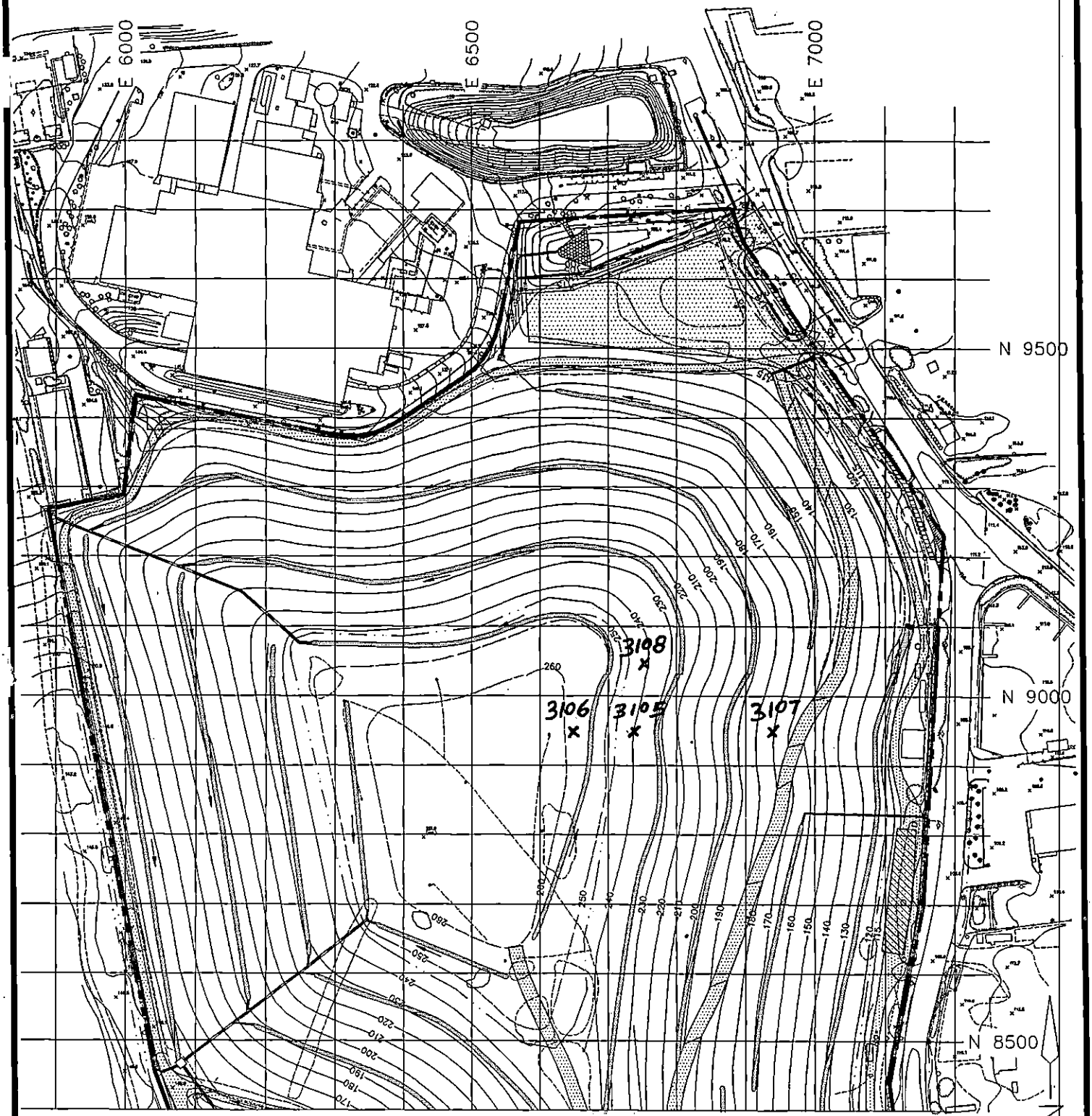


TROXLER TEST LOCATION
SELECT 10/3/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 4 day 10 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

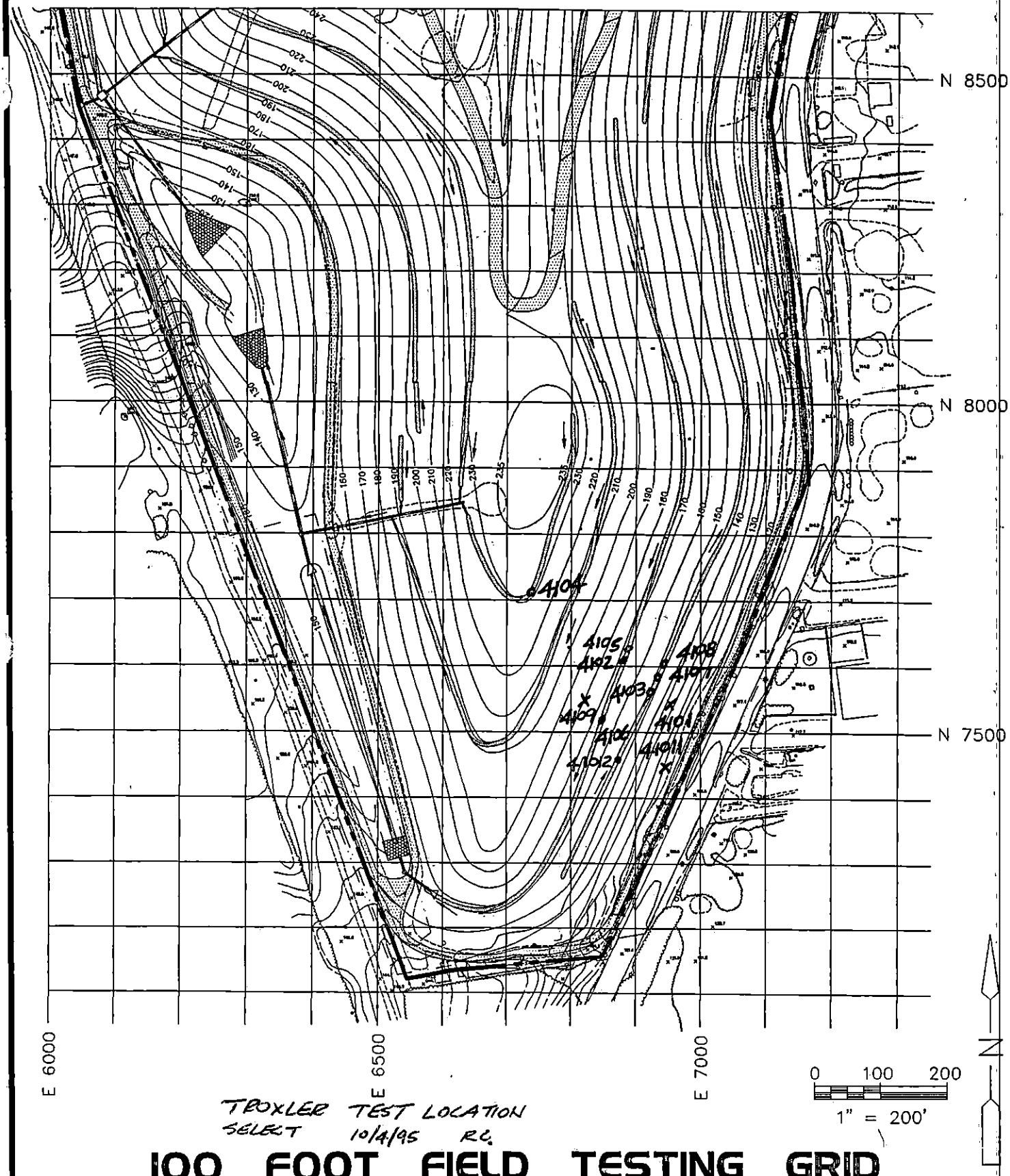
(CIRCLE ONE)

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
410 1	N 7550 E 6950	1ST 6/9/1	7.0	130.1	5.4	115.1	109.1	83.9		F	410-1	RG
4102	CHANNEL H	1ST 8/18/1	7.0	130.1	7.0	118.7	110.9	85.3	P			RG
4103	CHANNEL J	1ST 8/18/1	7.0	130.1	3.1	118.0	114.4	87.9	P			RG
4104	CHANNEL G	2ND 6/12/2	7.0	130.1	6.4	122.7	115.3	88.6	P			RG
4105	CHANNEL H	2ND 6/12/2	7.0	130.1	7.9	119.8	111.0	85.4	P			RG
4106	CHANNEL H	3RD 6/12/3	7.0	130.1	8.3	123.4	113.9	87.5	P			RG
4107	CHANNEL J	2ND 6/12/2	7.0	130.1	8.1	120.9	111.8	85.9	P			RG
4108	CHANNEL J	3RD 6/12/3	7.0	130.1	8.0	121.5	112.5	86.5	P			RG
4109	N 7550 E 6820	1ST 6/9/1	7.0	130.1	6.4	120.4	113.1	87.0	P			RG
4110	N 7550 E 6950	1ST 6/9/1	7.0	130.1	6.8	118.1	110.6	85.0	P			RG
4111	N 7450 E 6950	2ND 6/9/2	7.0	130.1	6.0	118.8	112.1	86.2	P			RG
4112	CHANNEL J	3RD 6/12/3	7.0	130.1	6.7	120.9	113.3	87.1	P			RG



TROXLER TEST LOCATION
SELECT 10/4/95 RC

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 5 day 10 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE) (COMPACTED) —

(CIRCLE ONE)

% COMPACTION: ≥85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
510 1	N7750E6750 SELECT 1ST	6/9/1	7.5	128.6	7.5	118.3	110.0	85.6	P			RC
510 2	CHANNEL Q 1ST	6/18/1	7.5	128.6	7.8	124.8	115.8	90.1	P			RC
510 3	CHANNEL Q 2ND	6/12/2	7.5	128.6	5.8	121.8	115.1	89.5	P			RC
510 4	CHANNEL Q 1ST	6/18/1	7.5	128.6	6.9	123.0	115.0	89.5	P			RC
510 5	N7550E6750 2ND	6/9/2	7.5	128.6	8.6	122.2	112.6	87.5	P			RC
510 6	CHANNEL Q 2ND	6/12/2	7.5	128.6	8.5	122.4	112.8	87.7	P			RC
510 7	CHANNEL Q 1ST	6/18/1	7.5	128.6	7.4	126.4	117.7	91.6	P			RC
510 8	N7550E6550 2ND	6/8.5/2	7.5	128.6	7.9	123.0	114.0	88.6	P			RC
510 9	CHANNEL Q 2ND	6/12/2	7.5	128.6	10.2	123.3	111.8	87.0	P			RC
51010	CHANNEL I 1ST	8/18/1	7.5	128.6	8.7	122.1	112.4	87.4	P			RC
51011	CHANNEL I 2ND	6/12/2	7.5	128.6	8.5	123.1	112.1	86.3	P			RC

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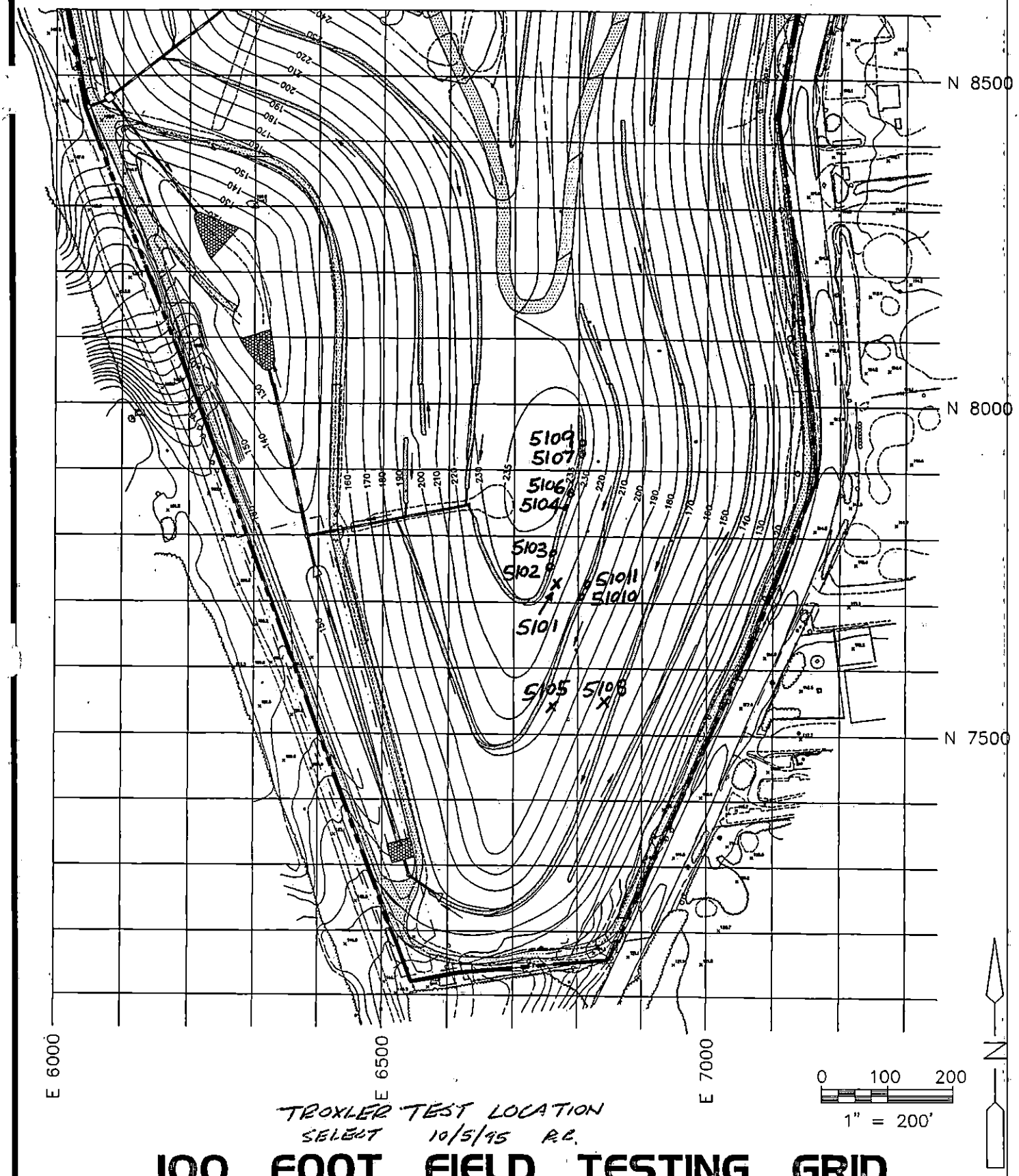


TROXLER TEST LOCATION
SELECT 10/5/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 6 day 10 month ____ year

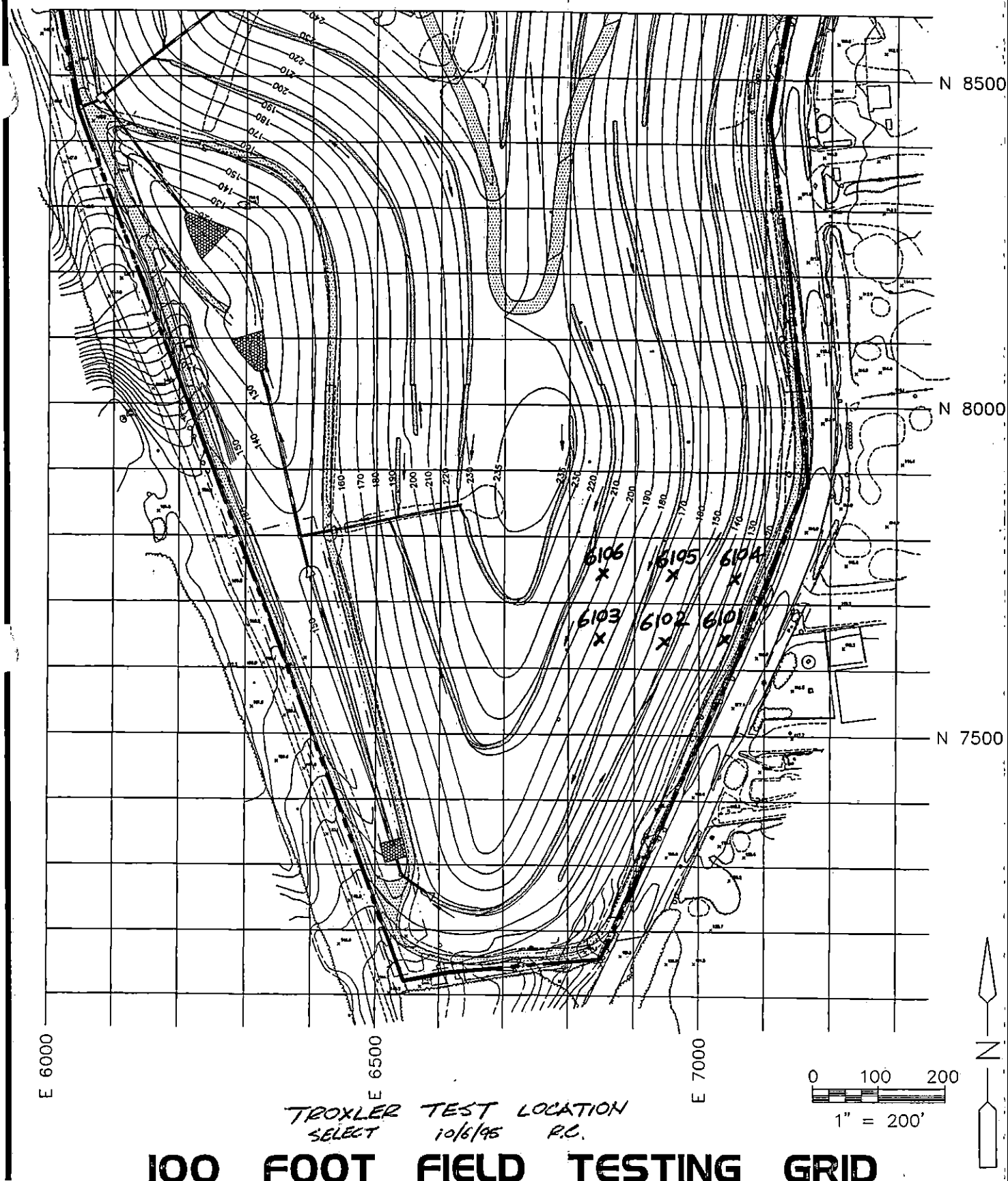
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85 % SELECT MOISTURE RANGE: ± 2 % ASTM D 698: A B C / (ASTM D 1557: A B C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
6101	N7650 E7050 1ST	6/9/1	7.5	128.6	12.6	127.1	112.9	87.8	P			RC
6102	N7650 E6950 1ST	6/9/1	7.5	128.6	12.8	124.3	110.1	85.6	P			RC
6103	N7650 E6850 1ST	6/8.5/1	7.5	128.6	9.8	123.2	113.2	88.1	P			RC
6104	N7750 E7050 1ST	6/8.5/1	7.5	128.6	8.7	124.4	114.5	89.0	P			RC
6105	N7750 E6950 1ST	6/9½/1	7.5	128.6	9.1	124.9	114.2	89.7	P			RC
6106	N7750 E6850 1ST	6/9/1	7.5	128.6	8.9	123.8	113.7	88.7	P			RC



TROXLER TEST LOCATION
SELECT 10/6/95 P.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1 CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 10 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

% COMPACTION: ≥ 95% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION		PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
9101	N7550E6950	2ND	6/9/2	7.5	128.6	6.9	127.3	119.2	92.7	P			RC
9102	N7650E7020	2ND	6/9½/2	7.5	128.6	5.7	121.1	114.5	89.1	P			RC
9103	N7650E6950	2ND	6/9.5/2	7.5	128.6	7.0	119.4	111.5	86.7	P			RC
9104	N7650E6850	2ND	6/9.5/2	7.5	128.6	6.7	121.3	113.6	88.4	P			RC
9105	N7750E7050	2ND	6/9/2	7.5	128.6	5.7	119.1	112.7	87.6	P			RC
9106	CHANNEL I	1ST	8/18/1	7.5	128.6	6.5	118.3	111.1	86.4	P			RC
9107	CHANNEL I	2ND	6/12/2	7.5	128.6	9.8	127.0	115.7	90.0	P			RC
9108	CHANNEL I	1ST	8/18/1	7.5	128.6	11.0	126.9	114.3	88.9	P			RC
9109	CHANNEL	2ND	6/12/2	7.5	128.6	10.3	125.0	113.2	88.1	P			RC
91010	N8050E6820	1ST	6/9.5/1	7.5	128.6	9.4	126.1	115.2	89.6	P			RC
91011	N7850E7050	1ST	6/9/1	7.5	128.6	8.0	123.6	114.5	89.0	P			RC
91012	CHANNEL H	1ST	8/18/1	7.5	128.6	9.4	123.0	112.4	87.4	P			RC
91013	CHANNEL H	2ND	6/12/2	7.5	128.6	9.9	125.2	113.9	88.6	P			RC
91014	CHANNEL H	3RD	6/12/3	7.5	128.6	9.4	123.5	112.9	87.8	P			RC

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 10 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED): —

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
91015	N 8050 E 6820 2ND	6/9/2	7.5	128.6	9.3	126.8	116.0	90.2	P			R.C.
91016	CHANNEL J 1ST	8/18/1	7.5	128.6	9.1	123.9	113.6	88.3	P			R.C.
91017	CHANNEL J 2ND	6/12/2	7.5	128.6	8.2	123.7	114.5	88.9	P			R.C.

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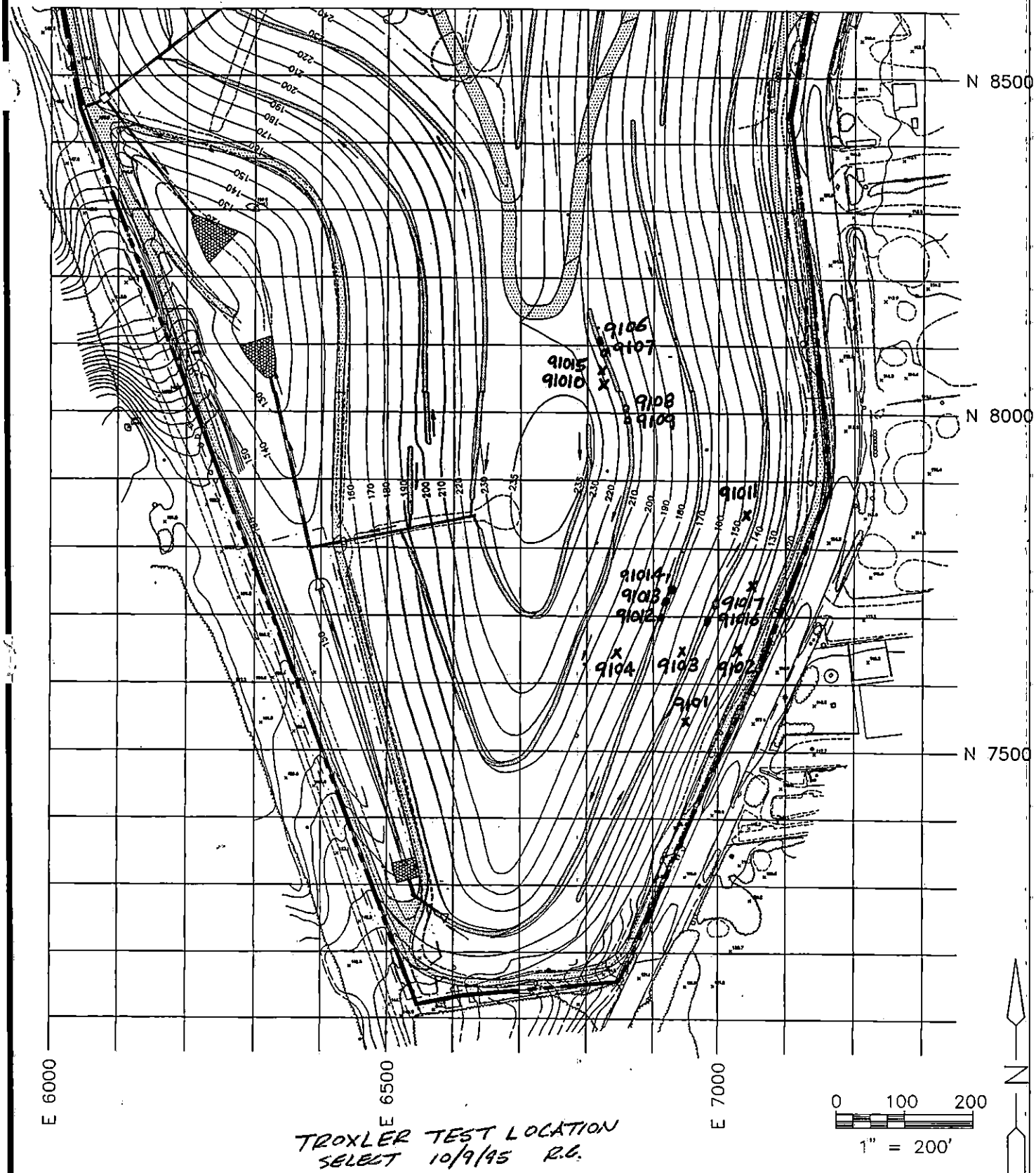

TROXLER TEST LOCATION
SELECT 10/9/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 10 day 10 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT/~~90% COMMON~~ MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
10101	CHANNEL J SELECT 1ST	8/18/1	7.5	128.6	8.2	123.5	114.2	88.8	P			RC
10102	CHANNEL J SELECT 2ND	6/12/2	7.5	128.6	9.8	124.7	113.6	88.4	P			RC
10103	CHANNEL J SELECT 3RD	6/12/3	7.5	128.6	8.0	123.6	114.5	89.0	P			RC
10104	CHANNEL H SELECT 1ST	6/12/1	7.5	128.6	8.6	124.9	115.1	89.5	P			RC
~~10105~~	~~N9050 E6850~~ COMMON 1ST	~~6/7/1~~	~~8.3~~	~~128.6~~	~~6.5~~	~~126.6~~	~~118.9~~	~~92.4~~	~~P~~			~~RC~~
~~10106~~	~~N9050 E6950~~ COMMON 1ST	~~6/7/1~~	~~8.3~~	~~128.6~~	~~6.4~~	~~124.3~~	~~117.6~~	~~90.4~~	~~P~~			~~RC~~
10107	N7850E6750 SELECT 1ST	6/9.5/1	7.5	128.6	7.6	122.6	113.9	88.5	P			RC
10108	N7850E6950 SELECT 1ST	6/9¼/1	7.5	128.6	7.4	123.6	115.1	89.5	P			RC
10109	N7950E6850 COMMON 1ST	6/8.5/1	7.5	128.6	8.0	129.4	115.2	89.5	P			RC
~~10110~~	~~N9150E6850~~ COMMON 1ST	~~6/8/1~~	~~8.3~~	~~128.6~~	~~7.1~~	~~125.8~~	~~116.9~~	~~90.5~~	~~P~~			~~RC~~
~~10111~~	~~N9150E6950~~ COMMON 1ST	~~6/7/1~~	~~8.3~~	~~128.6~~	~~6.6~~	~~128.0~~	~~119.0~~	~~93.0~~	~~P~~			~~RC~~
~~10112~~	~~N9250E6850~~ COMMON 1ST	~~6/7/1~~	~~8.3~~	~~128.6~~	~~7.1~~	~~124.1~~	~~117.1~~	~~90.1~~	~~P~~			~~RC~~
~~10113~~	~~N9250E6950~~ SELECT 1ST	~~6/7/1~~	~~8.3~~	~~128.6~~	~~6.2~~	~~124.4~~	~~116.7~~	~~90.3~~	~~P~~			~~RC~~
10101R	CHANNEL H SELECT 2ND	6/12/2	7.5	128.6	8.2	124.1	114.9	89.1	P			RC

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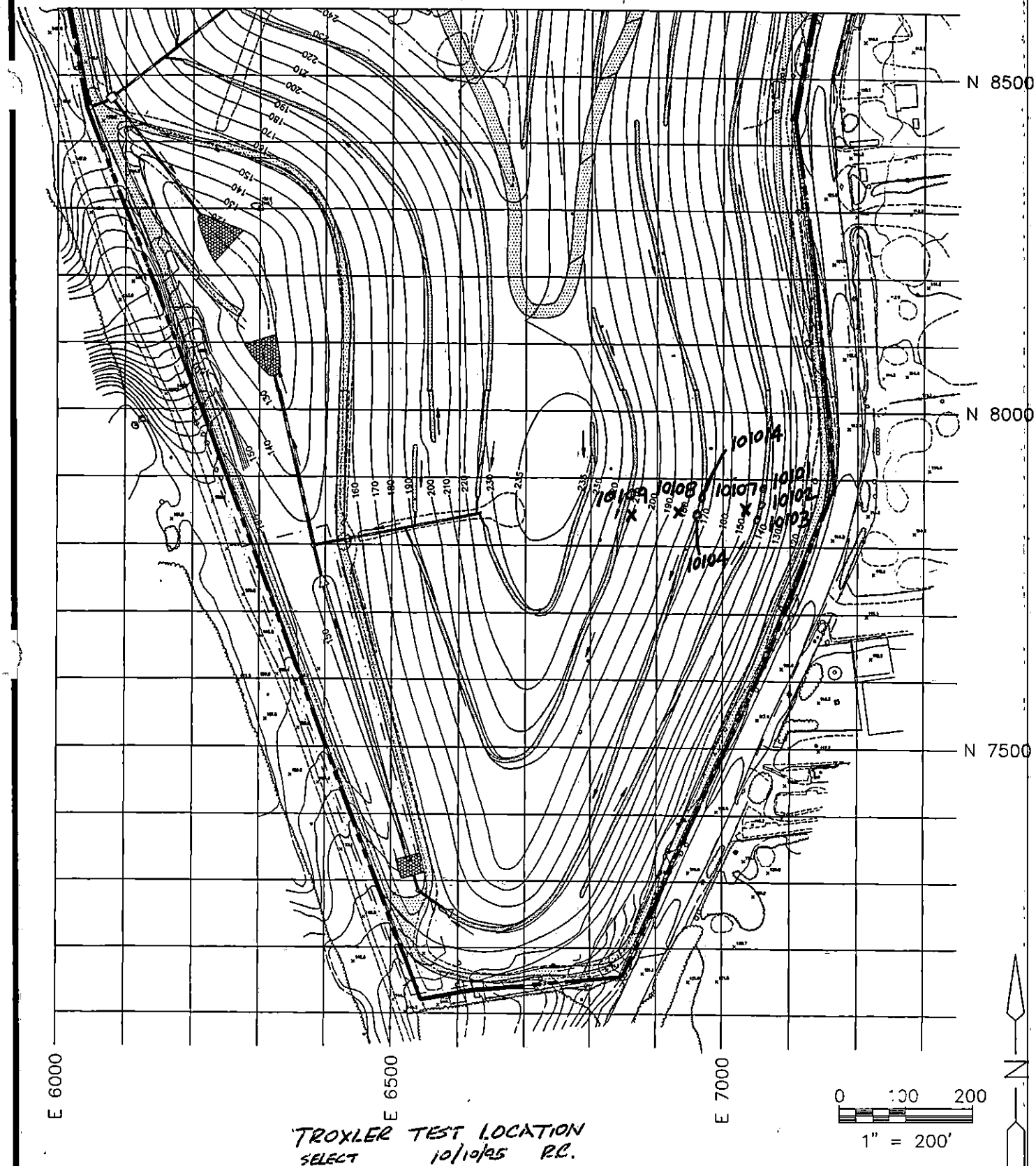
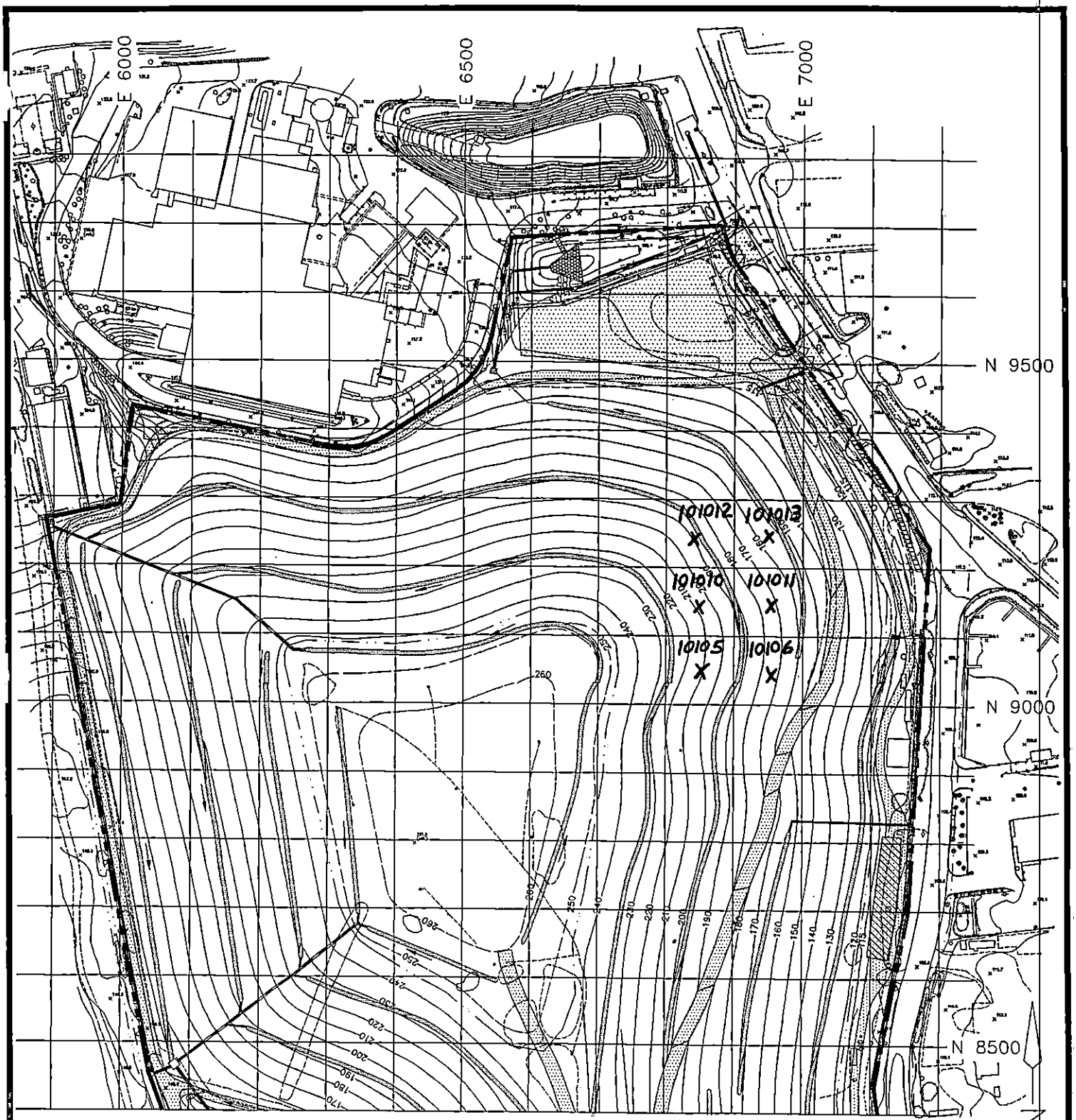


TROXLER TEST LOCATION
SELECT 10/10/25 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 10 month 95 year

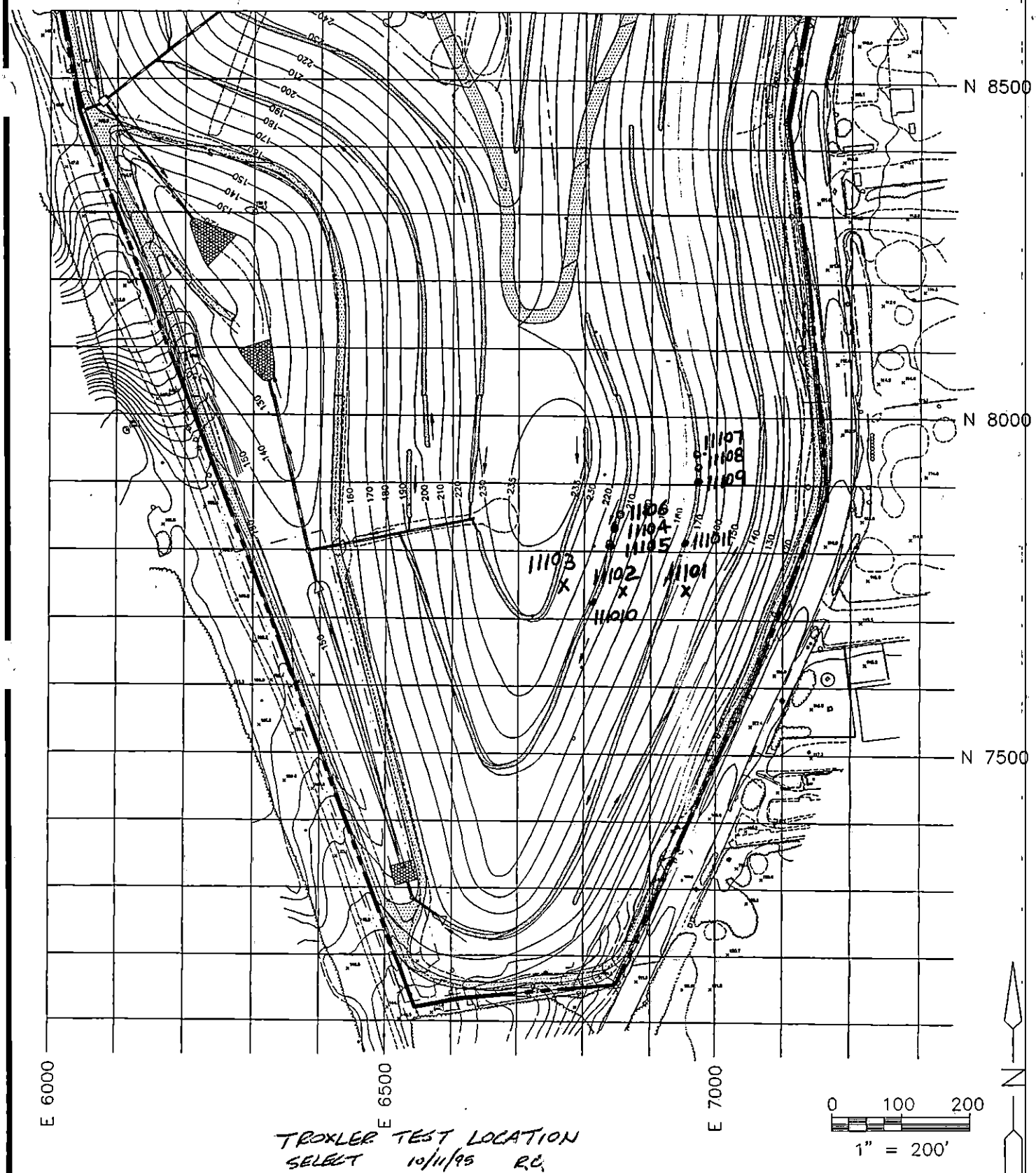
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)) 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
11.10.1	N7750 E 6950 2ND	6/9.5/2	7.5	128.6	7.9	123.5	114.4	88.9	P			RC
11.10.2	N7750 E 6850 2ND	6/9/2	7.5	128.6	9.1	122.9	112.7	87.6	P			RC
11.10.3	N7750 E 6750 2ND	6/9½/2	7.5	128.6	8.8	120.4	110.7	86.1	P			RC
11.10.4	CHANNEL I 1ST	8/18/1	7.5	128.6	7.1	123.7	115.5	89.8	P			RC
11.10.5	CHANNEL I 2ND	6/12/2	7.5	128.6	8.9	122.8	112.8	87.7	P			RC
11.10.6	CHANNEL I 3RD	6/12/3	7.5	128.6	9.2	125.8	115.2	89.6	P			RC
11.10.7	CHANNEL H 1ST	8/18/1	7.5	128.6	8.5	124.6	114.8	89.3	P			RC
11.10.8	CHANNEL H 2ND	6/12/2	7.5	128.6	9.4	120.3	110.0	85.5	P			RC
11.10.9	CHANNEL H 3RD	6/12/3	7.5	128.6	6.2	117.9	111.0	86.3	P			RC
11.10.10	CHANNEL I 3RD	6/12/3	7.5	128.6	7.8	124.2	115.2	89.6	P			RC
11.10.11	CHANNEL H 3RD	6/12/3	7.5	128.6	7.3	122.4	114.1	88.7	P			RC



TROXLER TEST LOCATION
SELECT 10/11/95 RC

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 10 month 95 year

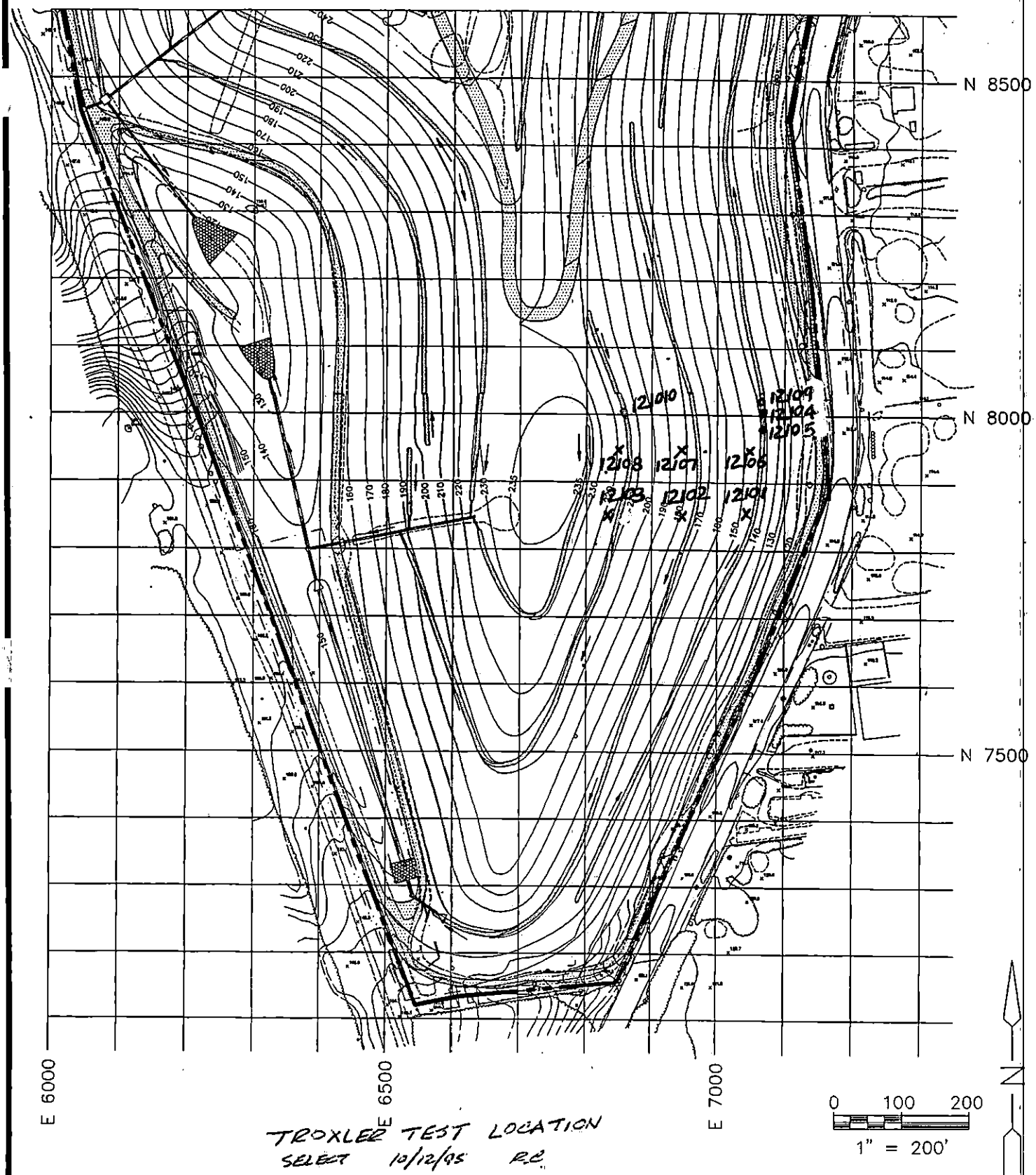
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
12101	N 7850 7050 2ND	6/9/2	7.5	128.6	5.7	118.3	111.9	87.0	P			RC
12102	N 7850 6950 2ND	6/9½/2	7.5	128.6	8.4	122.4	112.9	87.8	P			RC
12103	N 7850 6820 2ND	6/9½/2	7.5	128.6	7.8	119.6	110.9	86.3	P			RC
12104	CHANNEL J 1ST	8/18/1	7.5	128.6	9.2	125.4	114.8	89.3	P			RC
12105	CHANNEL J 2ND	6/12/2	7.5	128.6	8.6	127.6	117.5	91.4	P			RC
12106	N 7950 E 7050 1ST	6/8½/1	7.5	128.6	8.9	119.7	109.9	85.5	P			RC
12107	N 7950 E 6950 1ST	6/9/1	7.5	128.6	8.2	122.2	112.9	87.8	P			RC
12108	N 7950 E 6850 1ST	6/9/1	7.5	128.6	7.4	119.3	111.1	86.4	P			RC
12109	CHANNEL J 3RD	6/12/1	7.5	128.6	8.9	119.3	109.6	85.2	P			RC
121010	CHANNEL I 3RD	6/12/1	7.5	128.6	7.2	120.3	112.2	87.2	P			RC



TROXLER TEST LOCATION
SELECT 10/12/95 RC

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 13 day 10 month 95 year

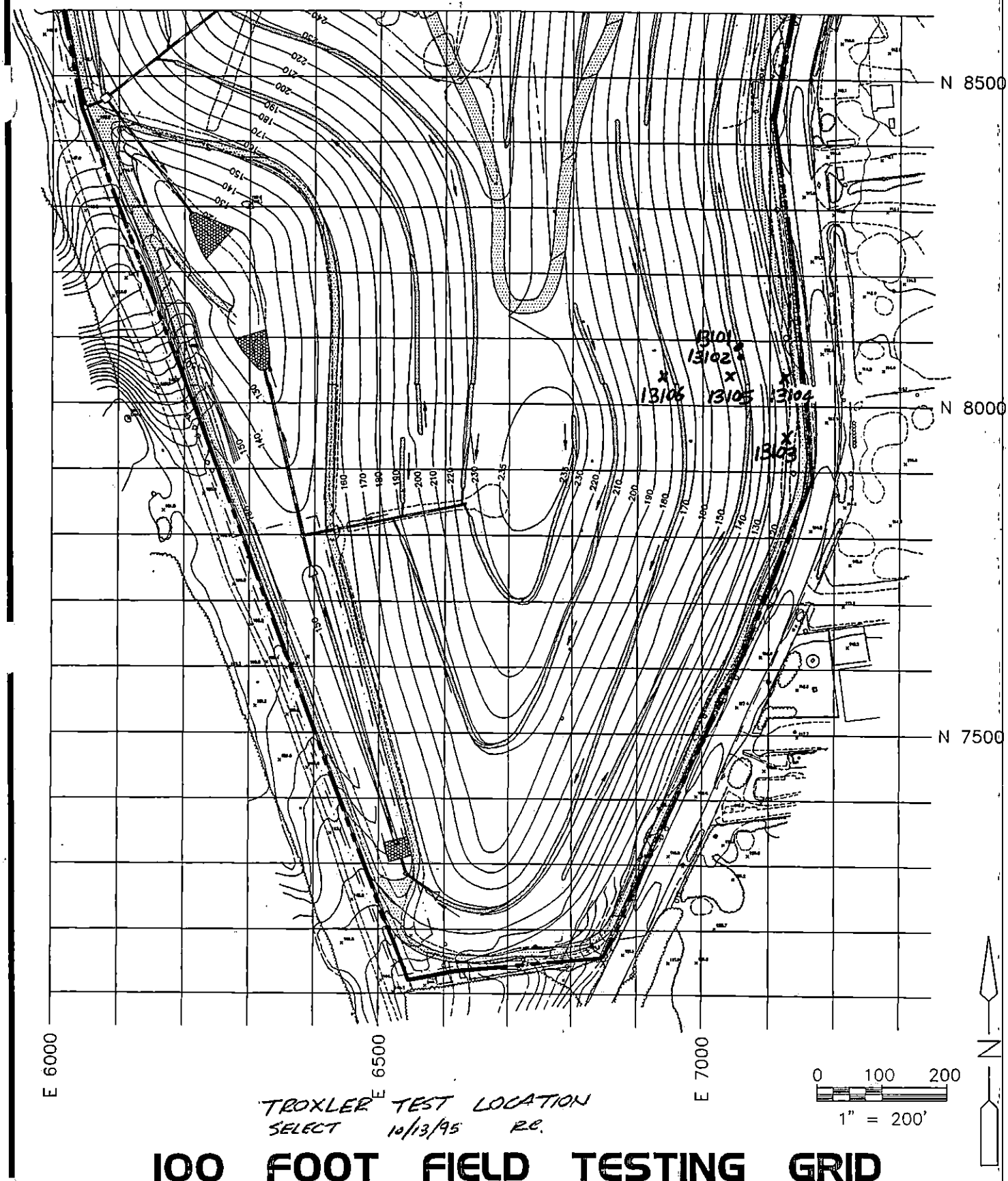
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED)): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
13101	CHANNEL J 1ST	8/18/1	7.5	128.6	6.9	121.1	113.3	88.1	P			RC
13102	CHANNEL J 2ND	6/12/2	7.5	128.6	7.6	128.5	119.4	92.8	P			RC
13103	N 7950 E 7120 1ST	6/9/1	7.5	128.6	9.3	119.6	109.5	85.1	P			RC
13104	N 8050 E 7120 1ST	6/9½/1	7.5	128.6	9.3	120.7	110.5	85.9	P			RC
13105	N 8050 E 7020 1ST	6/9/1	7.5	128.6	9.0	128.3	117.8	91.6	P			RC
13106	N 8050 E 6920 1ST	6/8½/1	7.5	128.6	5.5	121.2	114.9	89.3	P			RC



TROXLER TEST LOCATION
SELECT 10/13/95 RC.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 14 day 10 month 95 year

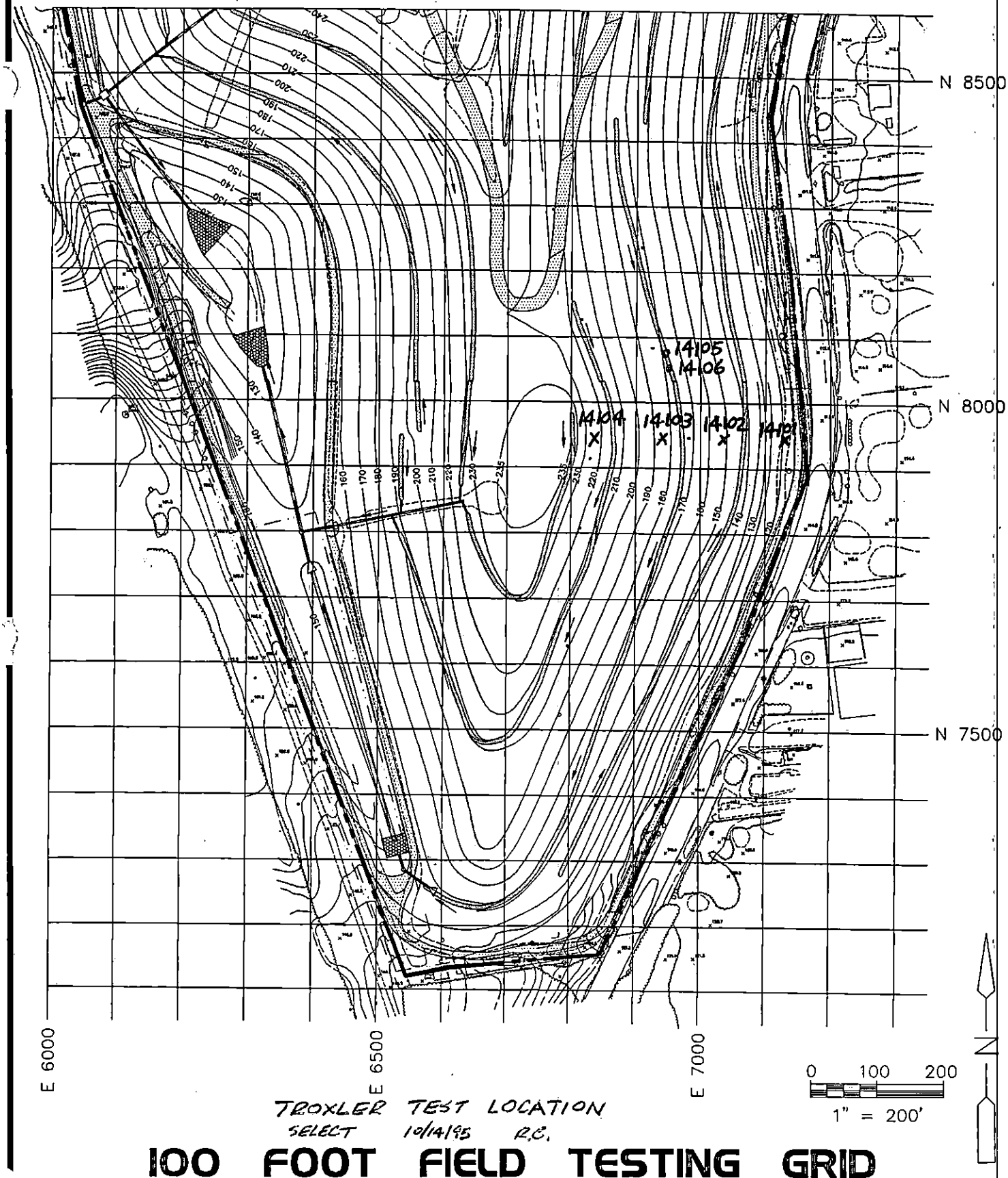
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: 285% SELECT ALL MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
14101	N 7950 E 7120 1ST	6/8½/2	7.5	128.6	10.6	125.9	113.8	88.5	P			RC
14102	N 7950 E 7040 2ND	6/9/2	7.5	128.6	9.0	124.7	114.4	89.0	P			RC
14103	N 7950 E 6950 2ND	6/9/2	7.5	128.6	7.7	124.6	115.7	90.0	P			RC
14104	N 7950 E 6830 2ND	6/9½/2	7.5	128.6	8.4	124.9	115.2	89.6	P			RC
14105	CHANNEL H 1ST	8/18/1	7.5	128.6	10.3	130.5	118.3	92.0	P			RC
14106	CHANNEL H 2ND	6/12/2	7.5	128.6	9.1	126.5	115.9	90.1	P			RC



TROXLER TEST LOCATION
SELECT 10/14/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 10 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
16101	CHANNEL I 3RD	6/12/3	7.5	128.6	9.2	124.2	113.8	88.5	P			RC
16102	CHANNEL H 3RD	6/12/3	7.5	128.6	7.8	124.0	115.1	89.5	P			RC
16103	CHANNEL J 3RD	6/12/3	7.5	128.6	8.7	123.9	114.1	88.7	P			RC

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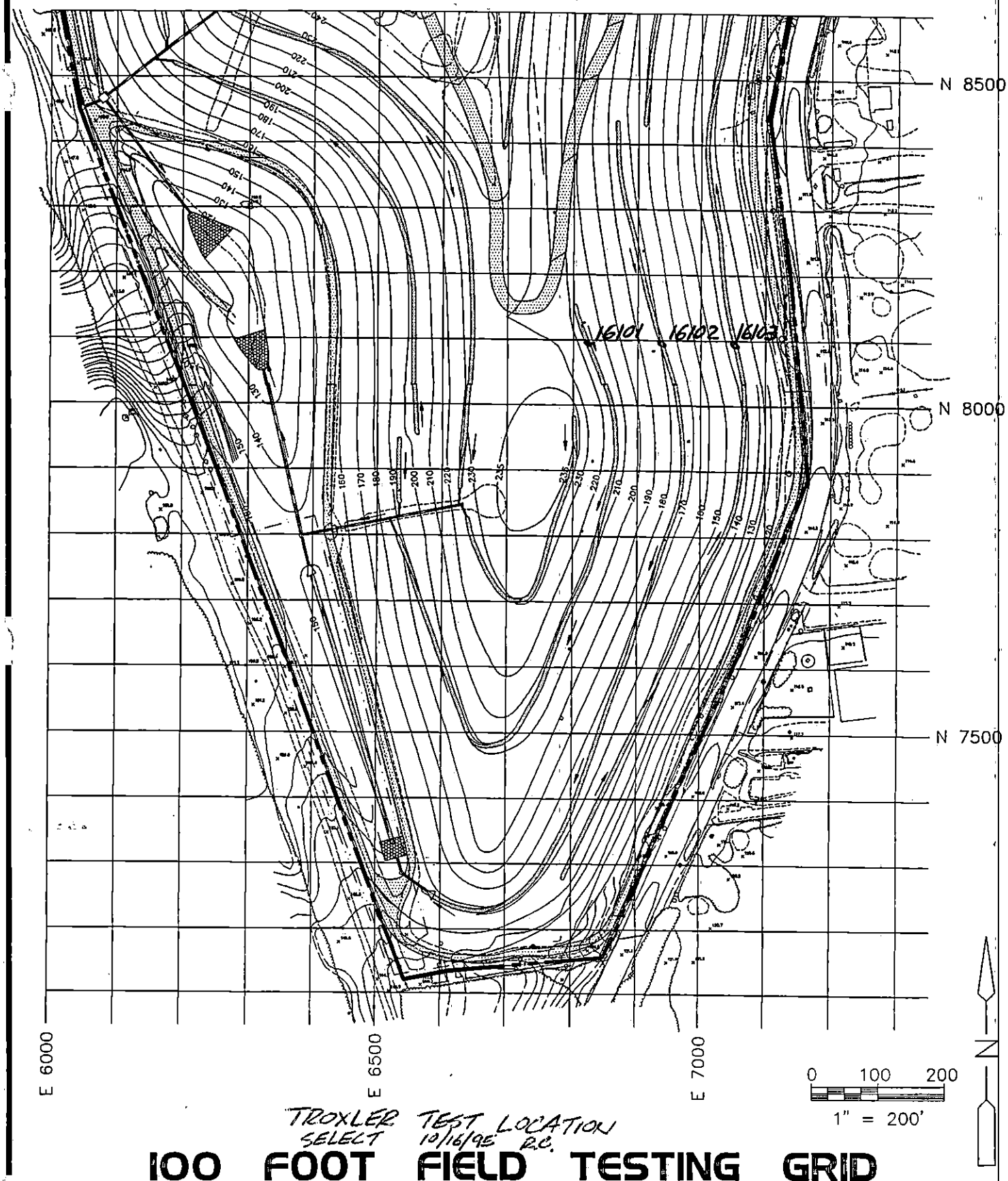


TROXLER TEST LOCATION
SELECT 10/16/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 17 day 10 month 95 year

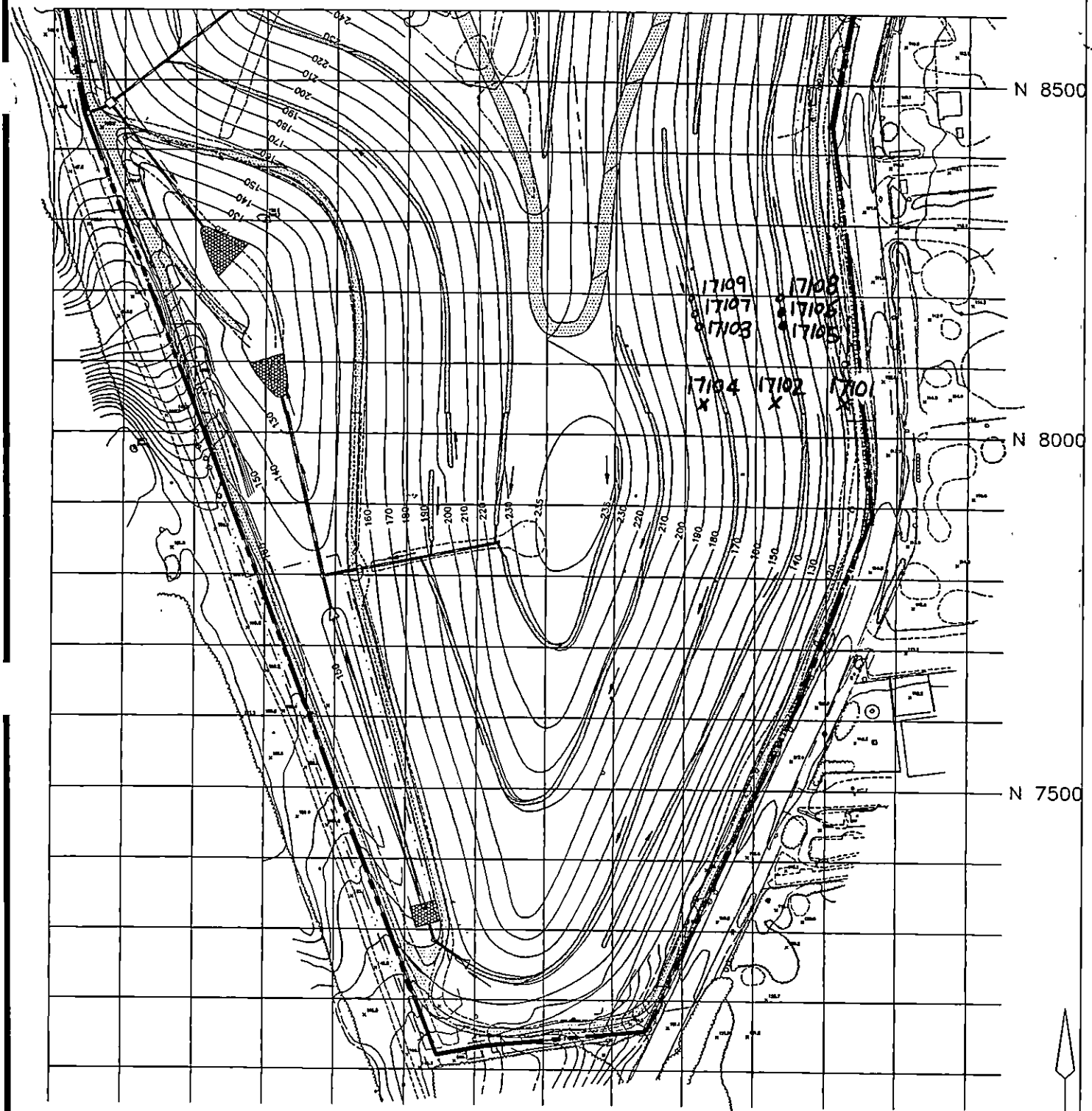
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
17101	N 8050 E 7120 2ND	6/8½/2	7.5	128.6	7.9	124.1	115.0	89.4	P			RC
17102	N 8050 E 7030 2ND	6/8¾/2	7.5	128.6	7.7	121.7	113.0	87.8	P			RC
17103	CHANNEL H 1ST	8/18/1	7.5	128.6	6.7	118.7	111.3	86.5	P			RC
17104	N 8050 E 6930 2ND	6/9/2	7.5	128.6	8.4	119.6	110.4	85.9	P			RC
17105	CHANNEL J 1ST	8/18/1	7.5	128.6	9.1	125.2	114.8	89.3	P			RC
17106	CHANNEL J 2ND	6/12/2	7.5	128.6	9.3	123.4	112.9	87.8	P			RC
17107	CHANNEL H 2ND	6/12/2	7.5	128.6	10.6	123.6	113.0	87.9	P			RC
17108	CHANNEL J 3RD	6/12/3	7.5	128.6	10.1	120.6	109.6	85.2	P			RC
17109	CHANNEL H 3RD	6/12/3	7.5	128.6	8.9	120.9	111.1	86.4	P			RC



TROXLER TEST LOCATION
SELECT 10/17/95 RC

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 10 month 95 year

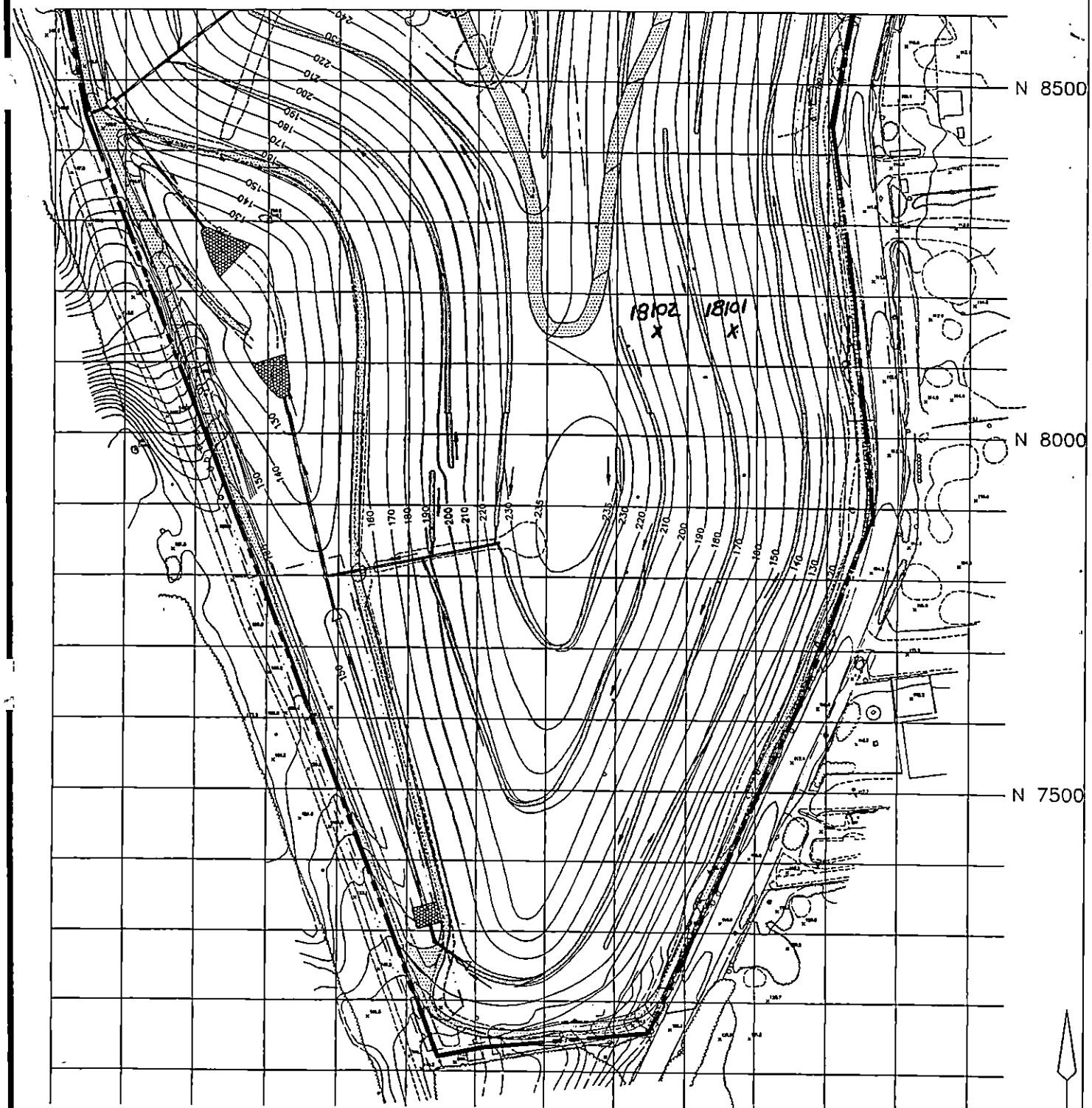
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED)) 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH / ELEV / LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
18101	N8150 E6950 1ST	6/8¾/1	7.5	128.6	7.9	123.5	114.5	89.0	P			RG
18102	N8150 E6850 1ST	6/9/1	7.5	128.6	7.5	125.3	116.6	90.6	P			RG



TROXLER TEST LOCATION
SELECT 10/18/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day 10 month 95 year

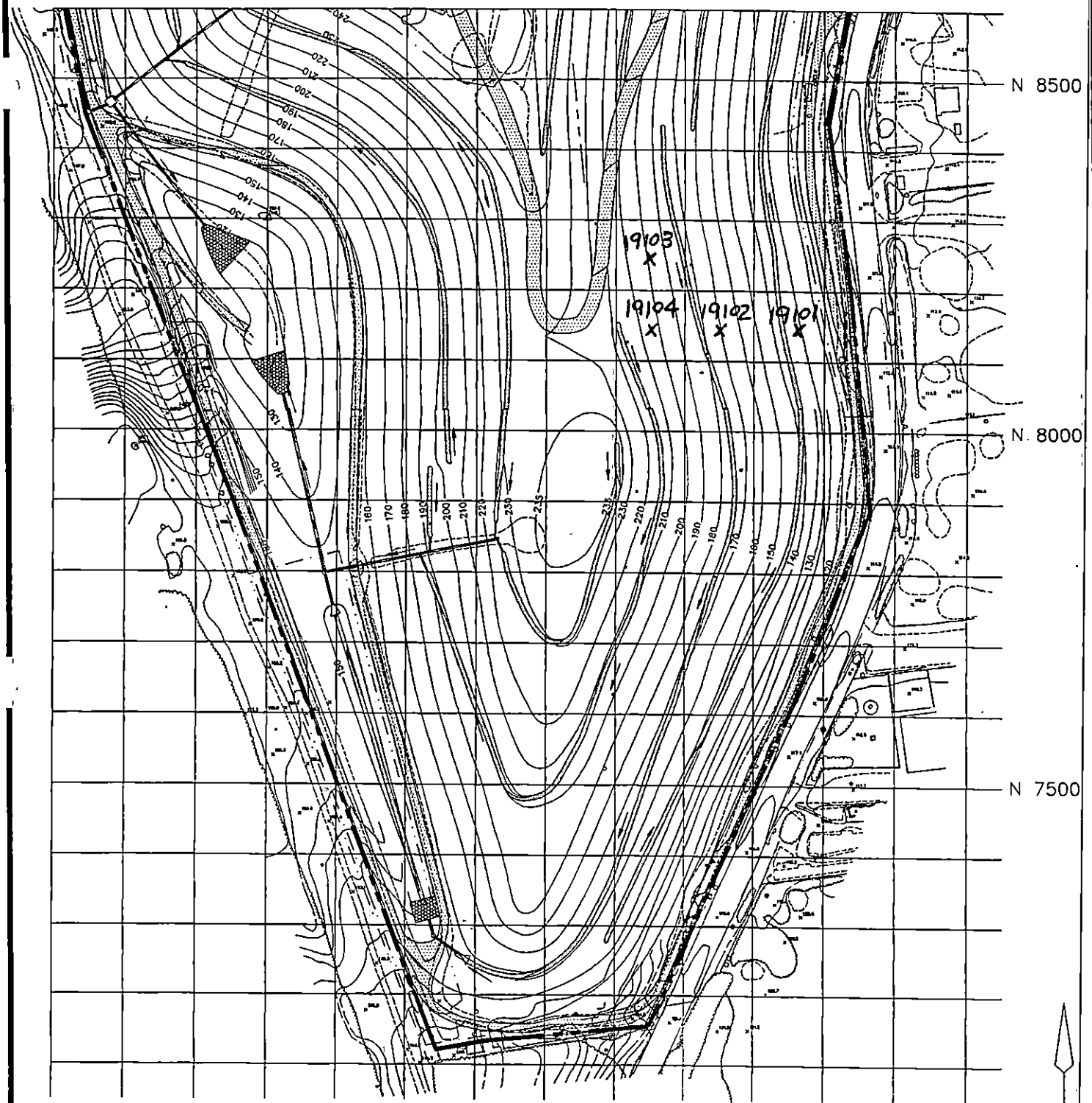
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1910 1	N 8150 E 7050 1ST	6/8½/1	7.5	128.6	6.3	116.7	109.7	85.3	P			RG
1910 2	N 8150 E 6950 2ND	6/8/2	7.5	128.6	8.4	123.1	113.6	88.4	P			RG
1910 3	N 8250 E 6850 1ST	6/9/1	7.5	128.6	7.8	123.2	114.4	88.9	P			RG
1910 4	N 8150 E 6850 2ND	6/9/2	7.5	128.6	3.7	116.4	112.3	87.3	P			RG



TROXLER TEST LOCATION
SELECT 10/14/95 RC

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 20 day 10 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): —

(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
20101	N8150E 7050 2ND	6/8¾/2	7.5	128.6	8.2	123.6	114.2	88.8	P			RC

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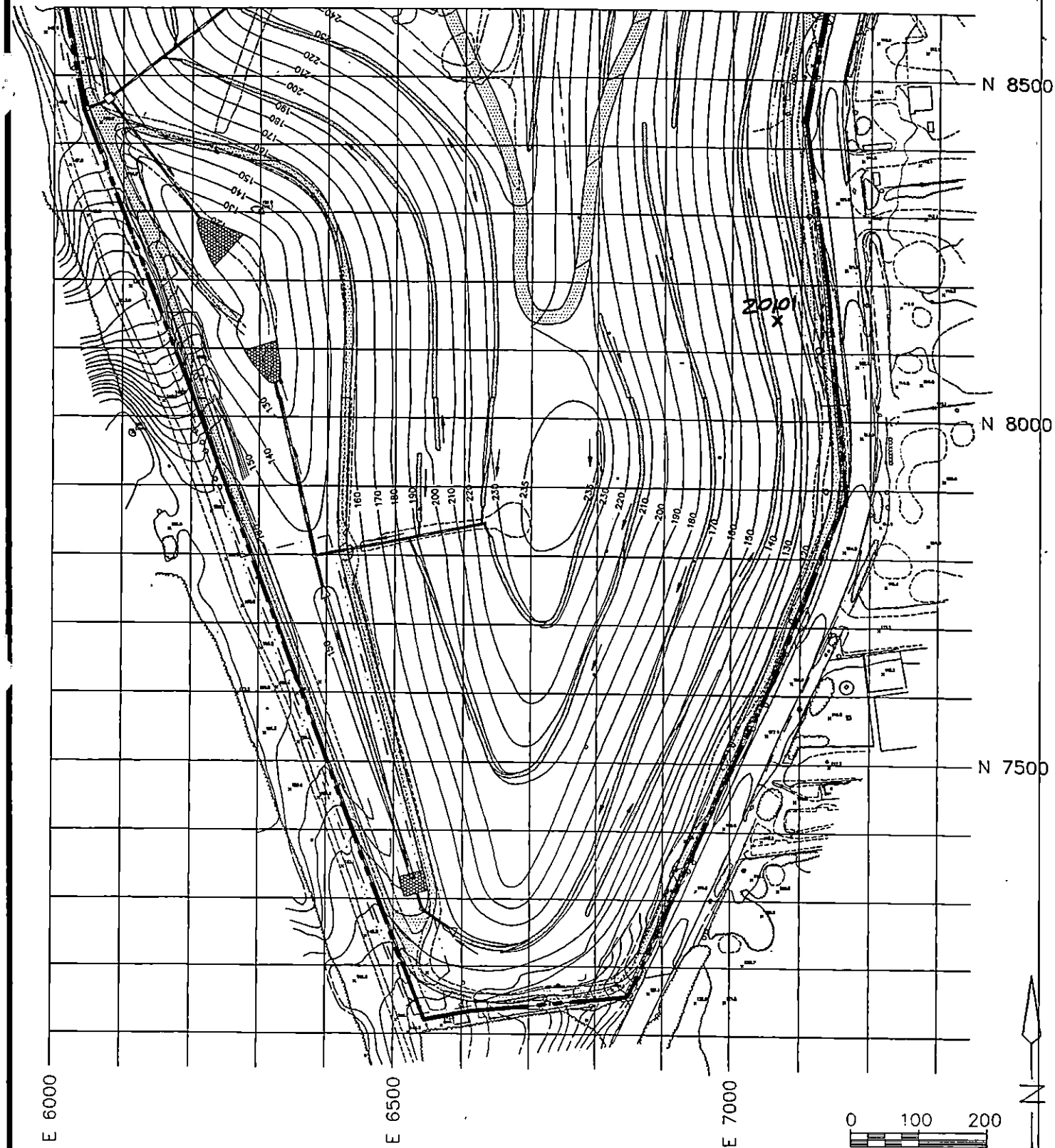

TROXLER TEST LOCATION
SELECT 10/20/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day 10 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 95% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C /(ASTM D 1557) A B(C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
Z3101	N8250 E6850 2ND	6/8/2	7.5	128.6	7.8	123.2	114.3	88.9	P			RG
Z3102	CHANNEL B 1ST	8/18/1	7.5	128.6	11.6	126.7	113.5	88.3	P			RG

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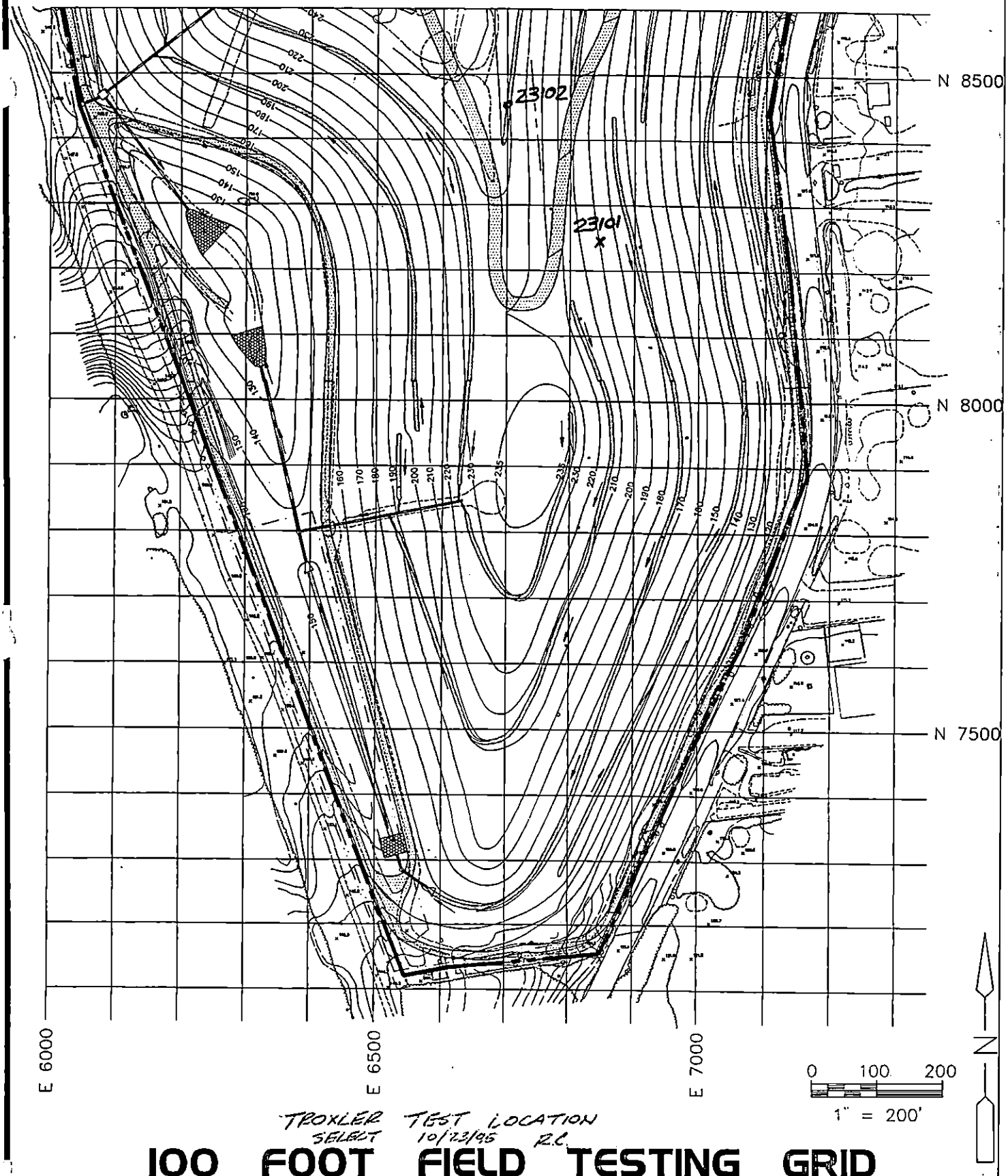


TROXLER TEST LOCATION
SELECT 10/23/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day 10 month 95 year

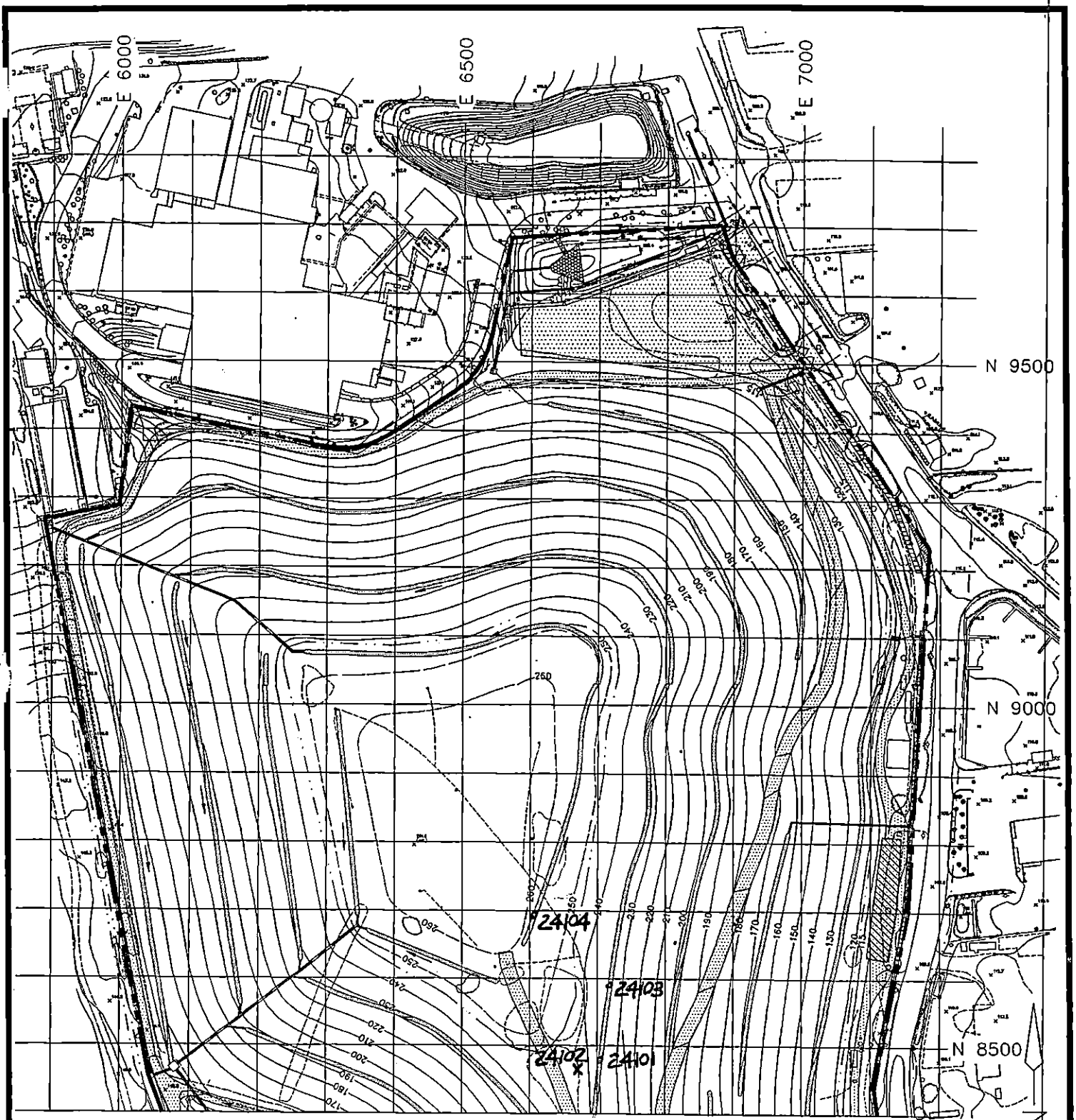
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 95% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
24101	CHANNEL B 2ND	6/12/2	7.6	130.1	10.4	130.0	117.8	90.6	P			RG
24102	N 8470 E 6670 1ST	6/10/1	7.6	130.1	8.7	129.5	119.1	91.5	P			RG
24103	CHANNEL B 1ST	8/18/1	7.6	130.1	9.7	131.8	120.2	92.4	P			RG
24104	CHANNEL N 1ST	8/18/1	7.6	130.1	8.7	133.3	122.6	94.2	P			RG



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day 10 month 95 year

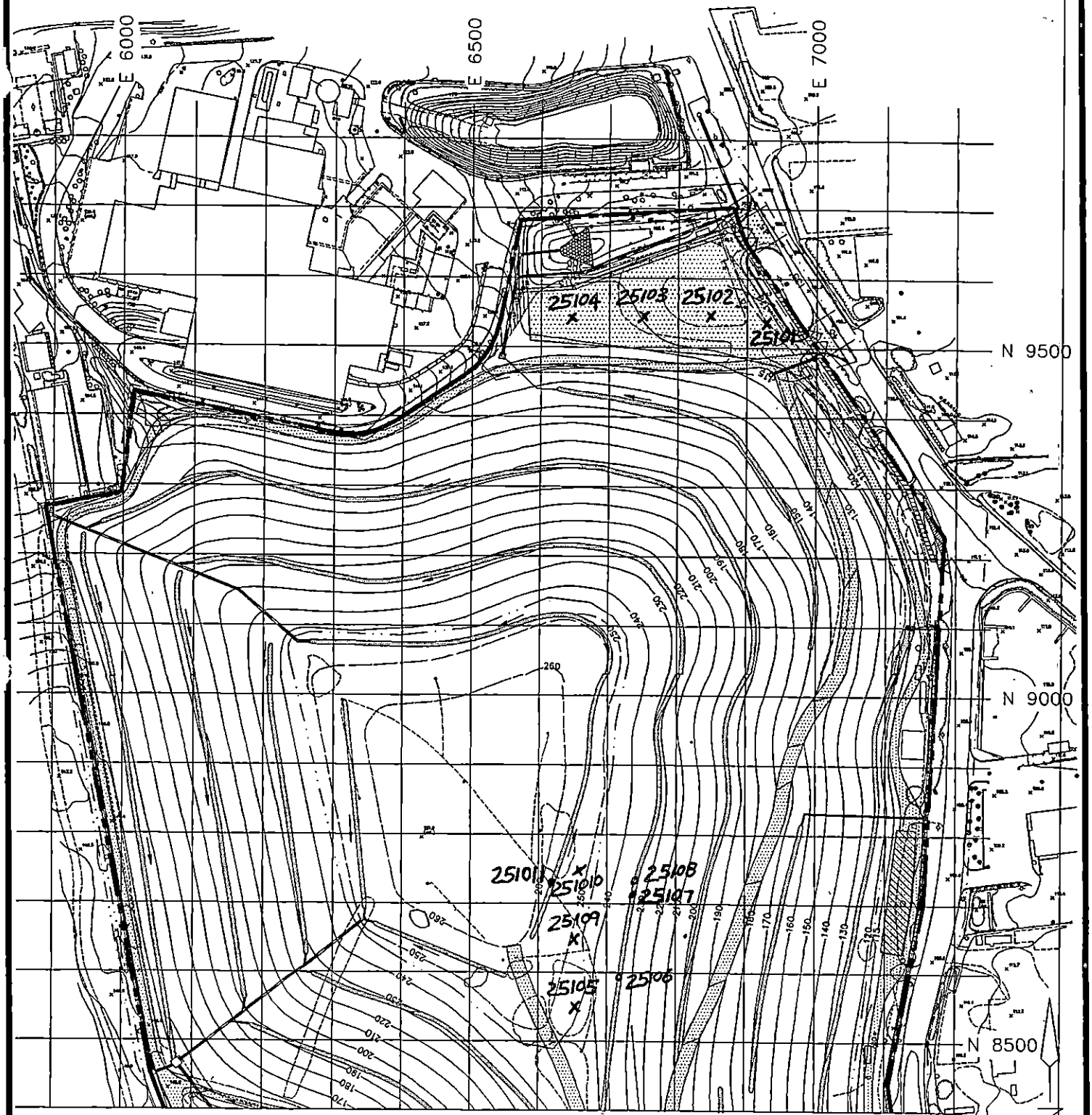
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE (CIRCLE ONE): (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C) (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
25101	N 9520 E 6920 1ST	10/12/1	7.6	130.1	10.1	134.6	122.3	94.0	P			RC
25102	N 9550 E 6850 1ST	12/12/1	7.6	130.1	7.5	129.4	115.7	88.9	P			RC
25103	N 9550 E 6750 1ST	10/12/1	7.6	130.1	9.3	134.8	123.4	94.8	P			RC
25104	N 9550 E 6650 1ST	10/12/1	7.6	130.1	9.0	134.9	123.8	95.1	P			RC
25105	N 8550 E 6650 1ST	6/9/1	7.6	130.1	7.6	123.8	115.1	88.4	P			RC
25106	CHANNEL B 2ND	6/12/2	7.6	130.1	10.2	128.3	116.5	89.5	P			RC
25107	CHANNEL B 1ST	8/10/1	7.6	130.1	11.3	125.8	113.1	86.9	P			RC
25108	CHANNEL B 2ND	6/12/2	7.6	130.1	7.6	120.3	111.8	85.9	P			RC
25109	N 8650 E 6650 1ST	6/9/1	7.6	130.1	9.0	127.9	117.4	90.3	P			RC
251010	N 8750 E 6650 1ST	6/9/1	7.6	130.1	10.7	130.4	117.8	90.5	P			RC
251011	CHANNEL N 2ND	6/12/2	7.6	130.1	9.7	128.7	117.4	90.2	P			RC



TROXLER TEST LOCATION
SELECT 10/25/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day 10 month 95 year

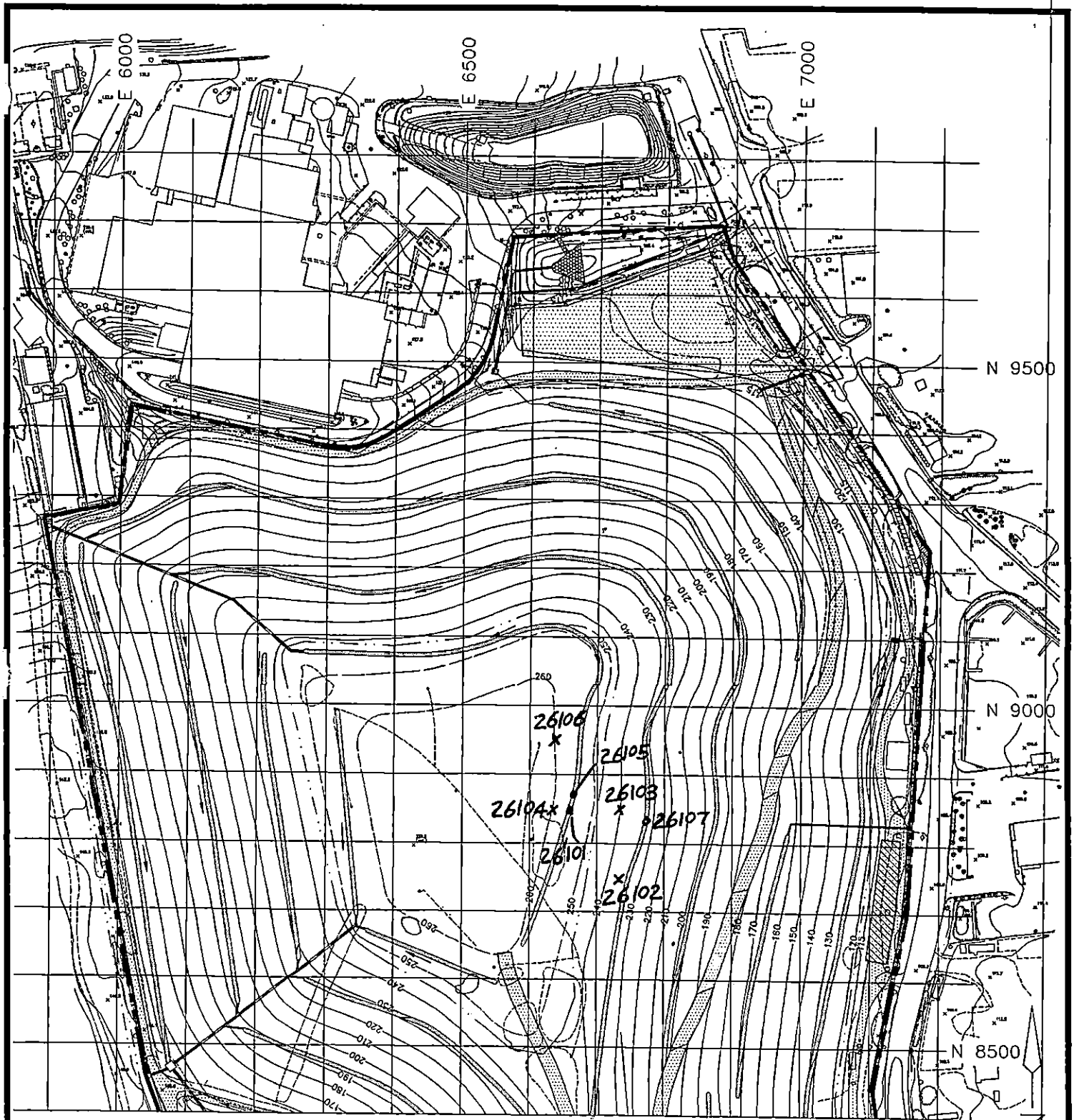
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
26101	CHANNEL N 1ST	8/18/1	7.6	130.1	10.4	126.8	114.9	89.3	P			RC
26102	N 8750 E 6720 1ST	6/9½/1	7.6	130.1	9.9	127.4	115.9	89.1	P			RC
26103	N 8850 E 6720 1ST	6/9/1	7.6	130.1	8.7	127.4	117.2	90.1	P			RC
26104	N 8850 E 6630 1ST	6/9/1	7.6	130.1	9.3	127.6	116.8	89.8	P			RC
26105	CHANNEL N 2ND	6/12/2	7.6	130.1	9.0	125.9	115.5	88.8	P			RC
26106	N 8950 E 6630 1ST	6/8½/1	7.6	130.1	10.3	131.4	119.1	91.5	P			RC
26107	CHANNEL B 1ST	8/18/1	7.6	130.1	10.4	132.1	119.7	92.0	P			RC



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 10 month 95 year

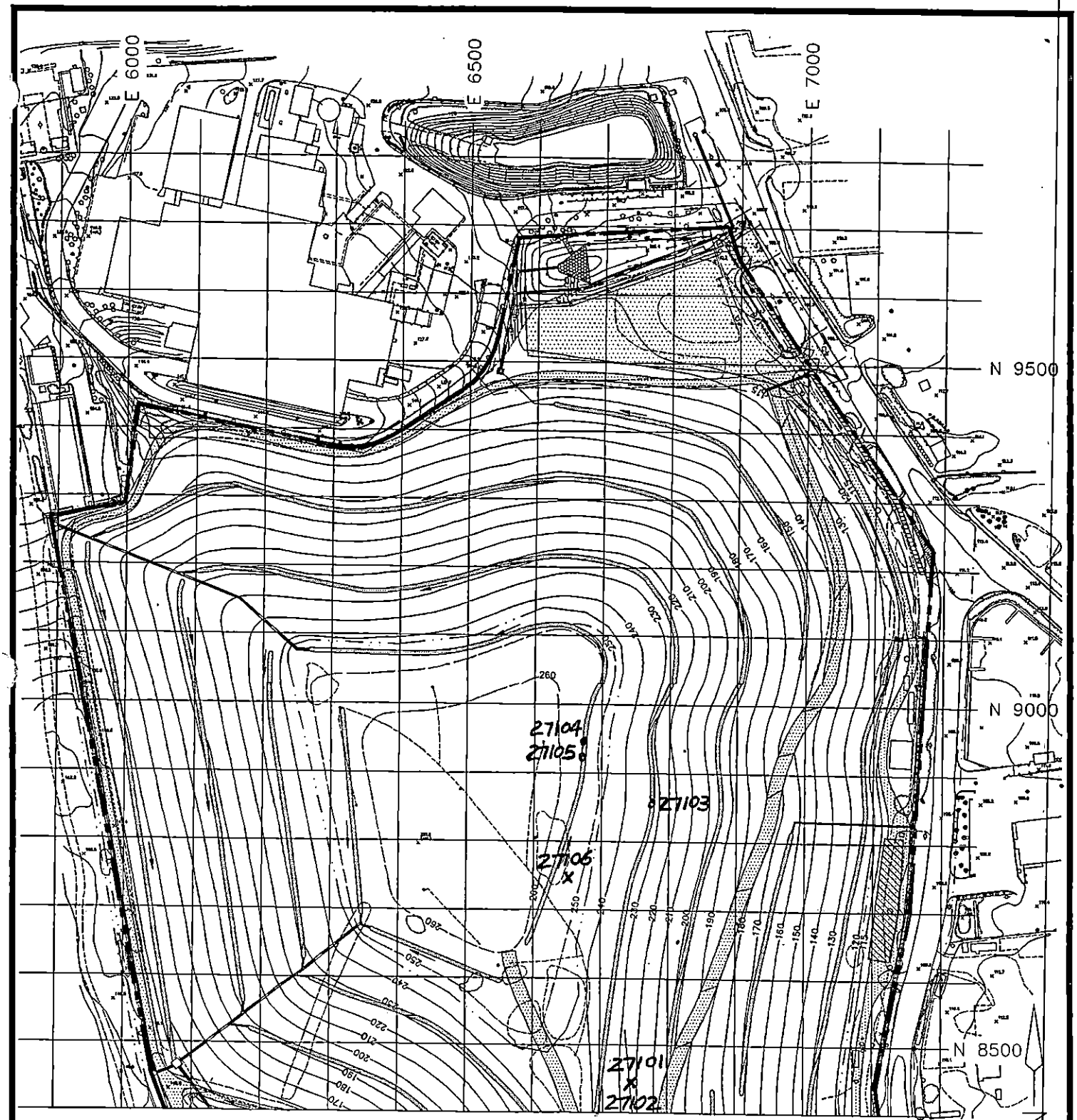
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
27101	N 8450 E 6750 1ST	6/9/1	7.6	130.1	8.6	125.6	115.7	89.0	P			RC
27102	N 8450 E 6750 2ND	6/9½/2	7.6	130.1	9.1	126.0	115.4	88.7	P			RC
27103	CHANNEL B 2ND	6/12/2	7.6	130.1	8.9	126.3	115.6	88.9	P			RC
27104	CHANNEL N 1ST	8/18/1	7.6	130.1	9.8	127.0	115.7	88.9	P			RC
27105	CHANNEL N 2ND	6/12/1	7.6	130.1	10.4	127.1	115.2	88.5	P			RC
27106	N 8750 E 6650 2ND	6/9/2	7.6	130.1	9.8	128.1	116.7	89.7	P			RC



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 30 day 10 month 95 year

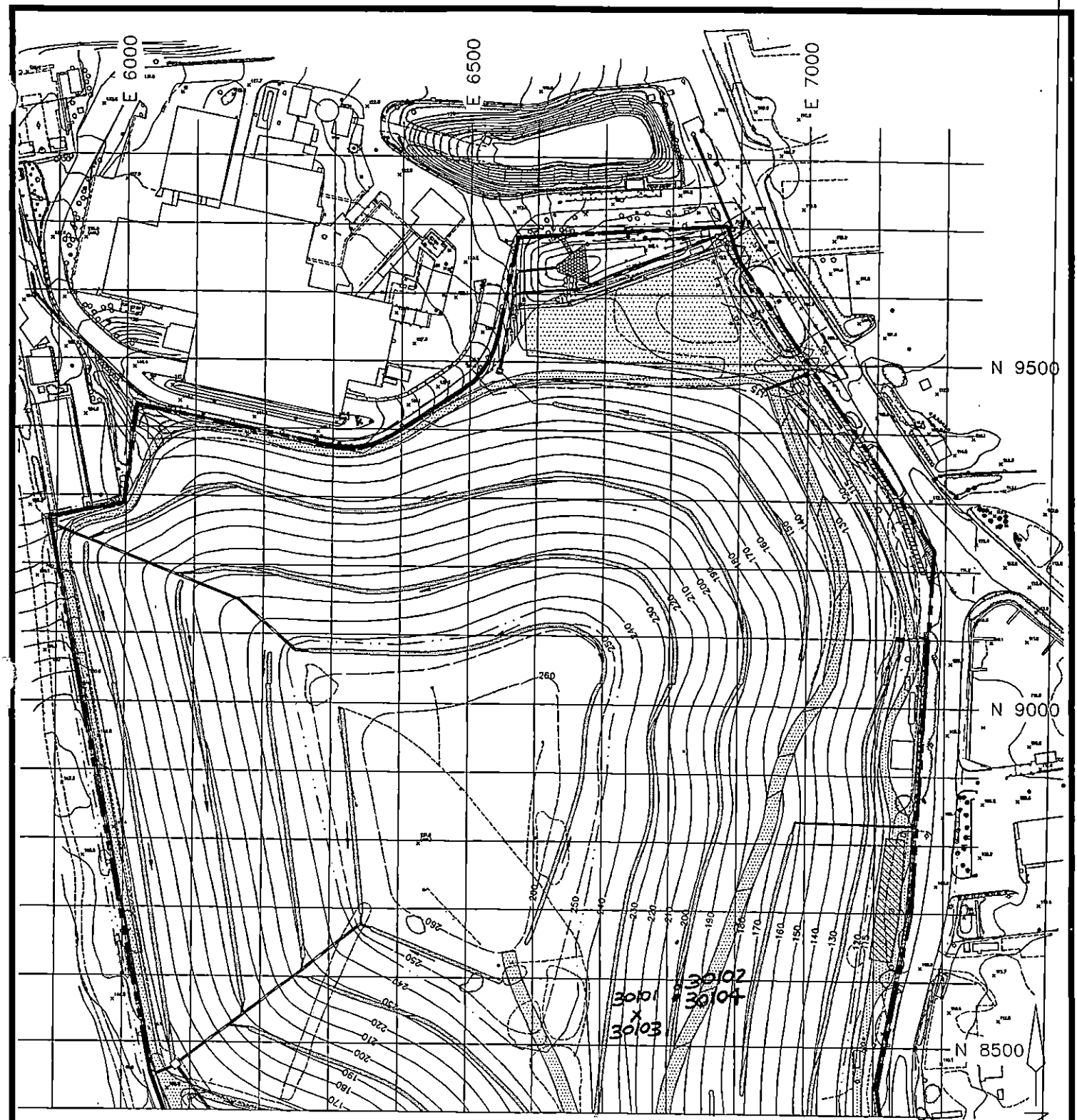
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A (B) C

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
30101	N 8550 E 6750 1ST	6/9/1	7.6	130.1	9.5	121.7	111.2	85.5	P			RG
30102	CHANNEL A 1ST	8/18/1	7.6	130.1	9.9	128.3	116.7	90.5	P			RG
30103	N 8550 E 6750 2ND	6/9/1	7.6	130.1	12.1	127.5	113.7	88.2	P			RG
30104	CHANNEL A 2ND	6/12/2	7.6	130.1	10.1	128.3	116.5	90.3	P			RG



TROXLER TEST LOCATION
SELECT 10/30/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 1 day 11 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
111-7	CHANNEL A 1ST	8/18/1	7.6	130.1	9.8	129.7	118.1	91.6	P			RC
111-8	CHANNEL A 2ND	6/12/2	7.6	130.1	9.2	128.8	118.0	91.5	P			RC
1119	N 8650 E 6750 1ST	6/9/1	7.6	130.1	10.4	128.1	116.6	90.5	P			RC
11110	CHANNEL A 1ST	8/18/1	7.6	130.1	10.0	129.3	117.5	91.2	P			RC

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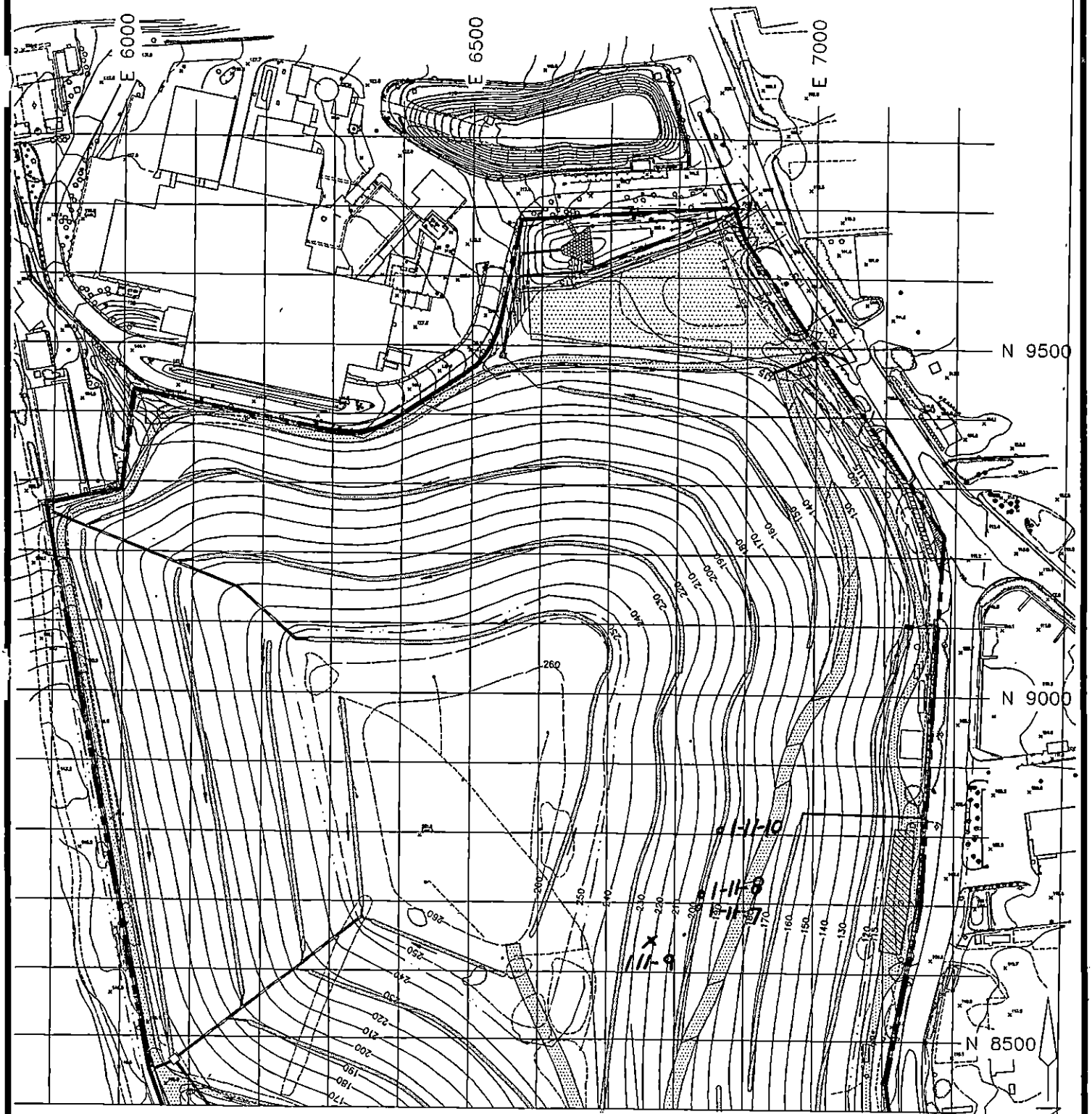


TROXLER TEST LOCATION
SELECT 11/1/95 RC.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 6 day 11 month 95 year

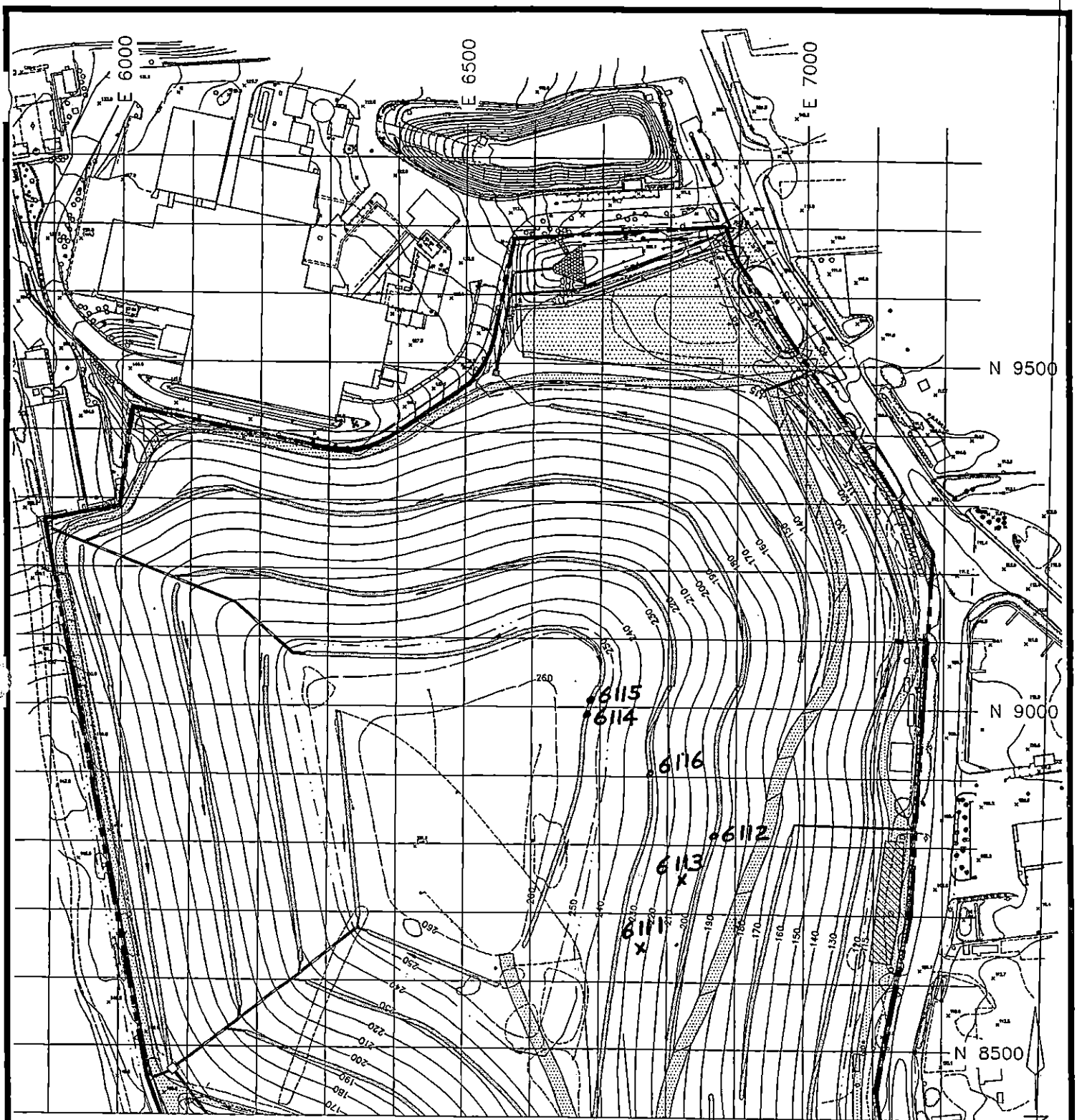
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
6.11.1	N 9650 E 6750 2ND	6/9/2	7.6	130.1	11.1	124.9	112.5	86.4	P			RL
6.11.2	CHANNEL A 2ND	6/12/2	7.6	130.1	9.7	126.1	114.9	88.3	P			RL
6.11.3	N 8750 E 6820 1ST	6/8.5/1	7.6	130.1	11.2	124.2	111.7	85.8	P			RL
6.11.4	CHANNEL N 1ST	8/18/1	7.6	130.1	9.5	127.3	116.2	89.3	P			RL
6.11.5	CHANNEL N 2ND	6/12/2	7.6	130.1	11.6	127.9	116.3	89.4	P			RL
6.11.6	CHANNEL B 1ST	8/18/1	7.6	130.1	9.3	127.4	116.6	89.6	P			RL



TROXLER TEST LOCATION
SELECT 11-6-95 RC.

0 100 200
1" = 200'

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170. CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 7 day 11 month 95 year

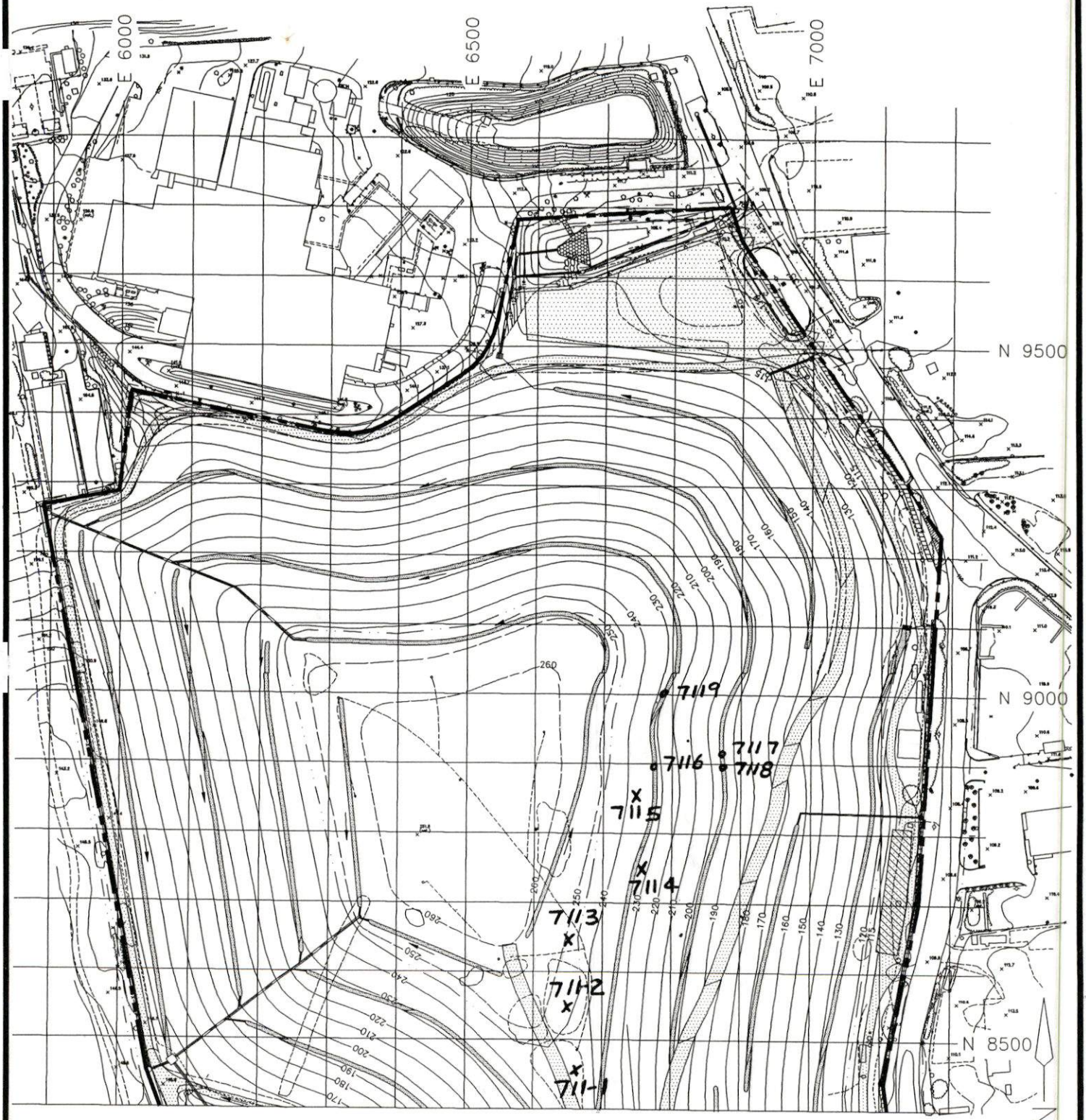
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B(C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
7.11-1	N 8450 E 6650 2ND	6/9/2	7.6	130.1	9.3	127.1	116.2	89.4	P			RC
7.11-2	N 8550 E 6650 2ND	6/9/2	7.6	130.1	10.1	127.1	115.5	88.8	P			RC
7.11-3	N 9650 E 6650 2ND	6/9/2	7.6	130.1	7.4	129.5	119.7	92.0	P			RC
7.11-4	N 8750 E 6760 2ND	6/9/2	7.6	130.1	10.8	128.2	117.4	90.2	P			RC
7.11-5	N 8850 E 6740 2ND	6/9/2	7.6	130.1	8.2	131.3	121.3	93.2	P			RC
7.11-6	CHANNEL B 2ND	6/12/2	7.6	130.1	8.0	131.4	121.7	93.5	P			RC
7.11-7	CHANNEL A 1ST	8/18/1	7.6	130.1	8.0	123.1	113.9	87.6	P			RC
7.11-8	CHANNEL A 2ND	6/12/2	7.6	130.1	10.6	131.4	118.9	91.4	P			RC
7.11-9	CHANNEL B 1ST	8/18/1	7.6	130.1	10.2	132.2	119.9	92.2	P			RC



TROXLER TEST LOCATION
SELECT 11-7-95 RC.

0 100 200
1" = 200'

N

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 8 day 11 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE / (COMPACTED)): —

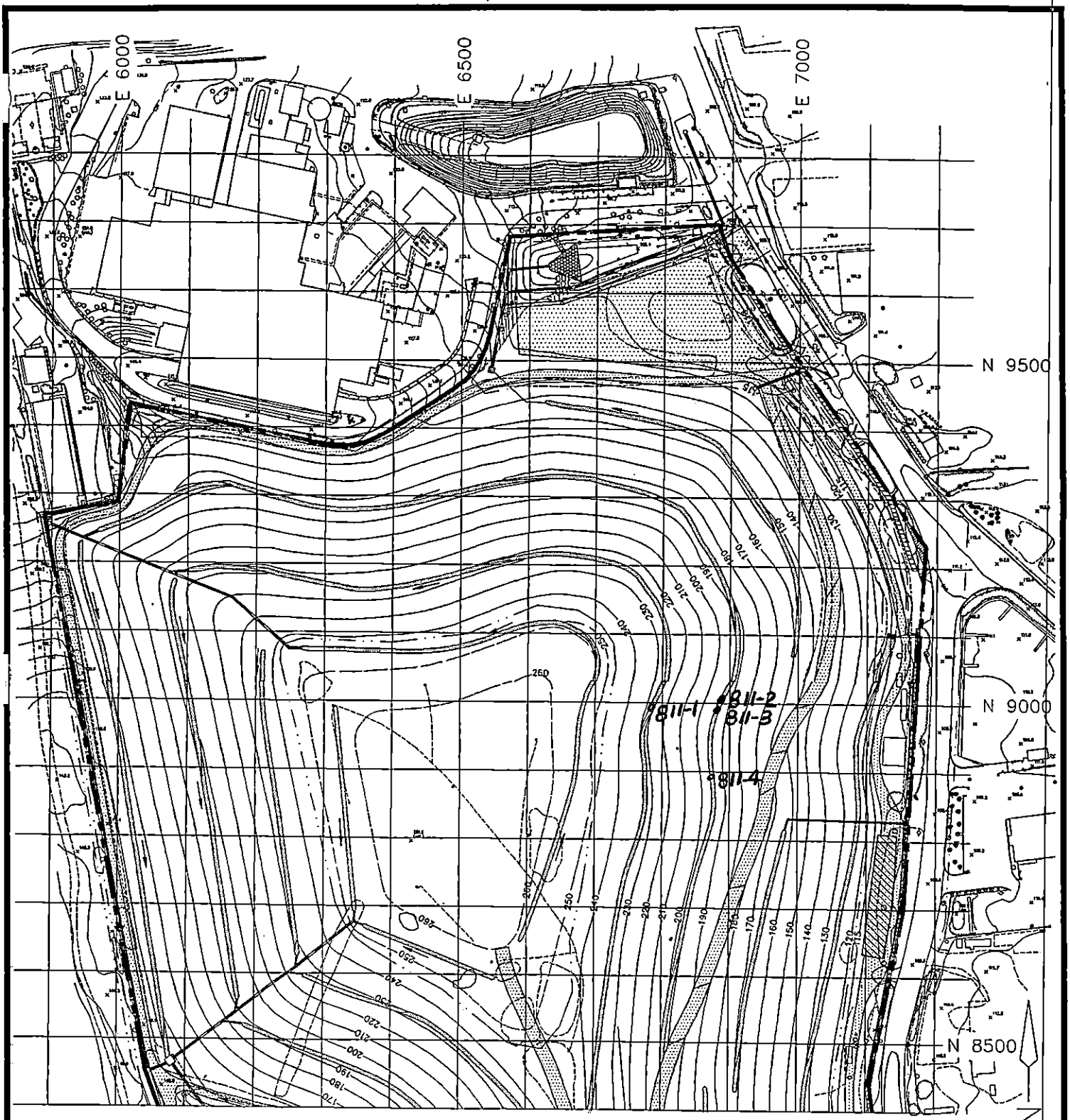
(CIRCLE ONE)

% COMPACTION: ≥ 85 % MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
8.11-1	CHANNEL B 2ND	6/12/2	7.6	130.1	10.2	122.9	111.5	85.7	P			RC
8.11-2	CHANNEL A 1ST	8/18/1	7.6	130.1	10.9	129.2	116.5	89.6	P			RC
8.11-3	CHANNEL A 2ND	6/12/2	7.6	130.1	11.7	129.3	115.7	88.9	P			RC
8.11-4	CHANNEL A 3RD	6/12/3	7.6	130.1	11.9	129.4	115.7	88.9	P			RC



TROXLER TEST LOCATION
SELECT 11/8/95 RC

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 11 month 95 year

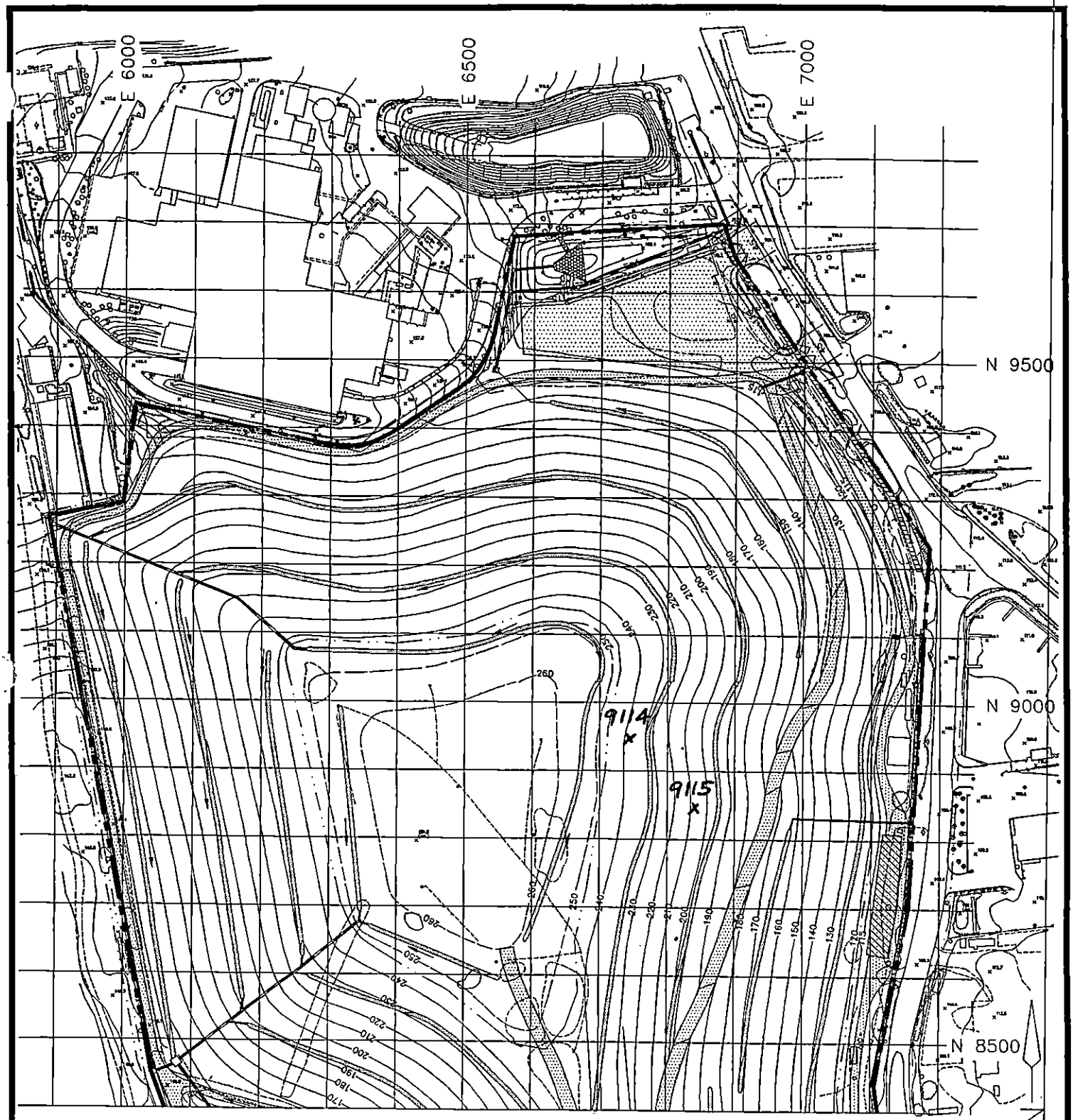
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED): 9"

% COMPACTION: ≥ 95% SELECT MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
9-11-4	N 8960 E 6750 1ST	6/9/1	7.6	130.1	8.9	127.0	116.6	89.7	P			RG
9-11-5	N 8850 E 6860 1ST	6/9/1	7.6	130.1	8.2	126.9	117.2	90.1	P			RG



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 16 day 11 month 95 year

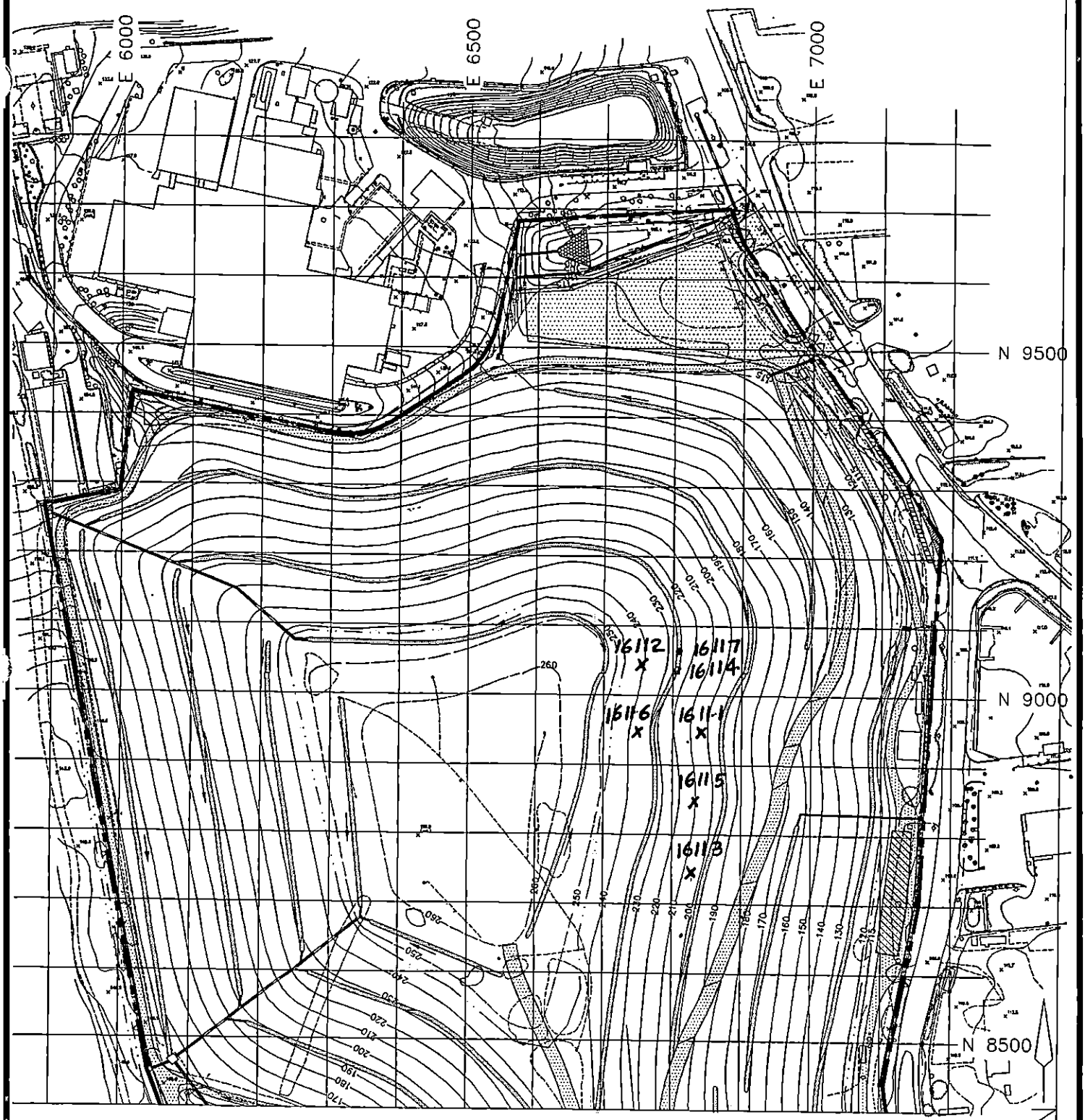
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT (CIRCLE ONE) LIFT THICKNESS (LOOSE, (COMPACTED)): —

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
1611-1	N 9950 E 6850 1ST	6/9/1	7.6	130.1	11.0	123.6	110.9	85.2	P			RC
1611-2	N 9050 E 6750 1ST	6/8¾/1	7.6	130.1	10.1	127.1	115.5	88.8	P			RC
1611-3	N 8750 E 6820 2ND	6/8½/2	7.6	130.1	10.5	123.8	111.8	86.0	P			RC
1611-4	CHANNEL B 1ST	8/18/1	7.6	130.1	10.8	128.2	117.4	90.2	P			RC
1611-5	N 8850 E 6820 2ND	6/9/2	7.6	130.1	10.0	125.3	113.6	87.3	P			RC
1611-6	N 8750 E 6750 2ND	6/9/2	7.6	130.1	10.5	124.7	112.8	86.4	P			RC
1611-7	CHANNEL B 2ND	6/12/2	7.6	130.1	10.0	124.4	112.9	86.8	P			RC



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 11 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)) ____

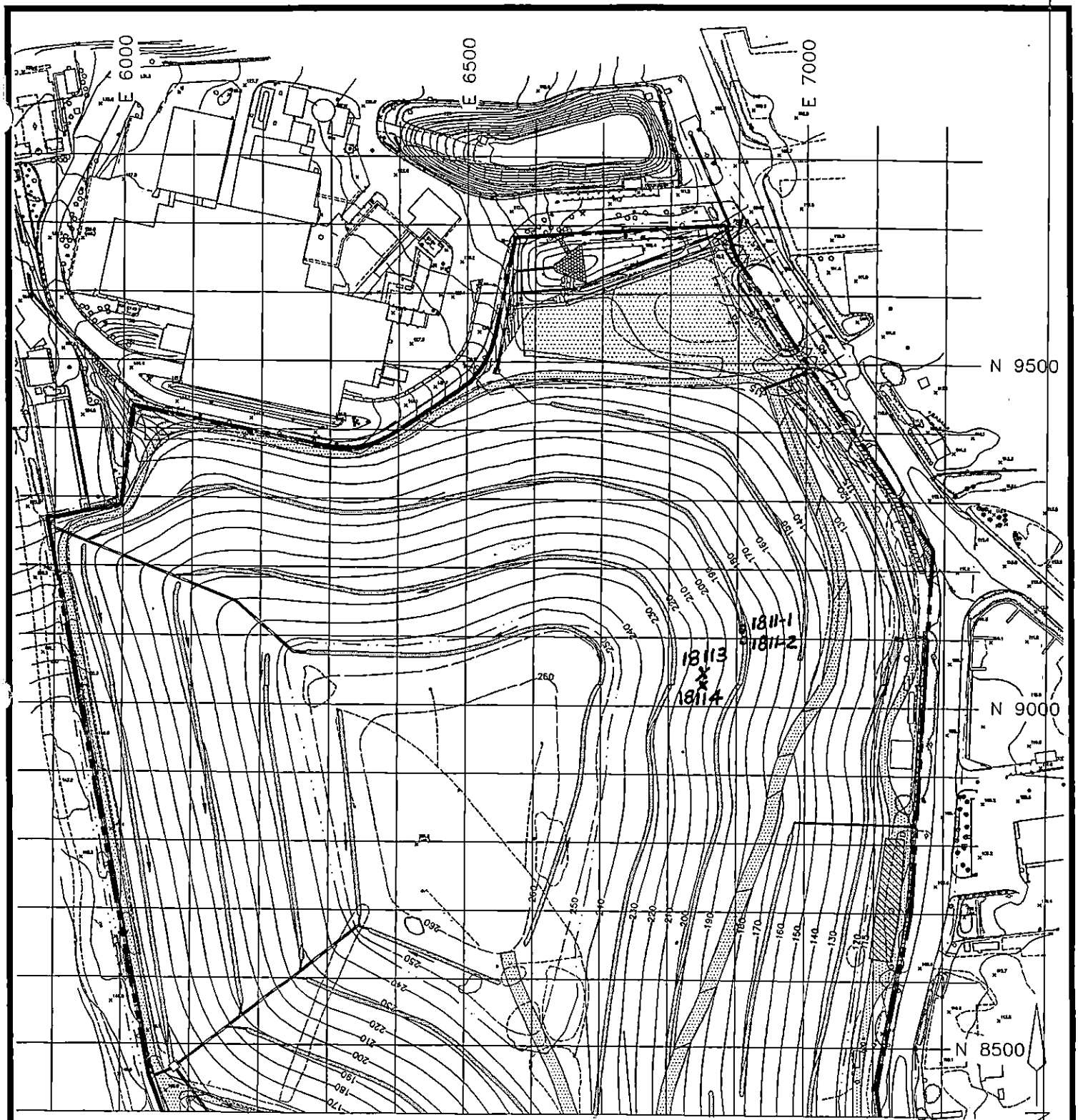
(CIRCLE ONE)

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C ____

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1811.1	CHANNEL A 1ST	8/18/1	7.6	130.1	9.5	127.9	116.8	89.8	P			RG
1811.2	CHANNEL A 2ND	6/12/2	7.6	130.1	9.1	125.9	115.3	88.6	P			RG
1811.3	N 9050 E 6850 1ST	6/8/1	7.6	130.1	10.0	125.4	114.0	87.6	P			RG
1811.4	N 9050 E 6850 2ND	6/9/1	7.6	130.1	9.5	125.4	114.5	88.0	P			RG



TROXLER TEST LOCATION
SELECT 11/18/95 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 21 day 11 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): —

% COMPACTION: ≥ 85 % MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION		PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
				OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
2111-1	N 9050 E 6850	1ST	6/9/1	7.6	130.1	11.1	129.2	116.3	89.4	P			RR
2111-2	N 9950 E 6850	2ND	6/9/2	7.6	130.1	10.2	129.5	117.5	90.3	P			RR
2111-3	N 9150 E 6850	1ST	6/85/1	7.6	130.1	10.8	127.9	115.4	88.7	P			RR
2111-4	N 9050 E 6750	2ND	6/9/2	7.6	130.1	9.6	129.0	117.7	90.5	P			RR
2111-5	N 9050 E 6850	2ND	6/9/2	7.6	130.1	12.6	129.4	114.9	88.3	P			RR
2111-6	CHANNEL B	1ST	8/18/1	7.6	130.1	11.0	129.4	116.6	89.6	P			RR
2111-7	CHANNEL B	2ND	6/12/2	7.6	130.1	9.2	123.2	112.8	86.7	P			RR
2111-8	CHANNEL N	1ST	8/18/1	7.6	130.1	9.8	124.9	113.7	87.4	P			RR

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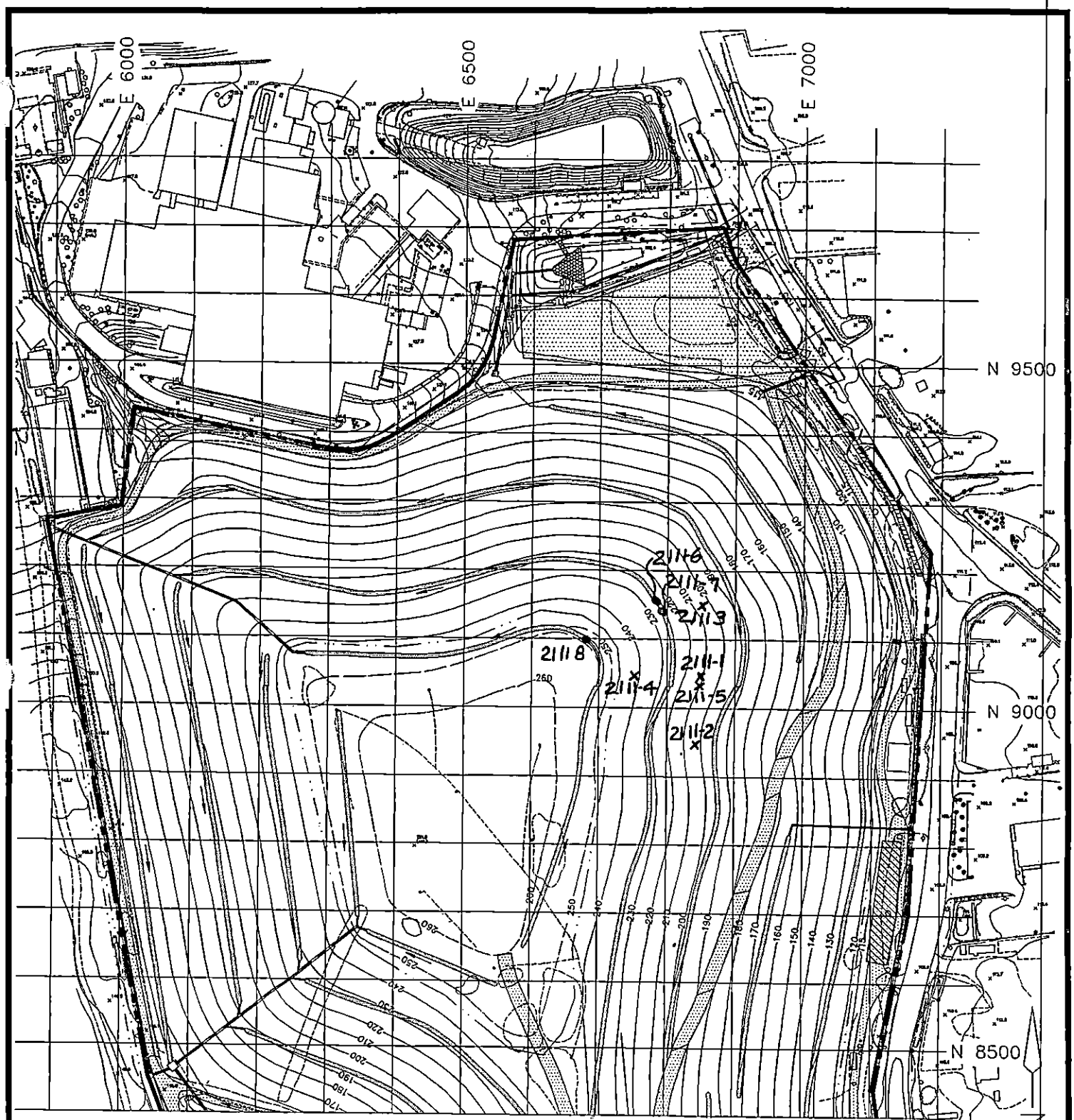


TROXLER TEST LOCATION
SELECT 11/21/95 RC.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day 11 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): —

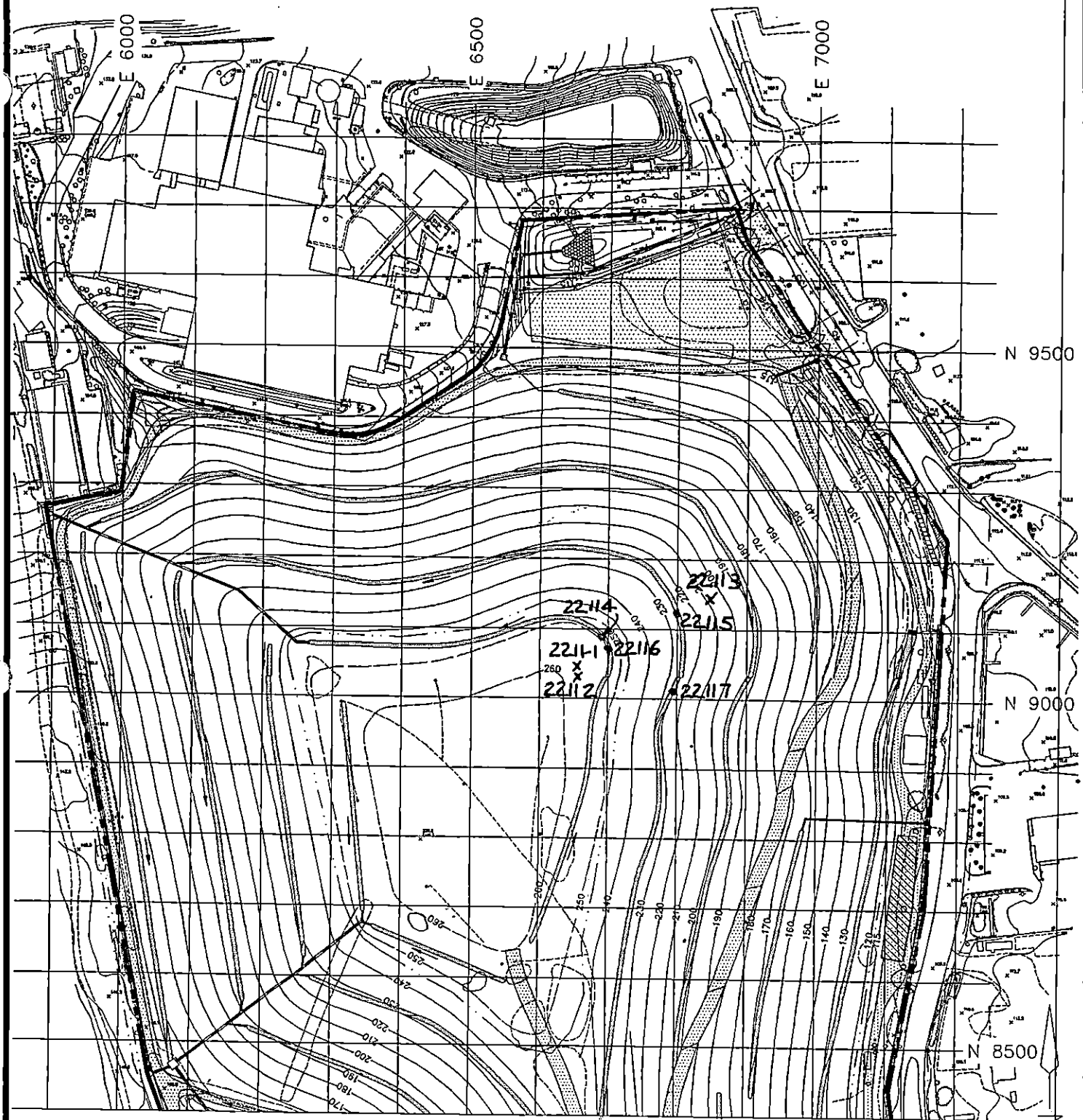
(CIRCLE ONE)

% COMPACTION: ≥ 85 % MOISTURE RANGE: ± 2 % ASTM D 698: A B C / (ASTM D 1557) A B C

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 11798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
22-11-1	N 9050 E 6650 1ST	6/8/1	7.6	130.1	9.7	126.2	115.0	88.4	P			RC
2211-2	N 9050 E 6650 2ND	6/9/2	7.6	130.1	10.3	129.3	117.2	90.1	P			RC
2211-3	N 9150 E 6850 2ND	6/9/2	7.6	130.1	10.6	125.8	113.7	87.4	P			RC
2211-4	CHANNEL N 2ND	6/12/2	7.6	130.1	9.2	125.1	114.6	88.1	P			RC
2211-5	CHANNEL B 3RD	6/12/2	7.6	130.1	9.7	127.5	116.2	89.3	P			RC
2211-6	CHANNEL N 3RD	6/12/2	7.6	130.1	9.2	124.7	114.2	87.8	P			RC
2211-7	CHANEL B 3RD	6/12/2	7.6	130.1	10.0	128.5	116.8	89.8	P			RC



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 27 day 11 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)) (CIRCLE ONE)

% COMPACTION: ≥ 85 % MOISTURE RANGE: ± 2 % ASTM D 698: A B C / (ASTM D 1557: A B C) (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
271-10	N9450 E 6850 1ST	6/9/1	7.6	130.1	8.3	126.0	116.3	89.4	P			RC
271-11	N 9450 E 6850 2ND	6/9/2	7.6	130.1	8.8	123.4	113.4	87.2	P			RC

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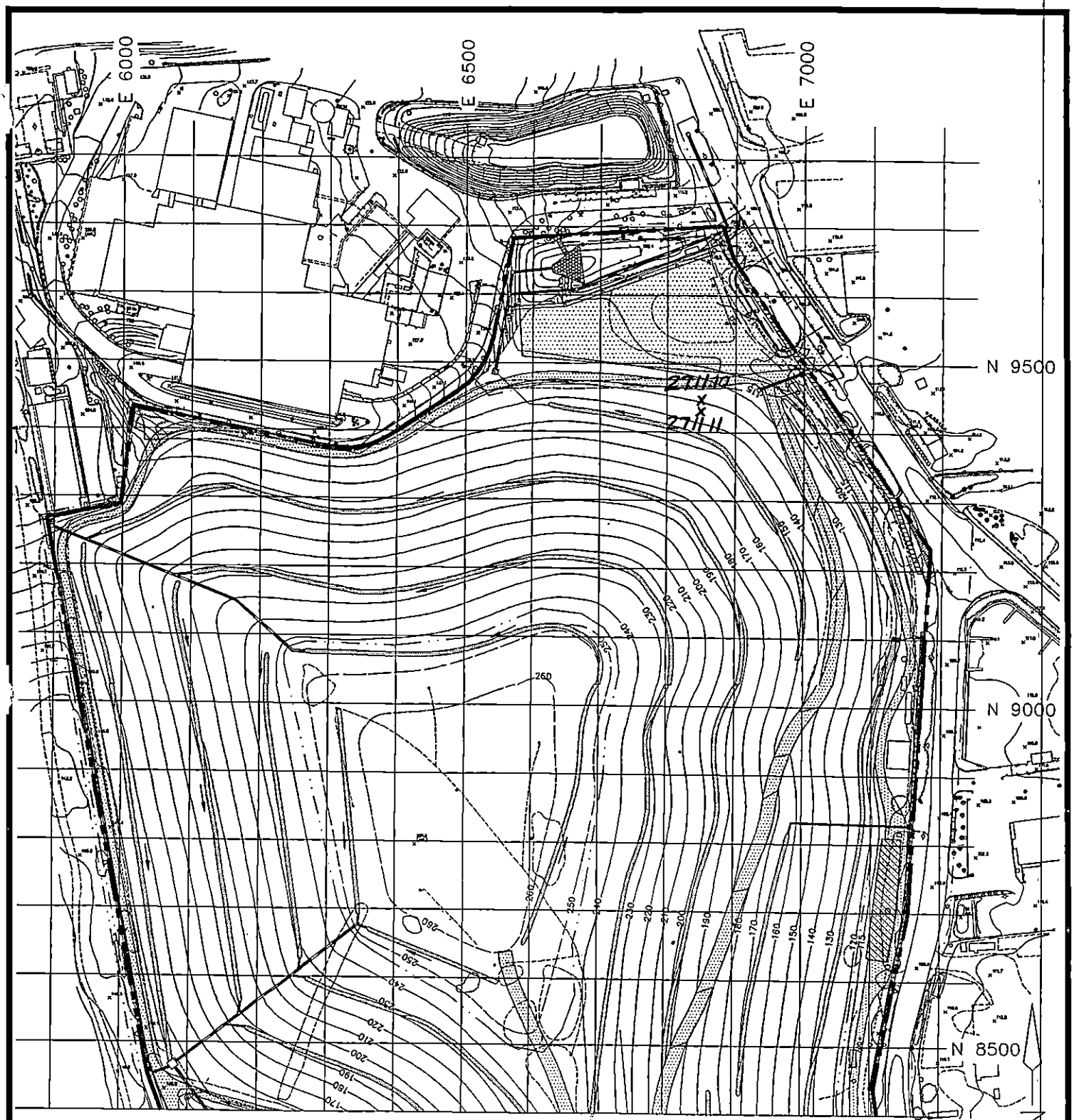

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 28 day 11 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): —

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
2811 1	N 9350 E 6850 1ST	6/8.5/1	7.6	130.1	9.6	123.6	112.8	86.7	P			RC
2811 2	N 9150 E 6750 1ST	6/9/1	7.6	130.1	9.2	126.9	116.2	89.3	P			RC
2811 3	CHANNEL A 3RD	6/12/3	7.6	130.1	9.9	126.5	115.1	88.5	P			RC
2811 4	CHANNEL A 1ST	8/18/1	7.6	130.1	9.4	128.2	117.2	90.1	P			RC
2811 5	CHANNEL A 2ND	6/12/2	7.6	130.1	9.1	125.1	114.7	88.2	P			RC
2811 6	CHANNEL V 1ST	8/18/1	7.6	130.1	9.0	124.5	114.2	87.8	P			RC
2811 7	CHANNEL V 2ND	6/12/2	7.6	130.1	9.3	129.7	118.7	91.2	P			RC
2811 8	CHANNEL V 1ST	8/18/1	7.6	130.1	9.1	127.0	116.4	89.5	P			RC
2811 9	CHANNEL V 2ND	6/12/2	7.6	130.1	9.5	130.3	119.0	91.5	P			RC

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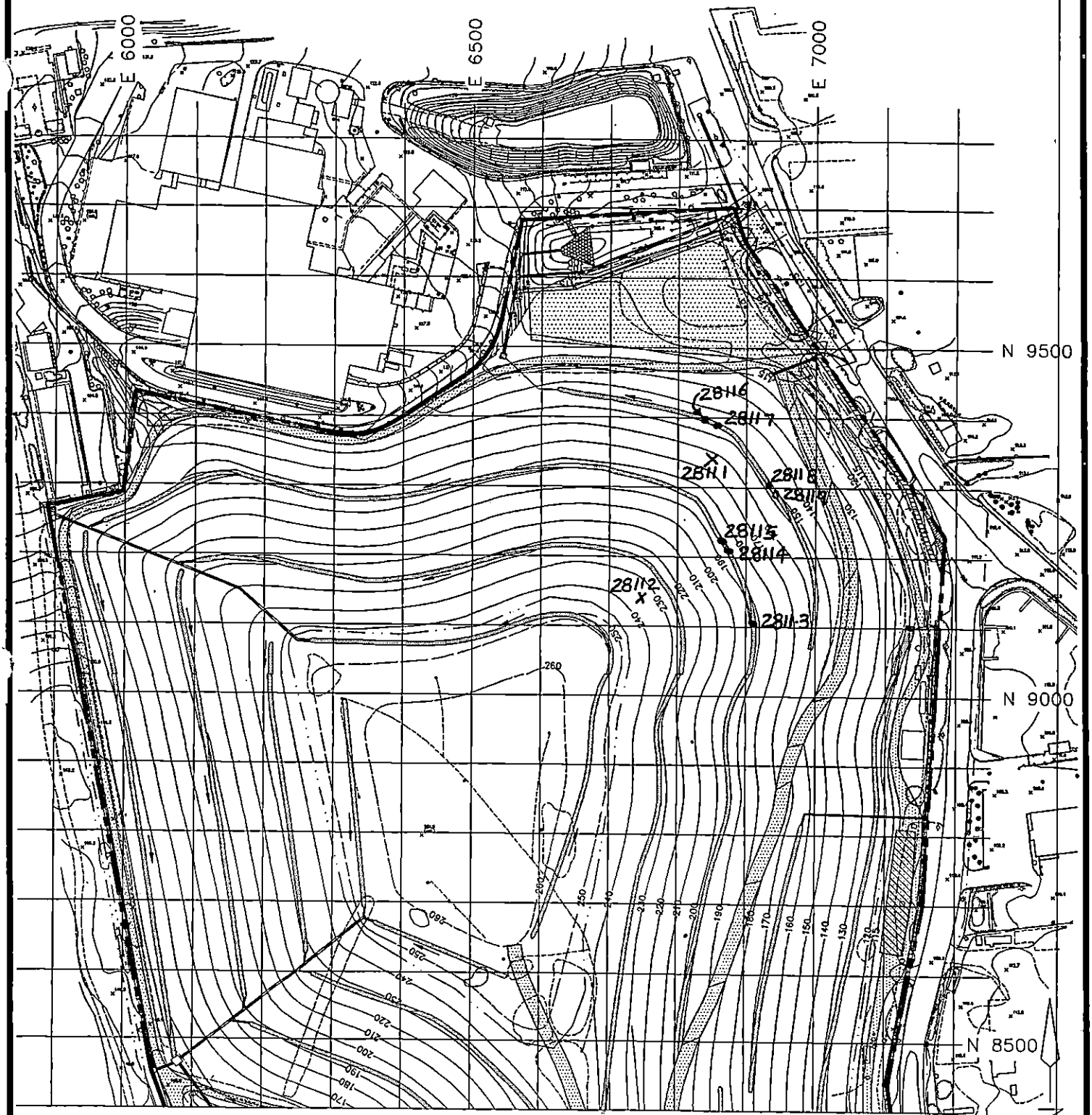


100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 1 day 12 month 95 year

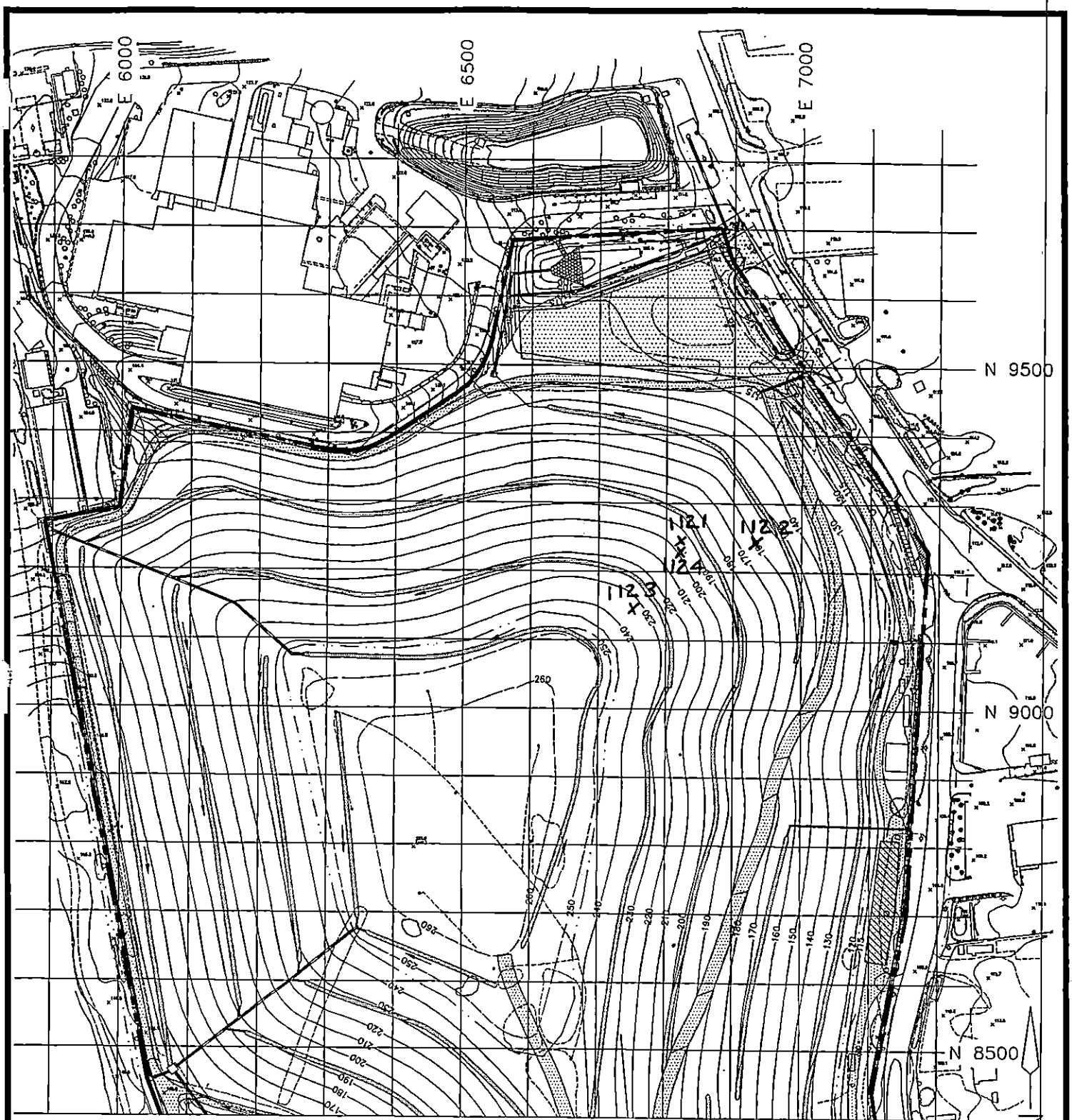
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

% COMPACTION: ≥ 95 % MOISTURE RANGE: ± 2 % ASTM D 698: A B C / (ASTM D 1557) A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 11798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1.12-1	N 9220 E 6810 1ST	6/9/1	7.6	130.1	9.2	123.8	113.4	87.2	P			RG
1.12-2	N 9240 E 6920 1ST	6/9/1	7.6	130.1	9.7	126.3	115.1	88.5	P			RG
1.12-3	N 9150 E 6750 2ND	6/8.5/1	7.6	130.1	10.1	126.2	114.6	88.1	P			RG
1.12-4	N 9220 E 6820 2ND	6/9/1	7.6	130.1	9.8	127.4	116.0	89.2	P			RG



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 4 day 12 month 95 year

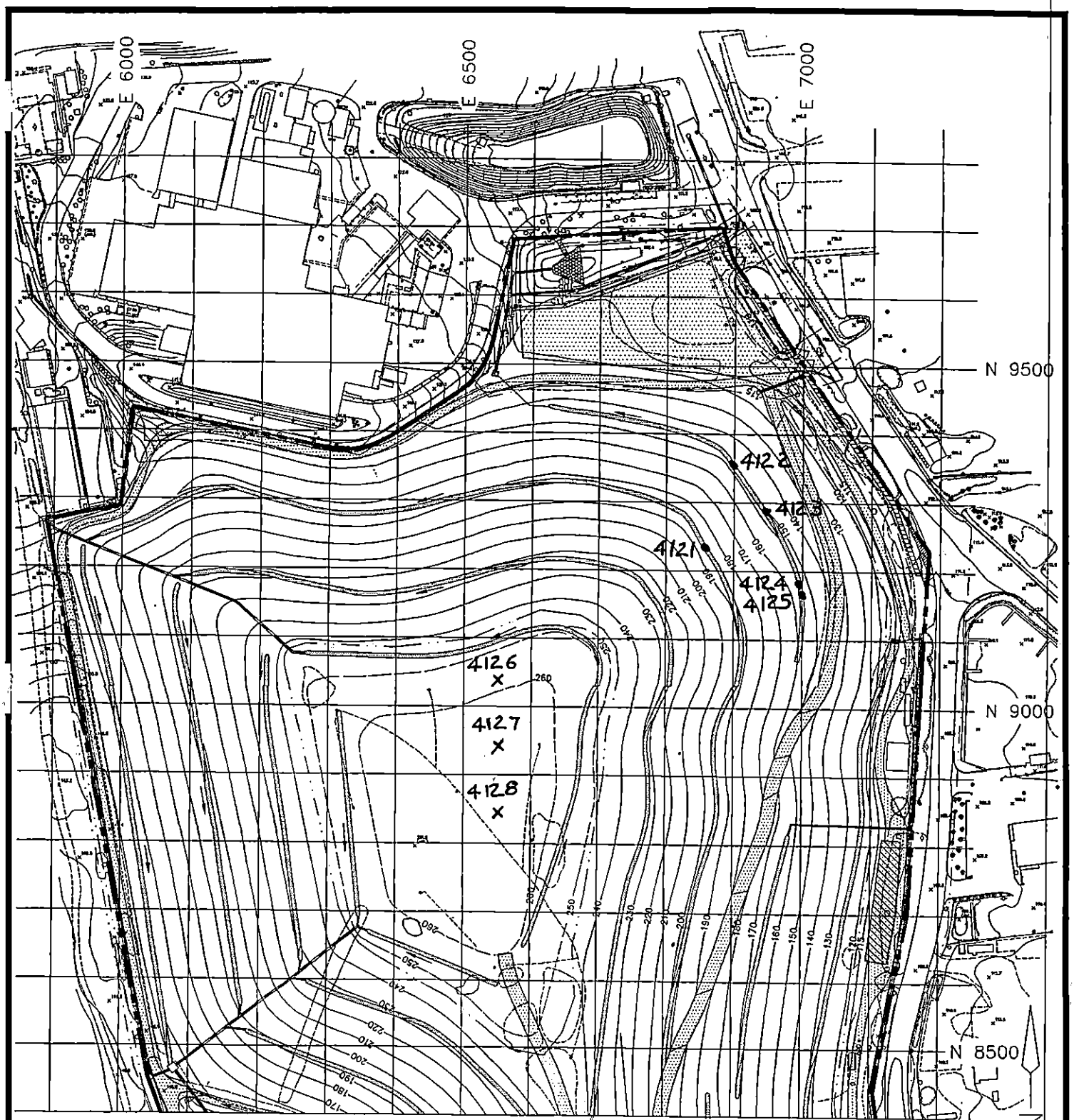
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): —

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C) (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 17798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
412-1	CHANNEL A 3RD	6/12/3	7.6	130.1	8.7	125.9	115.9	89.1	P			RC
412-2	CHANNEL V 3RD	6/12/3	7.6	130.1	9.4	125.5	114.7	88.2	P			RC
412-3	CHANNEL V 3RD	6/12/3	7.6	130.1	8.1	124.7	115.4	88.7	P			RC
412-4	CHANNEL V 1ST	8/18/1	7.6	130.1	8.9	128.1	117.6	90.4	P			RC
412-5	CHANNEL V 2ND	6/12/2	7.6	130.1	8.4	128.7	118.7	91.2	P			RC
412-6	N 9050 E 6550 1ST	6/8.5/1	7.6	130.1	10.0	126.9	115.4	88.7	P			RC
412-7	N 8950 E 6550 1ST	6/9/1	7.6	130.1	9.2	125.0	114.5	88.0	P			RC
412-8	N 8850 E 6550 1ST	6/9/1	7.6	130.1	8.3	126.1	116.4	89.5	P			RC



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 5 day 12 month 95 year

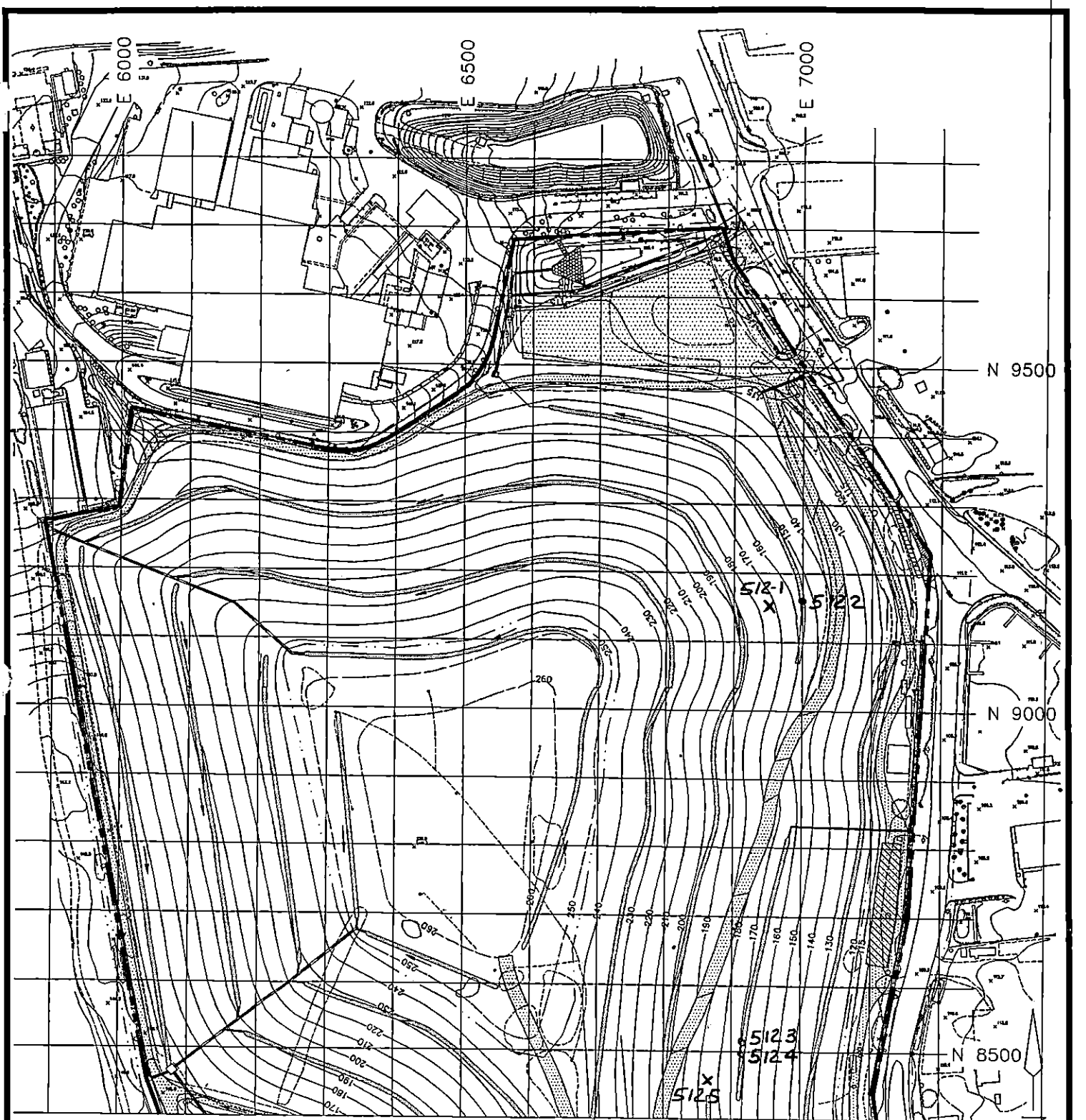
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): —
(CIRCLE ONE)

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 11798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
512-1	N9150 E6950 1ST	6/8.5/1	7.6	130.1	9.4	126.0	115.3	88.6	P			RG
512-2	CHANNEL V 3RD	6/12/3	7.6	130.1	11.0	125.6	113.1	86.9	P			RG
512-3	CHANNEL Z 1ST	8/18/1	7.6	130.1	10.2	126.9	115.2	88.5	P			RG
512-4	CHANNEL Z 2ND	6/12/2	7.6	130.1	10.5	126.6	114.6	88.1	P			RG
512-5	N8350 E6850 1ST	6/9/1	7.6	130.1	9.7	125.1	114.0	87.6	P			RG



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 6 day 12 month 95 year

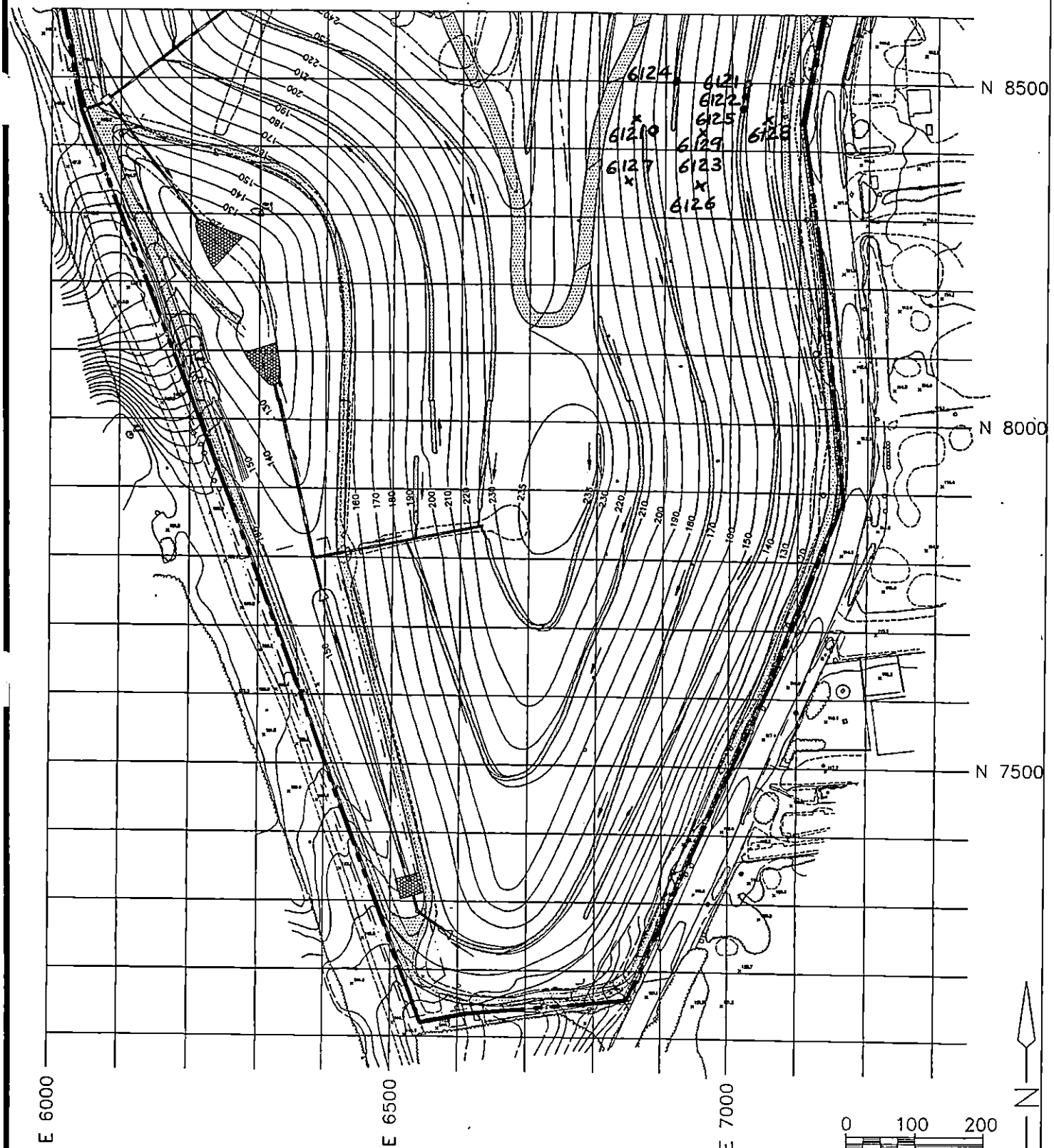
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT (CIRCLE ONE) LIFT THICKNESS (LOOSE / COMPACTED) —

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 11798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
6-12-1	CHANNEL J 1ST	8/1.8/1	7.6	130.1	8.7	123.2	113.3	87.1	P			RC
6-12-2	CHANNEL J 2ND	6/12/2	7.6	130.1	9.2	122.7	112.4	86.4	P			RC
6-12-3	N 8350 E 6950 1ST	6/9/1	7.6	130.1	8.4	124.6	114.9	88.3	P			RC
6-12-4	CHANNEL Z 3RD	6/12/3	7.6	130.1	9.8	125.3	114.1	87.7	P			RC
6-12-5	CHANNEL J 3RD	6/12/3	7.6	130.1	9.7	124.8	113.8	87.5	P			RC
6-12-6	N 8350 E 6950 2ND	6/8.5/2	7.6	130.1	8.3	122.5	113.1	86.9	P			RC
6-12-7	N 8350 E 6850 2ND	6/9/2	7.6	130.1	8.6	124.5	114.6	88.1	P			RC
6-12-8	N 8450 E 7050 1ST	6/9/1	7.6	130.1	8.9	122.9	112.9	86.8	P			RC
6-12-9	N 8450 E 6950 1ST	6/9/1	7.6	130.1	8.3	123.0	113.6	87.3	P			RC
6-12-10	N 8450 E 6850 1ST	6/9/1	7.6	130.1	9.0	123.5	113.3	87.1	P			RC



TROXLER TEST LOCATION
SELECT 12/6/85 R.C.

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2C
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 1

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 7 day 12 month 95 year

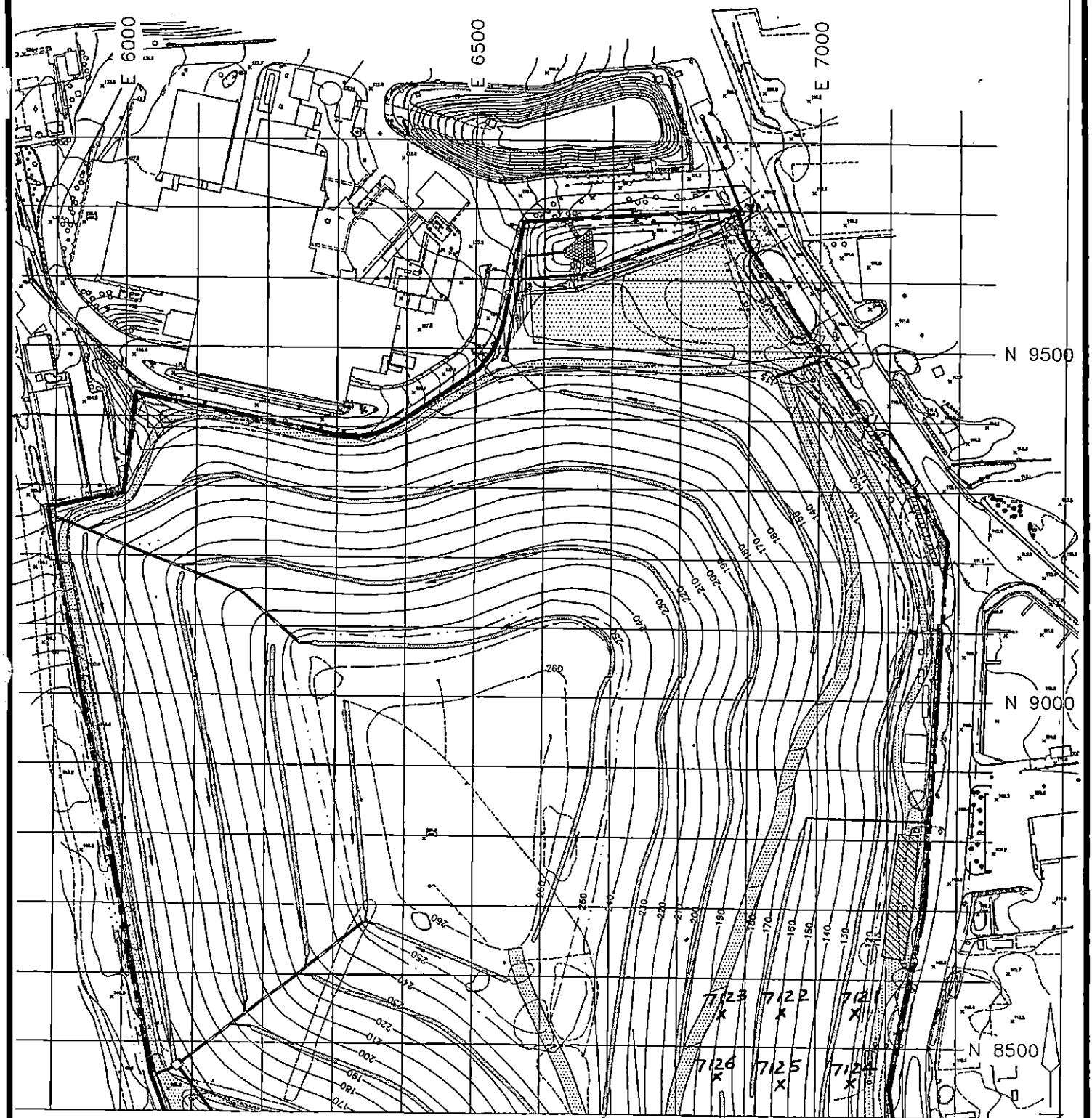
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): —

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 11798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
712-1	N8550 E7050 1ST	6/9/1	7.6	130.1	8.2	124.0	114.6	88.1	P			DW
712-2	N8550 E6950 1ST	6/9.5/1	7.6	130.1	8.9	124.0	113.9	87.6	P			DW
712-3	N8550 E6850 1ST	6/8.5/1	7.6	130.1	9.6	124.3	113.4	87.2	P			DW
712-4	N8450 E7050 2ND	6/9/2	7.6	130.1	9.1	125.5	115.0	88.4	P			DW
712-5	N8450 E6950 2ND	6/9/2	7.6	130.1	9.5	123.5	112.8	86.7	P			DW
712-6	N8450 E6850 2ND	6/9/2	7.6	130.1	8.7	124.7	114.7	88.2	P			DW



TROXLER TEST LOCATION
SELECT 12/7/95

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 8 day 12 month 95 year

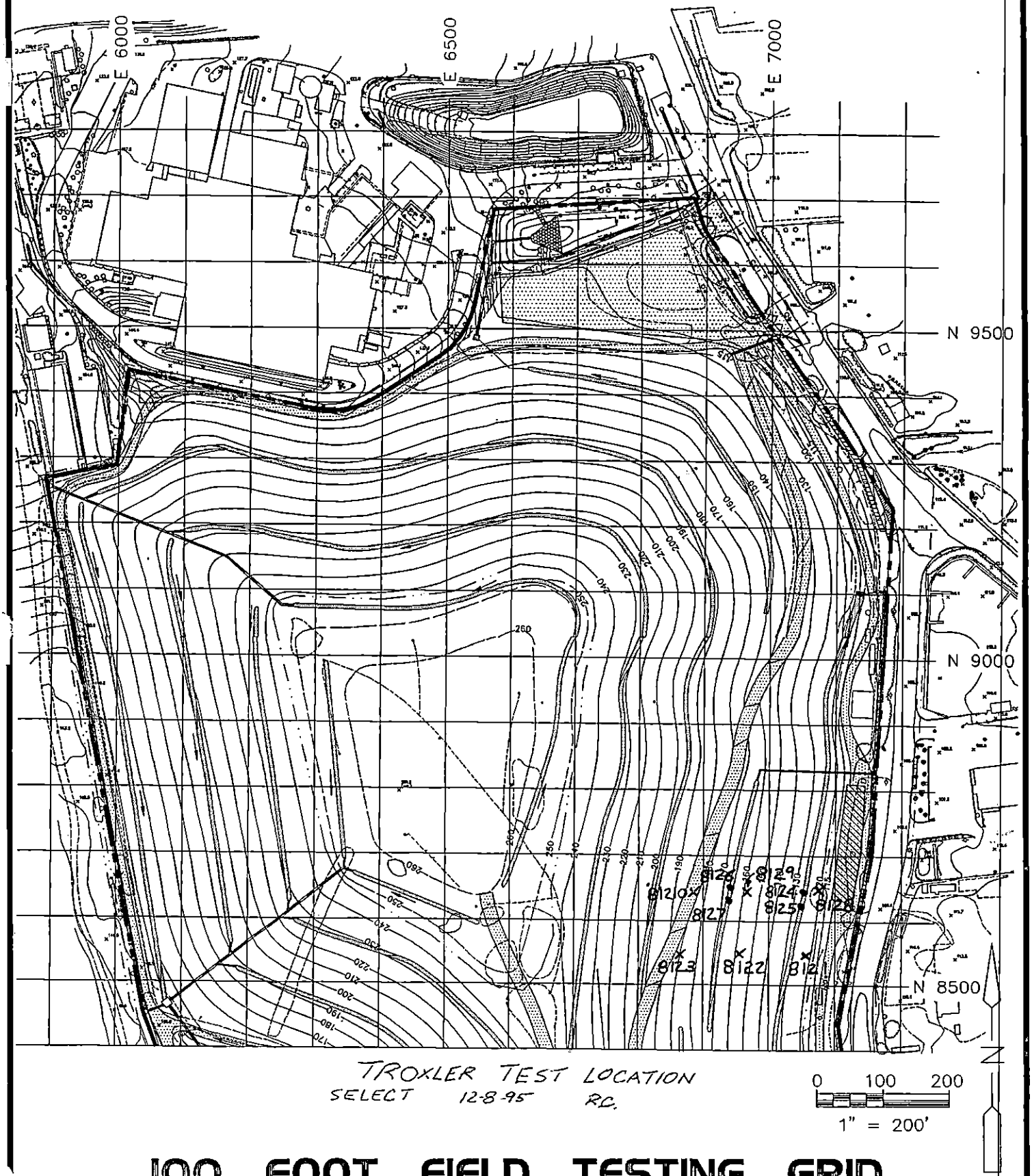
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557: A B C)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 11798 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
8.12-1	N8550E.7050 2ND	6/9/2	7.6	130.1	8.4	122.8	113.3	87.1	P			RC
8.12-2	N8550E.6950 2ND	6/9/2	7.6	130.1	9.0	122.6	112.5	86.5	P			RC
8.12-3	N.8550.E.6850 2ND	6/9/2	7.6	130.1	9.2	124.6	114.1	87.7	P			RC
8.12-4	CHANNEL J 1ST	8/18/1	7.6	130.1	8.8	124.5	114.4	87.9	P			RC
8.12-5	CHANNEL J 2ND	6/12/2	7.6	130.1	8.1	121.9	112.8	86.7	P			RC
8.12-6	CHANNEL Z 1ST	8/18/1	7.6	130.1	8.4	124.2	114.6	88.1	P			RC
8.12-7	CHANNEL Z 2ND	6/12/2	7.6	130.1	8.7	125.3	115.3	88.6	P			RC
8.12-8	N.8650.E.7050 1ST	6/8/1	7.6	130.1	8.3	123.0	113.6	87.3	P			RC
8.12-9	N.8650.E.6950 1ST	6/9/1	7.6	130.1	8.9	123.2	113.1	86.9	P			RC
8.12-10	N.8650.E.6880 1ST	6/9/1	7.6	130.1	8.5	124.4	114.7	88.2	P			RC



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 11 day 12 month 95 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED)): —

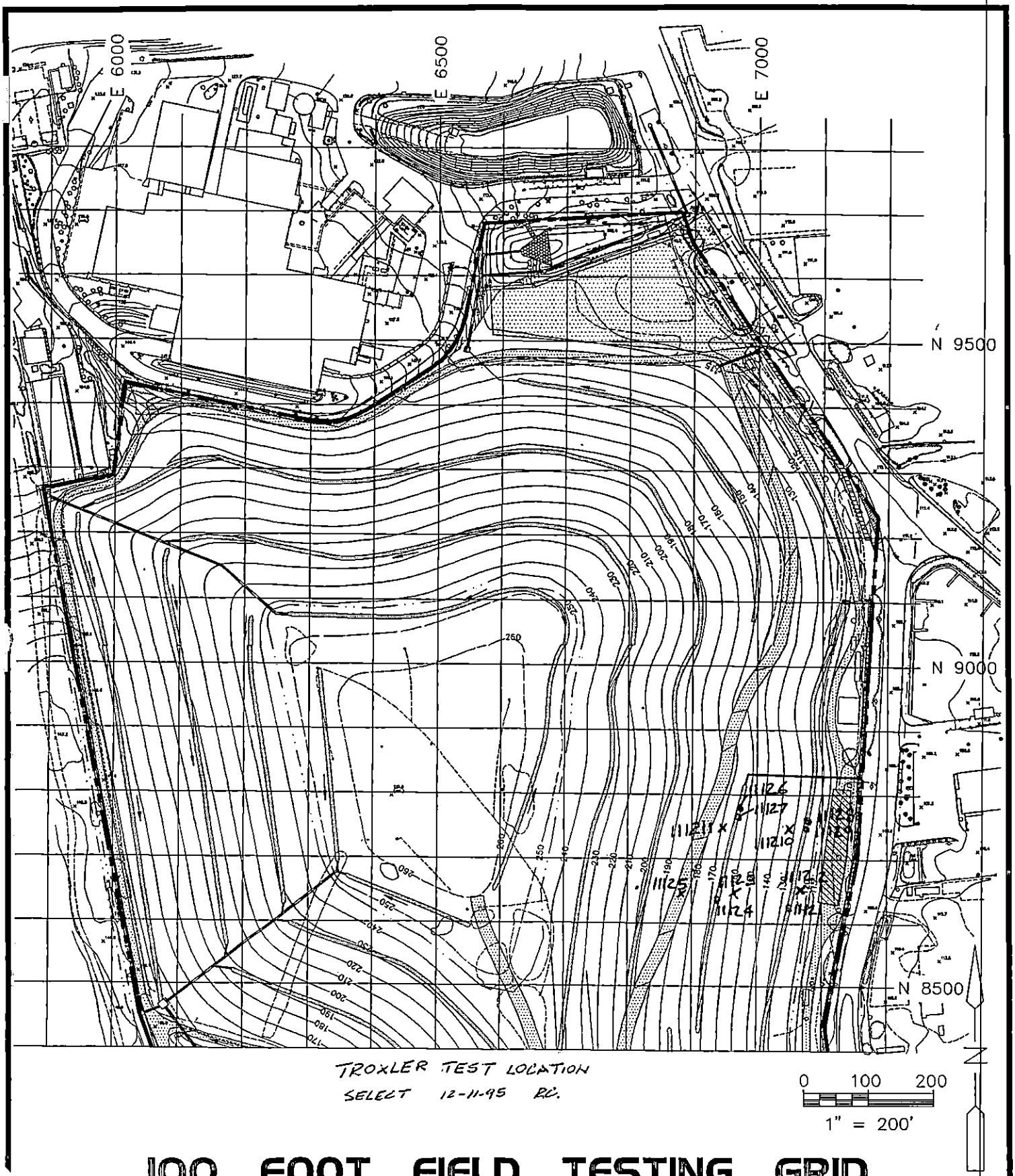
(CIRCLE ONE)

% COMPACTION: ≥ 85 % MOISTURE RANGE: ± 2 % ASTM D 698: A B C / (ASTM D 1557): A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 11798 COR. FACTOR: /

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1112-1	CHANNEL J 3RD	6/12/3	7.6	130.1	8.1	123.9	114.6	88.1	P			RC
1112-2	N 8650 E 7050 2ND	6/9.5/2	7.6	130.1	8.5	123.5	113.8	87.5	P			RC
1112-3	N 8650 E 6950 2ND	6/9/2	7.6	130.1	8.2	124.3	114.9	88.3	P			RC
1112-4	CHANNEL Z 3RD	6/12/3	7.6	130.1	8.9	123.5	113.4	87.2	P			RC
1112-5	N 8650 E 6880 2ND	6/9.5/2	7.6	130.1	8.3	121.4	112.1	86.2	P			RC
1112-6	CHANNEL Z 1ST	8/18/1	7.6	130.1	9.0	121.9	111.8	85.9	P			RC
1112-7	CHANNEL Z 2ND	6/12/2	7.6	130.1	8.7	122.3	112.5	86.5	P			RC
1112-8	CHANNEL J 1ST	8/18/1	7.6	130.1	8.2	122.0	112.8	86.7	P			RC
1112-9	CHANNEL J 2ND	6/12/2	7.6	130.1	9.1	121.8	111.6	85.8	P			RC
1112-10	N 8750 E 7050 1ST	6/9/1	7.6	130.1	8.8	121.7	111.9	86.0	P			RC
1112-11	N 8750 E 6950 1ST	6/9/1	7.6	130.1	8.6	122.5	112.8	86.7	P			RC



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day 12 month 95 year

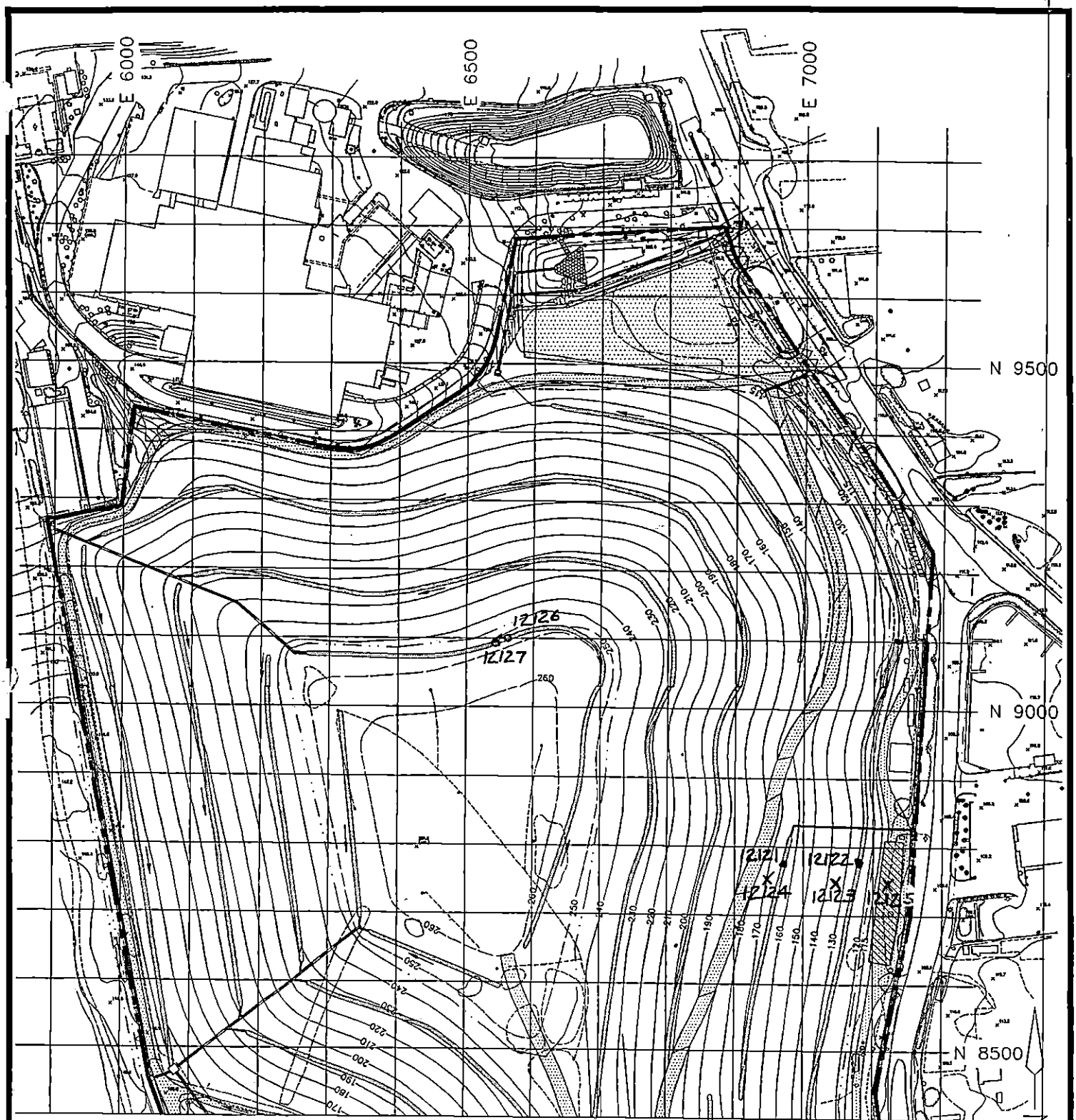
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED)): _____
(CIRCLE ONE)

% COMPACTION: ≥ 85% MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 11798 COR. FACTOR: /

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1212-1	CHANNEL Z 3RD	6/12/3	7.5	128.5	7.6	117.8	109.5	85.2	P			RC
1212-2	CHANNEL J 3RD	6/12/3	7.5	128.5	7.9	119.3	110.6	86.1	P			RC
1212-3	N 8750 E 7050 2ND	6/9/2	7.5	128.5	7.0	117.8	110.1	85.7	P			RC
1212-4	N 8750 E 6950 2ND	6/9/2	7.5	128.5	7.2	117.1	109.2	85.0	P			RC
1212-5	N 8750 E 7120 2ND	6/8.5/2	7.5	128.5	7.7	118.9	110.4	85.9	P			RC
1212-6	CHANNEL N 1ST	8/18/1	7.5	128.5	7.1	120.2	112.2	87.3	P			RC
1212-7	CHANNEL N 2ND	6/12/2	7.5	128.5	7.8	122.0	113.2	88.1	P			RC



100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-2B
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day 12 month 95 year

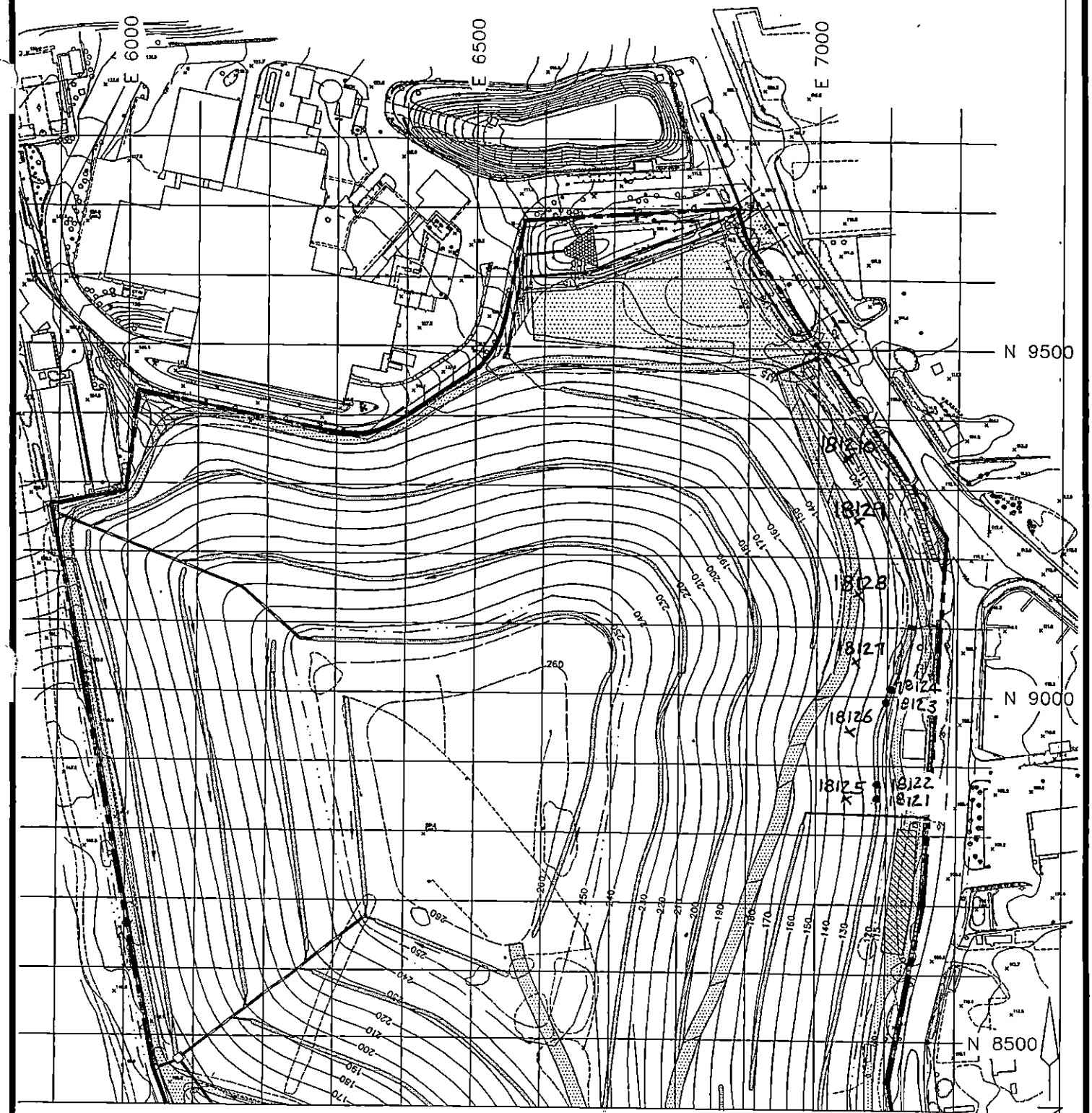
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: SELECT LIFT THICKNESS (LOOSE/(COMPACTED): —

% COMPACTION: ≥ 85 % MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B (C) —

NUCLEAR GAUGE TYPE: TROXLER 3440 NUCLEAR GAUGE SERIAL NO. 11798 COR. FACTOR: ✓

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1812-1	CHANNEL J 1ST	8/18/1	7.5	128.5	7.9	122.0	113.1	88.0	P			RC
1812-2	CHANNEL J 2ND	6/12/2	7.5	128.5	8.5	122.3	112.7	87.7	P			RC
1812-3	CHANNEL J 1ST	8/18/1	7.5	128.5	8.1	122.5	113.8	88.2	P			RC
1812-4	CHANNEL J 2ND	6/12/2	7.5	128.5	7.7	122.5	113.7	88.5	P			RC
1812-5	N8850 E7050 1ST	6/9/1	7.5	128.5	8.3	119.2	110.1	85.7	P			RC
1812-6	N8950 E7050 1ST	6/9/1	7.5	128.5	8.1	118.3	109.4	85.1	P			RC
1812-7	N9050 E7050 1ST	6/8.5/1	7.5	128.5	7.6	118.8	110.4	85.9	P			RC
1812-8	N9150 E7050 1ST	6/9/1	7.5	128.5	7.8	119.2	110.6	86.1	P			RC
1812-9	N9250 E7050 1ST	6/9/1	7.5	128.5	8.2	118.9	109.9	85.5	P			RC
1812-10	N9350 E7050 1ST	6/9/1	7.5	128.5	8.0	118.5	109.7	85.4	P			RC



TROXLER TEST LOCATION
SELECT 12/18/95

0 100 200
1" = 200'

100 FOOT FIELD TESTING GRID

Cashin Associates, P.C.	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	PROJECT NO. 4170.1
		CAD FILE NO. C-28
	INTERIM REMEDIAL PROGRAM	FIGURE NO. 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 2 day April month 1996 year

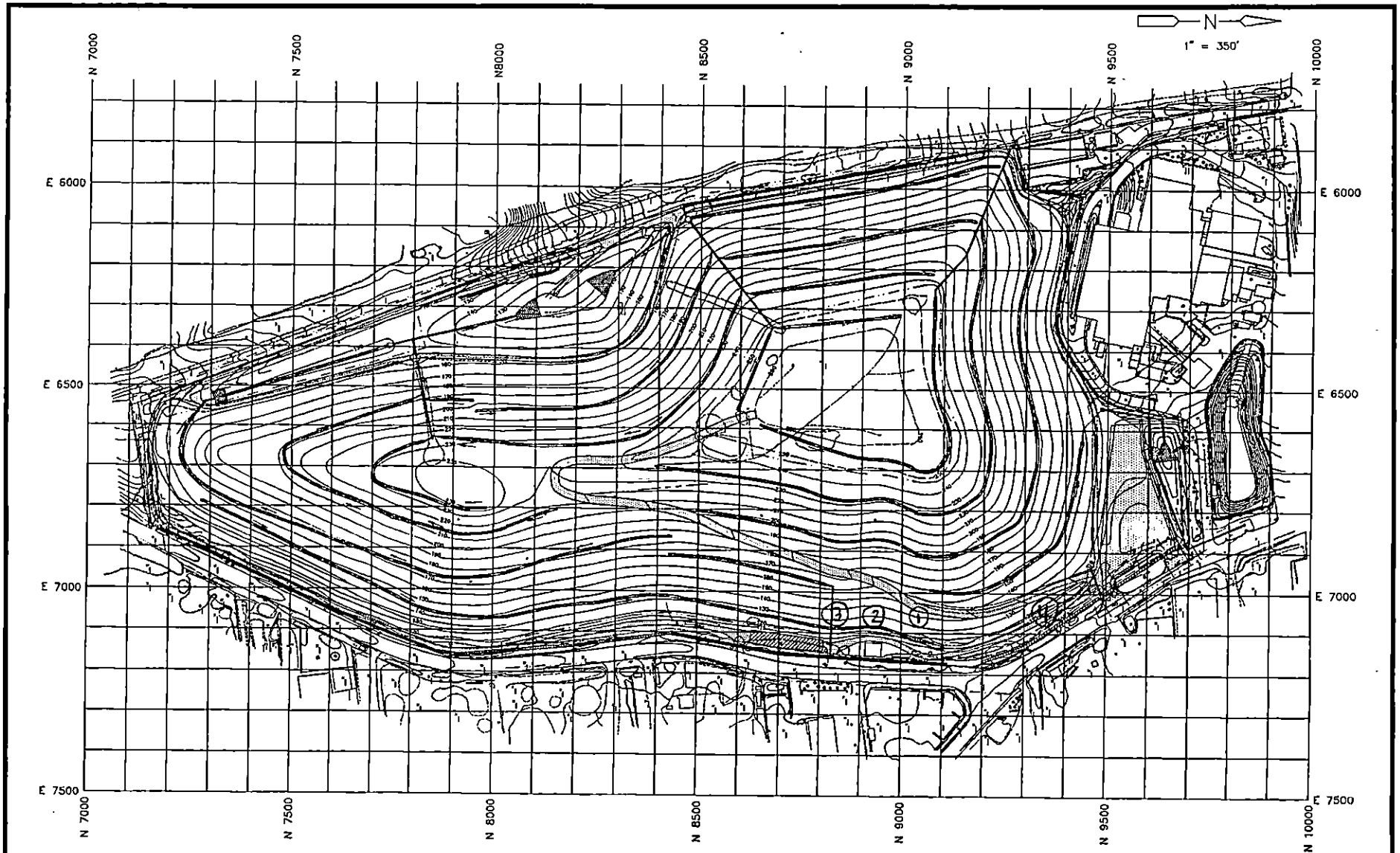
SPECIFICATION REQUIREMENTS

SOURCE: Select Fill Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% COMPACTION: ≥ 85% MOISTURE RANGE: ±2% ASTM D 698: A B C / (ASTM D 1557) A B (C) (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
020496-1	N 9050 E 6950	6" / 1	8.3	128.6	12.3	125.3	111.6	86.8	P			JD
020496-2	N 8950 E 6950	"	8.3	128.6	13.8	126.9	111.5	86.7	P			JD
020496-3	N 8850 E 6950	"	8.3	128.6	12.6	125.1	111.1	86.4	P			JD
020496-4	N 9350 E 6950	"	8.3	128.6	10.6	124.5	112.6	87.5	P			JD



Cashin Associates, P.C.
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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

4-2-96 Select Fill

PROJECT NO. 4170.1
CAD FILE NO. C-2A
SHEET NO. 100-FTG

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 3 day April month 96 year

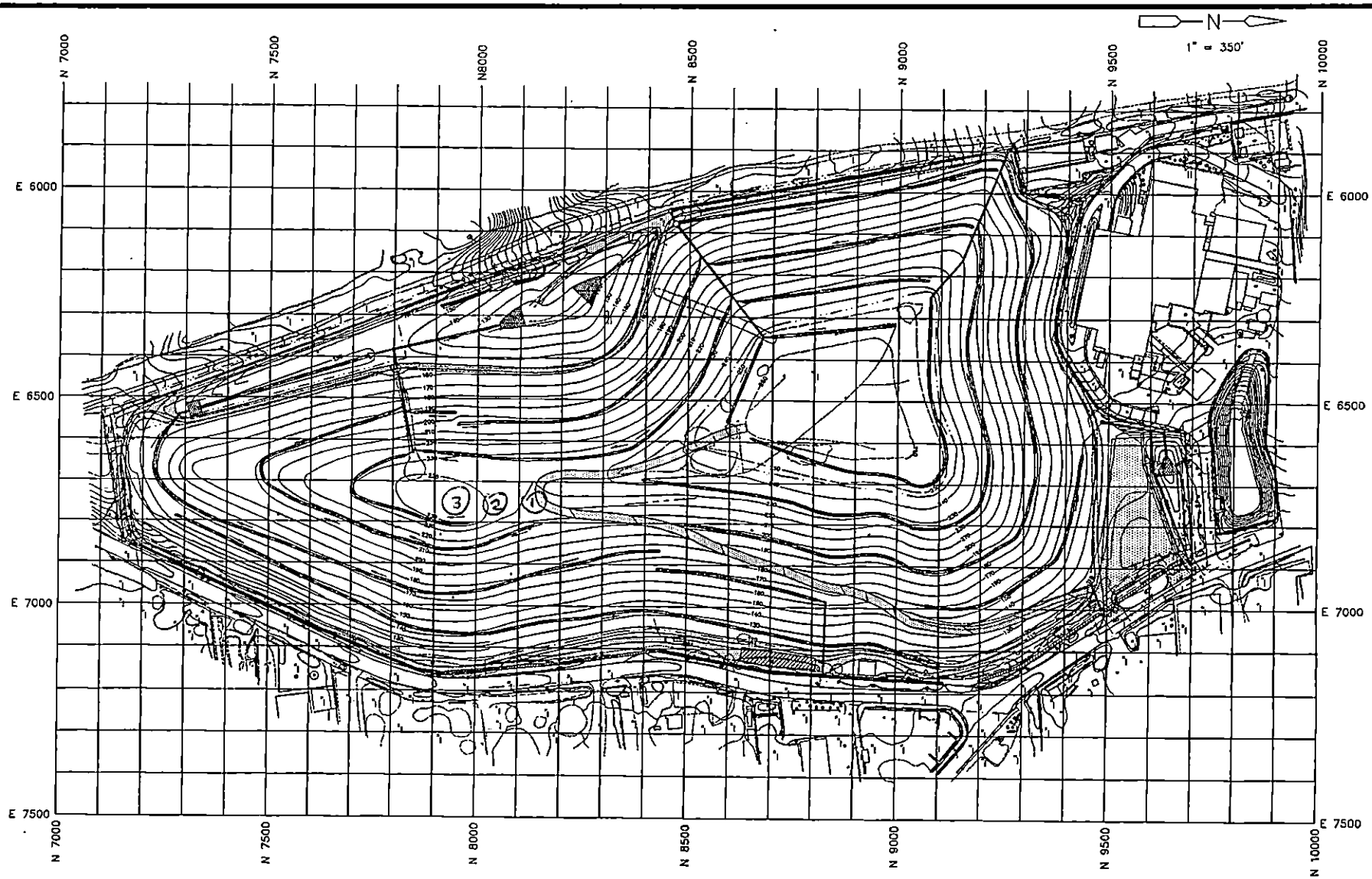
SPECIFICATION REQUIREMENTS

SOURCE: Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: 85.0 MOISTURE RANGE: ± 2% ASTM D 698: A B C / (ASTM D 1557) A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
030496-1	N 8150 E 6750	6"/1	8.3	128.6	7.9	122.8	113.7	88.6	P			JD
030496-2	N 8050 E 6750	6"/1	8.3	128.6	9.6	128.3	117.1	91.1	P			JD
030496-3	N 7950 E 6750	6"/1	8.3	128.6	8.1	127.9	118.3	92.0	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

4-3-96 Select Fill

PROJECT NO. 41203
CAD FILE NO. 0-2A
SHEET NO. 100-FTG

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 4 day 4 month 96 year

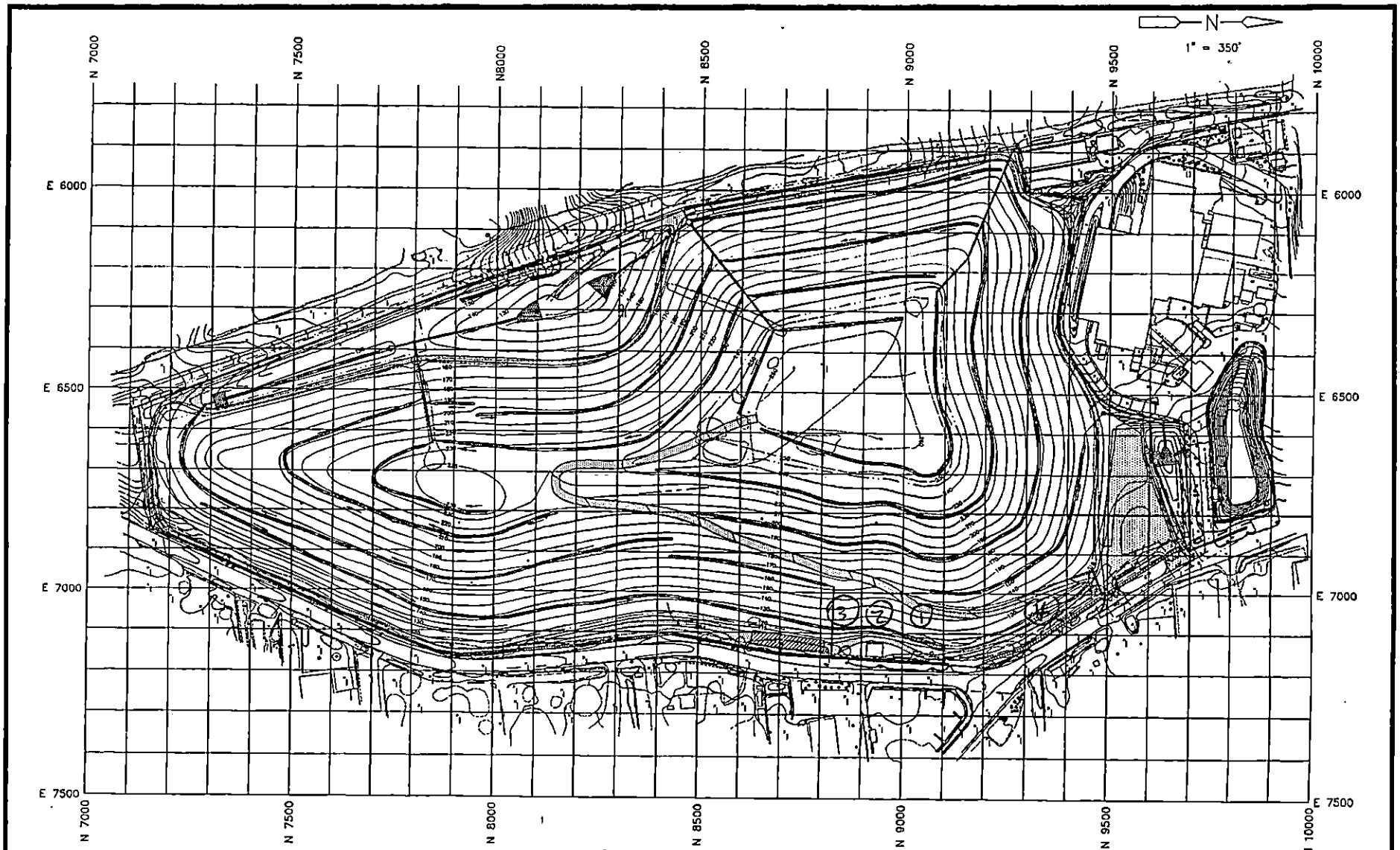
SPECIFICATION REQUIREMENTS

SOURCE: Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED): ±9"
(CIRCLE ONE)

% COMPACTION: 85.0 MOISTURE RANGE: ± 2.0% ASTM D 698: A B C / (ASTM D 1557: A B C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
040496-1	N 9050 E 6950	6"/2	8.3	128.6	9.5	124.5	113.7	88.4	P			JD
040496-2	N 8950 E 6950	6"/2	8.3	128.6	9.0	122.7	112.5	87.5	P			JD
040496-3	N 8850 E 6950	6"/2	8.3	128.6	11.3	123.7	111.2	86.5	P			JD
040496-4	N 9350 E 6950	6"/2	8.3	128.6	10.2	128.0	116.2	90.4	P			JD



Cashin Associates, P.C. ENGINEERS · ARCHITECTS · PLANNERS 1200 Veterans Memorial Highway · Hauppauge, New York 11788 · (516) 348-7600	EAST NORTHPORT LANDFILL TOWN OF HUNTINGTON, NEW YORK	100 FOOT FIELD TESTING GRID	PROJECT NO. 41751
	INTERIM REMEDIAL PROGRAM	4-4-96 Select Fill	CAD FILE NO. C-2A
			SHEET NO. 100-FTG

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 5 day April month 96 year

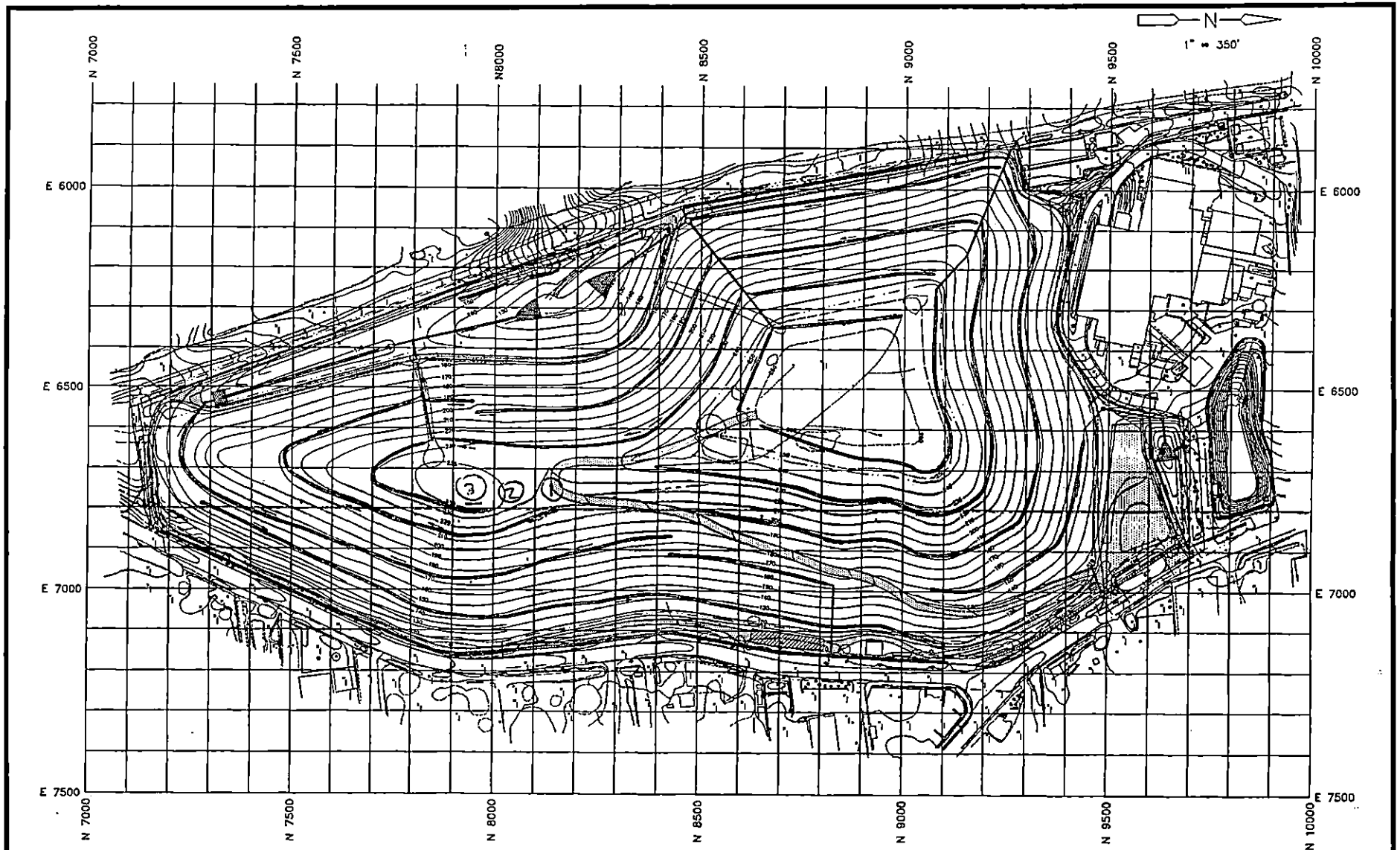
SPECIFICATION REQUIREMENTS

SOURCE: Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ (CIRCLE ONE) LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% COMPACTION: 85.0 MOISTURE RANGE: ±2.0% ASTM D 698: A B C / (ASTM D 1557): A B (C) (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
050496-1	N 8150 E 6750	6"/2	8.3	128.6	12.7	130.3	115.7	90.0	P			JD
050496-2	N 8050 E 6750	6"/2	8.3	128.6	12.0	122.3	109.2	85.0	P			JD
050496-3	N 7950 E 6750	6"/2	8.3	128.6	11.8	127.5	114.1	88.7	P			JD
~~050496-4~~												



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

4-5-96 Select Fill

PROJECT NO. 43751
CAD FILE NO. C-2A
SHEET NO. 100-FTG

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 9 day 4 month 96 year

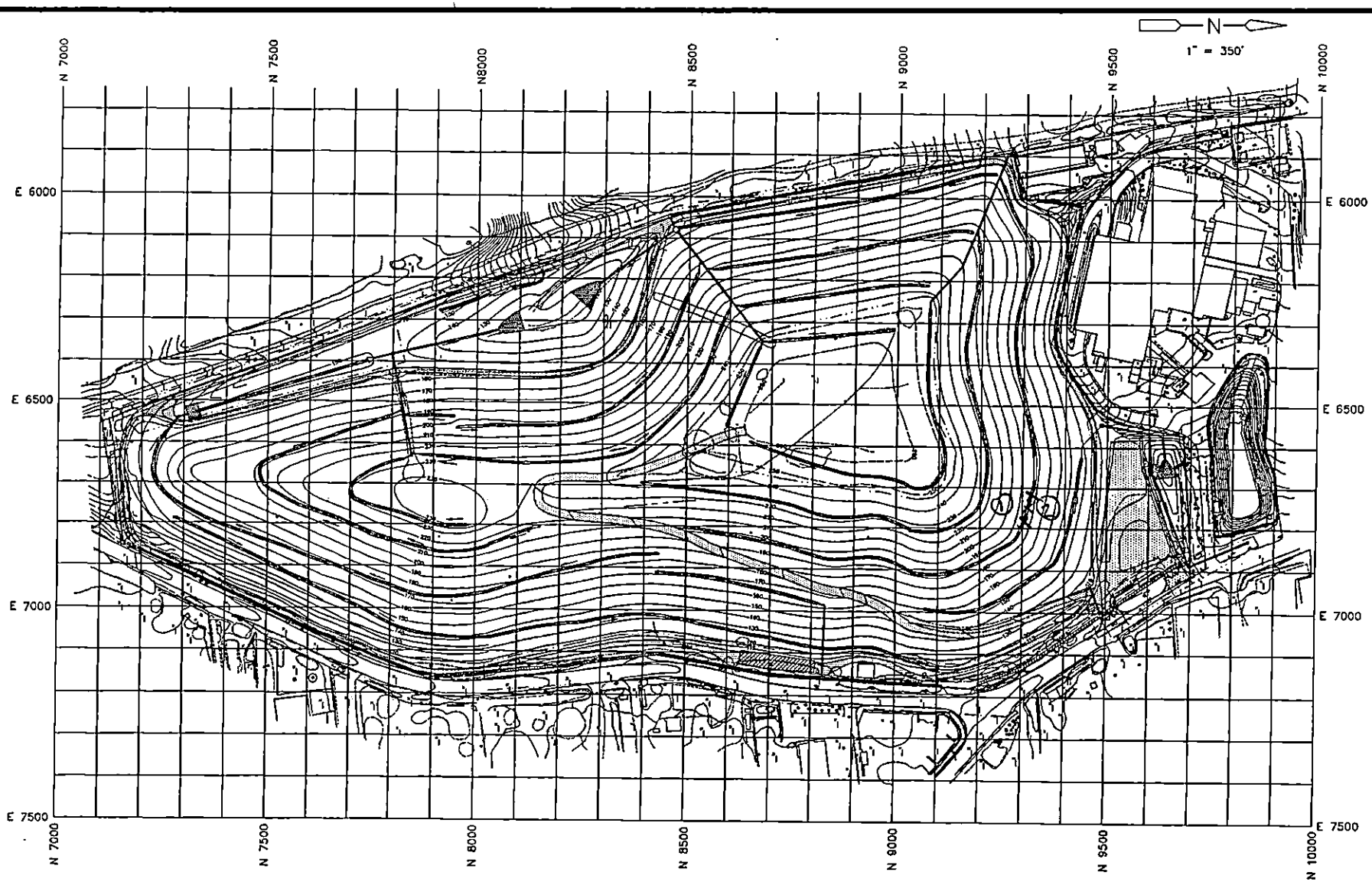
SPECIFICATION REQUIREMENTS

SOURCE: Schkider MATERIAL TYPE (CIRCLE ONE): (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED)): ±9"

% COMPACTION: 85.0 MOISTURE RANGE: ±2.0% ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
090496-1	N 9250 E 67 7250 (X2)	6"/1	8.3	128.6	7.6	125.6	116.8	90.8	P			JD
090496-2	N 9350 E 67 7250 (X2)	6"/1	8.3	128.6	7.5	119.6	111.3	86.5	P			JD
090496-3	Channel A 1st	6"/1 18"	8.3	128.6	9.8	134.4	122.4	95.2	P			JD
090496-4	Channel A 2nd	6"/2 12"	8.3	128.6	8.5	120.3	111.9	86.2	P			JD
090496-5	Channel A 3rd	6"/3 12"	8.3	128.6	7.8	118.7	110.1	85.6	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

9 April 96 Select Fill

PROJECT NO. 4170.1
CAD FILE NO. 0-2A
SHEET NO. 100-FTG

X test in channel

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 12 day April month 96 year

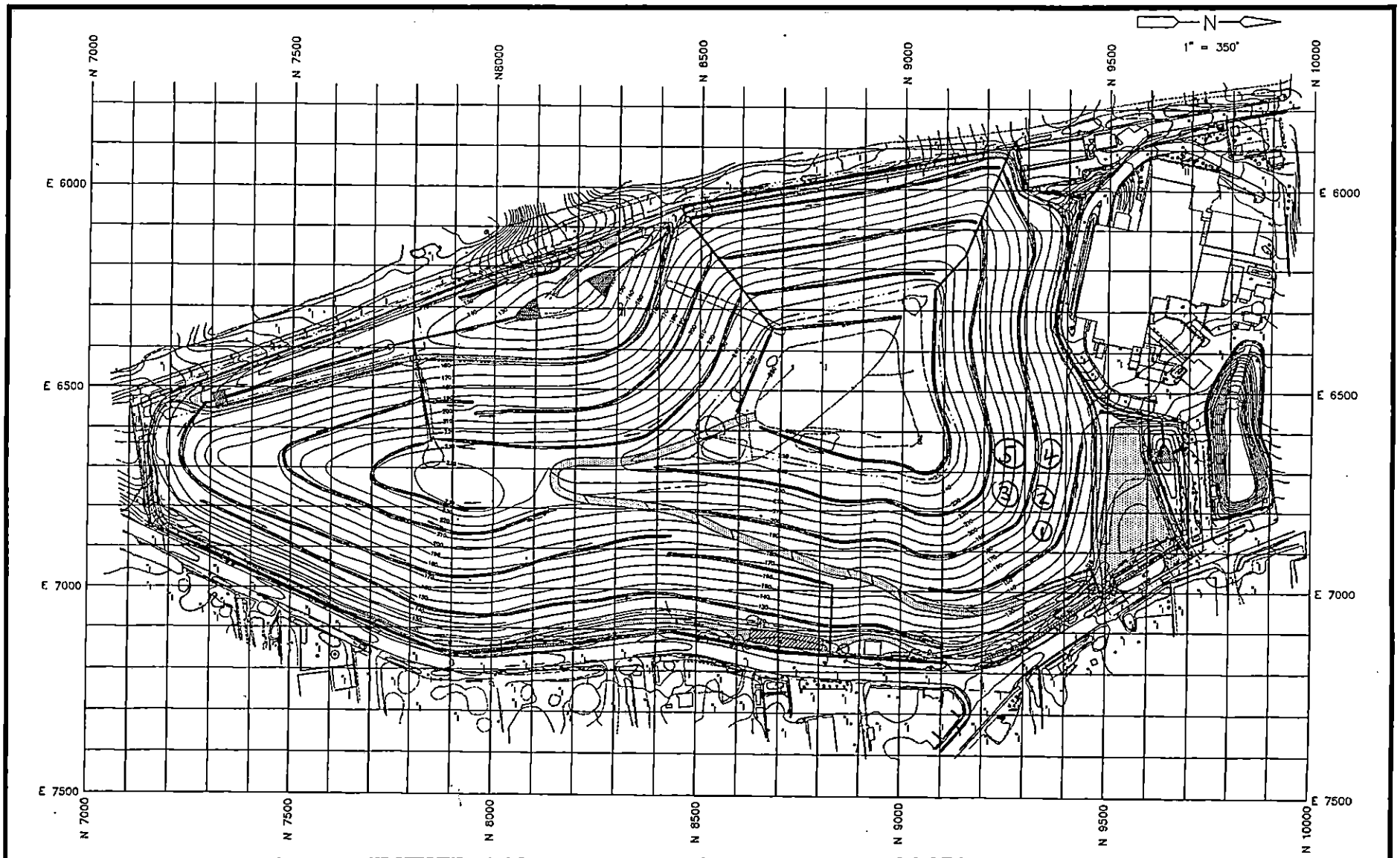
SPECIFICATION REQUIREMENTS

SOURCE: Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED)): ±9"
(CIRCLE ONE)

% COMPACTION: 85.0 MOISTURE RANGE: ±2.0% ASTM D 698: A B C / (ASTM D 1557): A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
120496-1	N9350 E6850	6"/2	8.3	128.6	8.1	121.1	112.0	87.1	P			JD
120496-2	N9350 E6750	6"/2	8.3	128.6	7.9	123.5	114.5	89.0	P			JD
120496-3	N9250 E6750	6"/2	8.3	128.6	9.1	125.4	114.9	89.4	P			JD
120496-4	N9250 E6650	6"/1	8.3	128.6	8.5	119.9	110.5	85.9	P			JD
120496-5	N9350 E6650	6"/1	8.3	128.6	7.3	120.7	112.5	87.5	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

12 April 96 Select Fill

PROJECT NO. 4170.1
CAD FILE NO. 0-24
SHEET NO. 100-FTG

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 15 day April month 96 year

SPECIFICATION REQUIREMENTS

SOURCE: Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

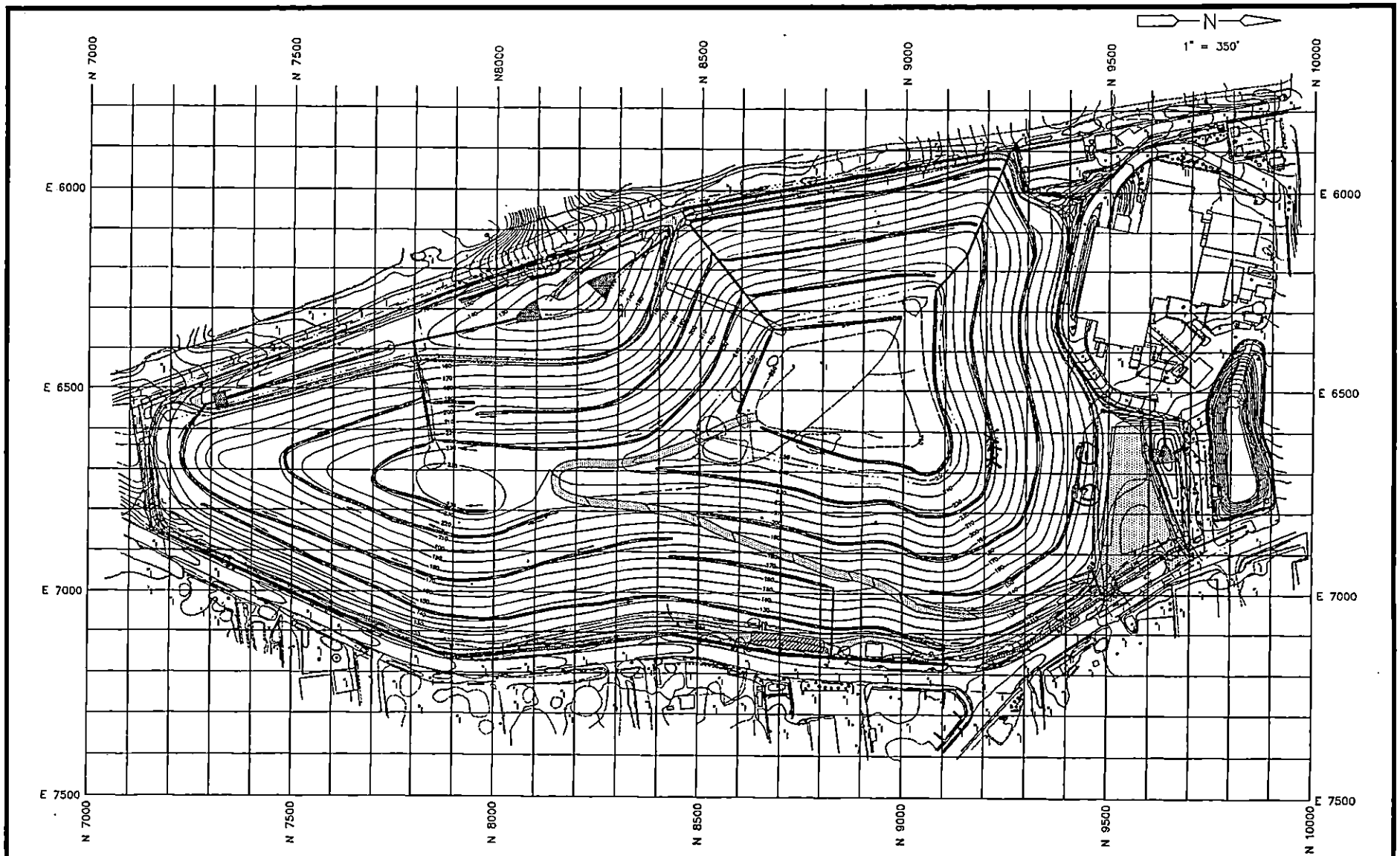
(CIRCLE ONE)

% COMPACTION: 85.0 MOISTURE RANGE: ± 2.0% ASTM D 698: A B C / ASTM D 1557: A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
150496-1	N9450 E6650	6"/1	8.3	128.6	9.5	125.4	114.5	89.1	P			JD
150496-2	N9450 E6750	6"/1	8.3	128.6	11.6	128.5	115.1	89.5	P			JD
150496-3	Channel B	6"/1	8.3	128.6	10.1	126.9	113.7	88.4	P			JD
150496-4	Channel B	6"/2	8.3	128.6	8.9	125.4	115.2	89.5	P			JD
150496-5	Channel B	6"/3	8.3	128.6	9.3	130.3	119.2	92.7	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

15 April 96 Select Fill

PROJECT NO. 4121.1
CAD FILE NO. C-2A
SHEET NO. 100-FTG

X Test in channel

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 18 day April month 96 year

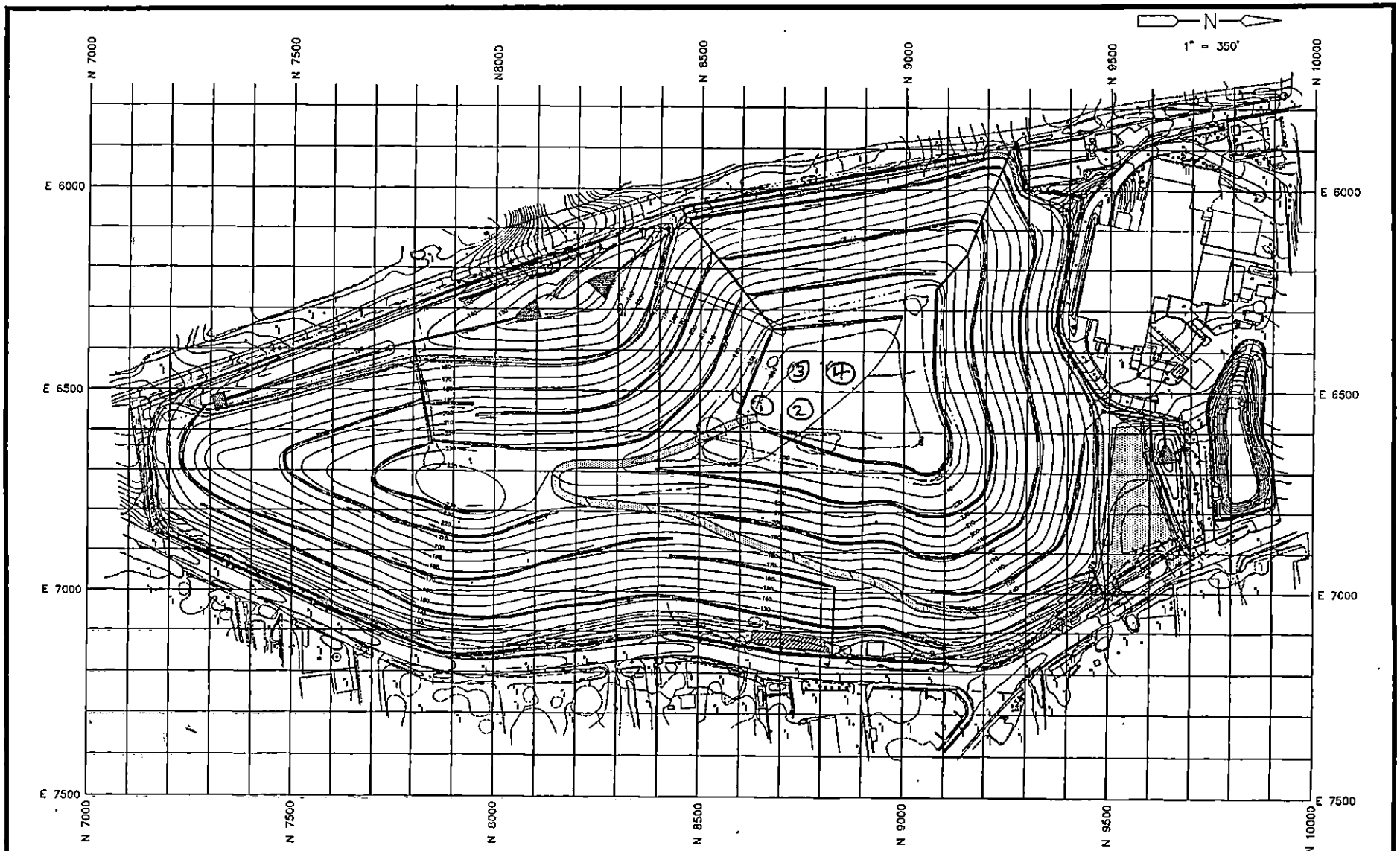
SPECIFICATION REQUIREMENTS

SOURCE: Schneider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED)): ±9"
(CIRCLE ONE)

% COMPACTION: 85.0 MOISTURE RANGE: ±2.0% ASTM D 698: A B C / (ASTM D 1557: A B C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO.: 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
180496-1	N8650 E6550	6" / 1	8.3	128.6	7.3	119.7	111.5	86.7	P			JD
180496-2	N8750 E6550	6" / 1	8.3	128.6	8.5	123.1	113.5	88.3	P			JD
180496-3	N8750 E6450	6" / 1	8.5	128.6	7.1	125.8	117.5	91.3	P			JD
180496-4	N8850 E6450	6" / 1	8.3	128.6	7.7	122.4	113.6	88.4	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

18 April 96 Select Fill

PROJECT NO. 4170.1
CAD FILE NO. D-2A
SHEET NO. 100-FTG

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 19 day April month 96 year

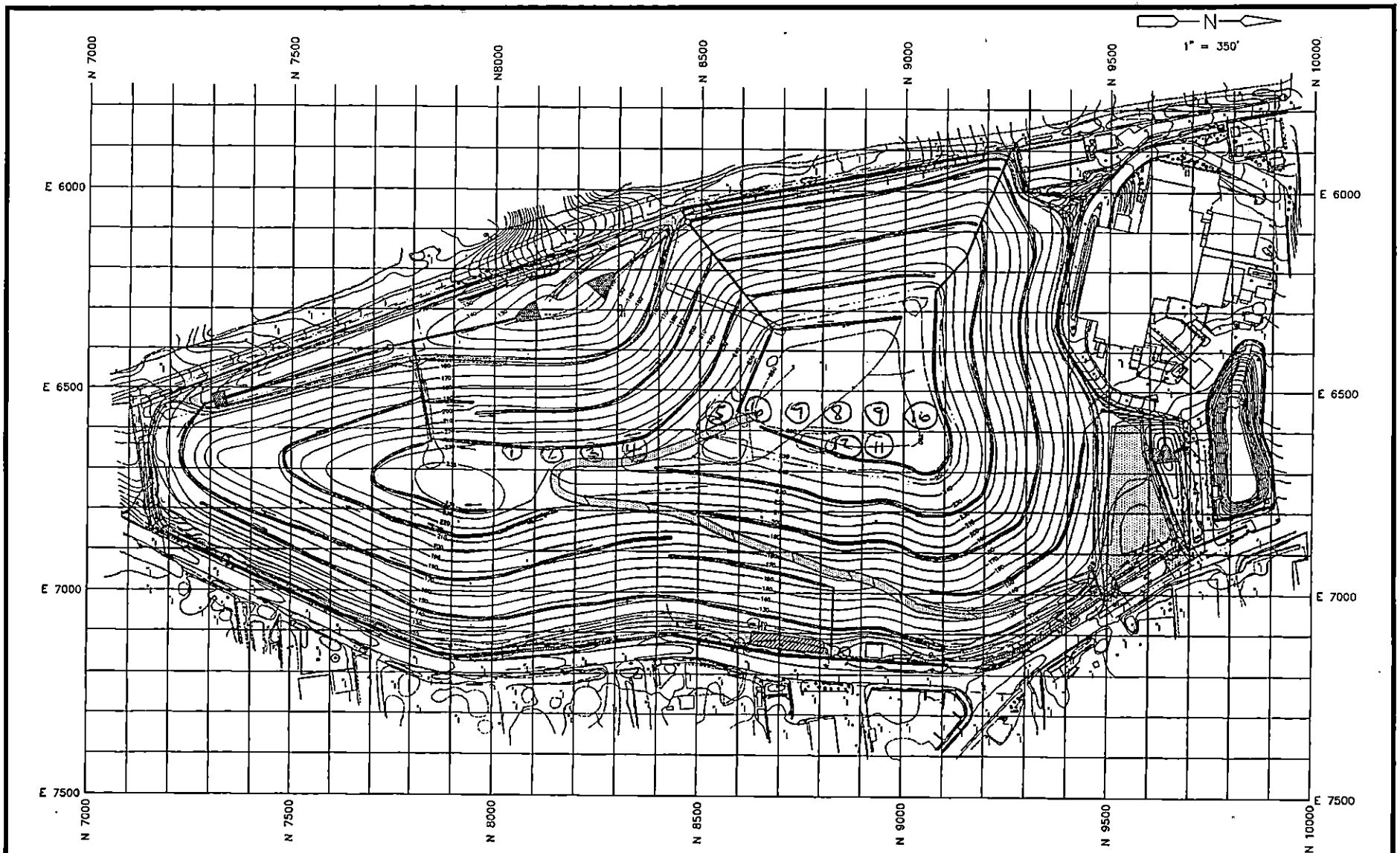
SPECIFICATION REQUIREMENTS

SOURCE: Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/~~COMPACTED~~): ± 9"
(CIRCLE ONE)

% COMPACTION: 85.0 MOISTURE RANGE: ± 2.0% ASTM D 698: A B C / ~~ASTM D 1557:~~ A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B. NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
190496-1	N 8050 E 6650	6" / 2	8.3	128.6	7.5	120.4	112.0	87.1	P			JD
190496-2	N 8150 E 6650	6" / 2	8.3	128.6	6.1	121.3	114.3	88.9	P			JD
190496-3	N 8250 E 6650	6" / 2	8.3	128.6	8.5	122.9	113.3	88.1	P			JD
190496-4	N 8350 E 6650	6" / 2	8.3	128.6	7.1	121.3	113.3	88.1	P			JD
190496-5	N 8550 E 6550	6" / 2	8.3	128.6	5.9	118.1	111.5	86.7	P			JD
190496-6	N 8650 E 6550	6" / 2	8.3	128.6	6.2	119.4	112.4	87.4	P			JD
190496-7	N 8750 E 6550	6" / 2	8.3	128.6	6.5	118.7	111.5	86.7	P			JD
190496-8	N 8850 E 6550	6" / 2	8.3	128.6	7.4	119.8	111.5	86.7	P			JD
190496-9	N 8950 E 6550	6" / 2	8.3	128.6	8.3	121.5	112.2	87.2	P			JD
190496-10	N 9050 E 6550	6" / 2	8.3	128.6	9.1	125.8	115.3	89.7	P			JD
190496-11	N 8850 E 6650	6" / 2	8.3	128.6	8.7	127.1	116.9	90.9	P			JD
190496-12	N 8950 E 6650	6" / 2	8.3	128.6	8.0	124.3	115.1	89.5	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

19 April 96 Select Fill

PROJECT NO. 4175.1
CAD FILE NO. 0-2A
SHEET NO. 100-FTG

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 22 day April month 96 year

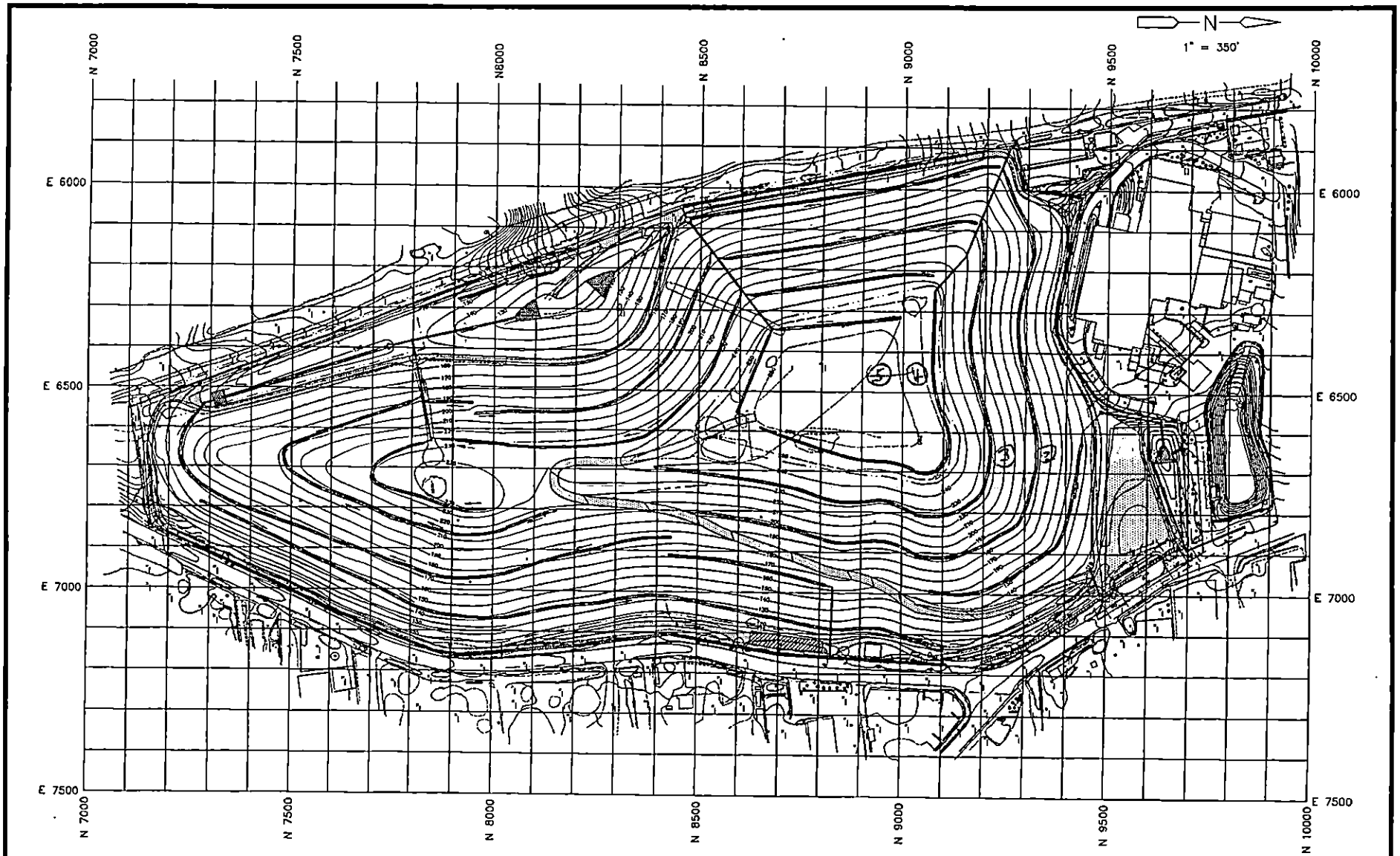
SPECIFICATION REQUIREMENTS

SOURCE: Schneider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED)): ±9"

% COMPACTION: 85.0 MOISTURE RANGE: ±2.0% ASTM D 698: A B C / (ASTM D 1557): A B (C)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
220496-1	N 7850 E 6750	6"/2	8.3	128.6	6.3	119.0	111.9	87.1	P			JD
220496-2	N 9350 E 6650	6"/2	8.3	128.6	7.1	121.4	113.4	88.1	P			JD
220496-3	N 9250 E 6650	6"/2	8.3	128.6	7.5	125.8	117.0	91.0	P			JD
220496-4	N 9050 E 6450	6"/2	8.3	128.6	7.0	123.7	115.6	89.9	P			JD
220496-5	N 8950 E 6450	6"/2	8.3	128.6	6.8	122.1	114.3	88.9	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

22 April 96 Select Fill

PROJECT NO. 4170.1
CAD FILE NO. C-2A
SHEET NO. 100-FTG

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 23 day April month 96 year

SPECIFICATION REQUIREMENTS

SOURCE: Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED)): ±9"

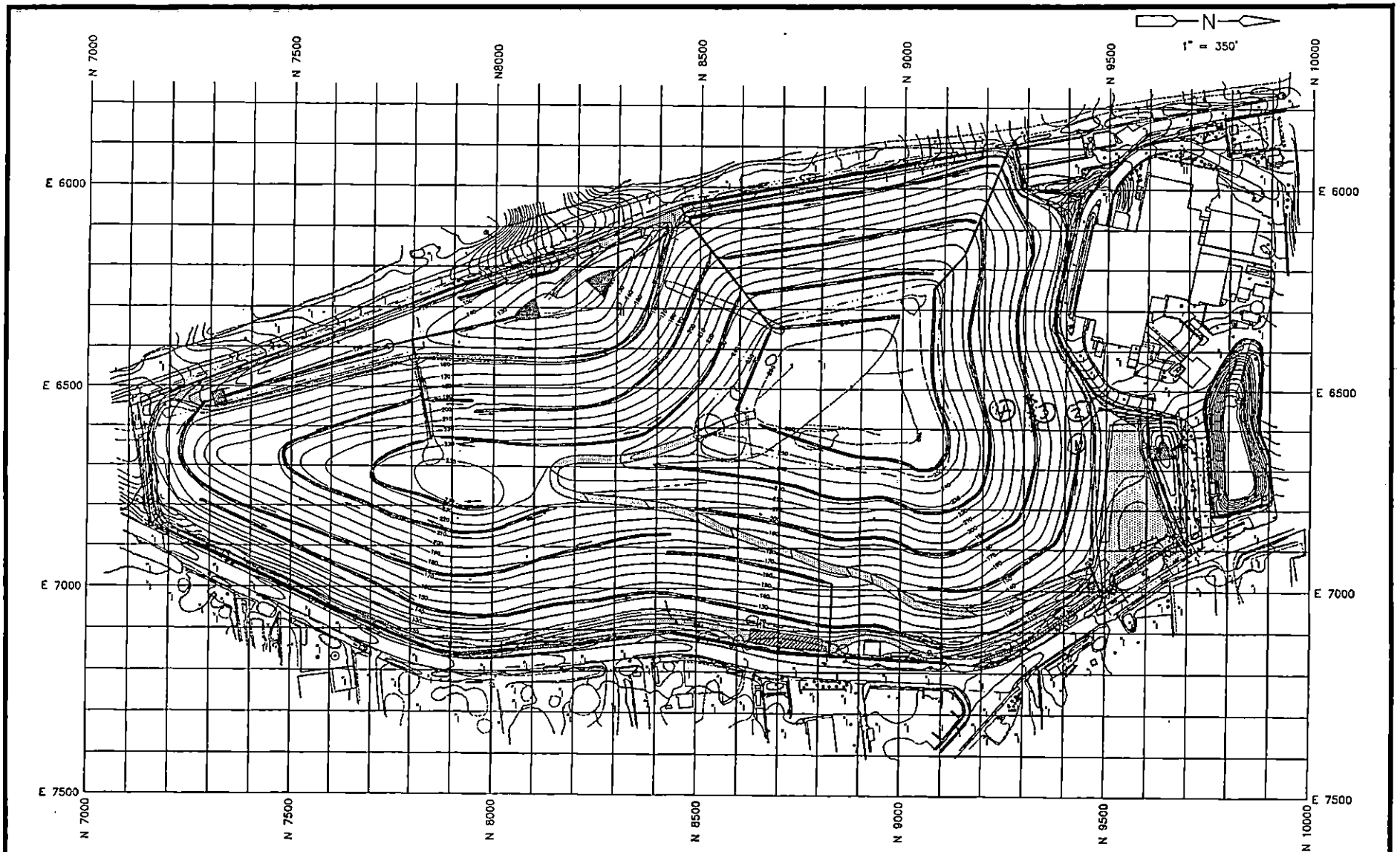
(CIRCLE ONE)

% COMPACTION: 85.0 MOISTURE RANGE: ±2% ASTM D 698: A B C / ~~ASTM D 1557~~: A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
230496-1	N945.0 E665.0	6"/2	8.3	128.6	6.1	121.7	114.0	88.7	P			JD
230496-2	N945.0 E655.0	6"/2	8.3	128.6	6.9	123.5	115.5	89.8	P			JD
230496-3	N935.0 E655.0	6"/2	8.3	128.6	7.3	122.9	114.5	89.1	P			JD
230496-4	N925.0 (R) E655.0	6"/2	8.3	128.6	7.2	125.4	117.0	91.0	P			JD
230496-5	channel A	6"/1	8.3	128.6	8.4	125.6	115.9	90.1	P			JD
230496-6	channel A	6"/2	8.3	128.6	8.1	123.1	113.9	88.6	P			JD
230496-7	channel A	6"/3	8.3	128.6	9.7	126.3	115.1	89.5	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

23 April 1996 Select Fill

PROJECT NO. 4170.1
CAD FILE NO. C-5A
SHEET NO. 100-FTG

x tests performed in channel

GEOSYNTEC CONSULTANTS

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 24 day April month 96 year

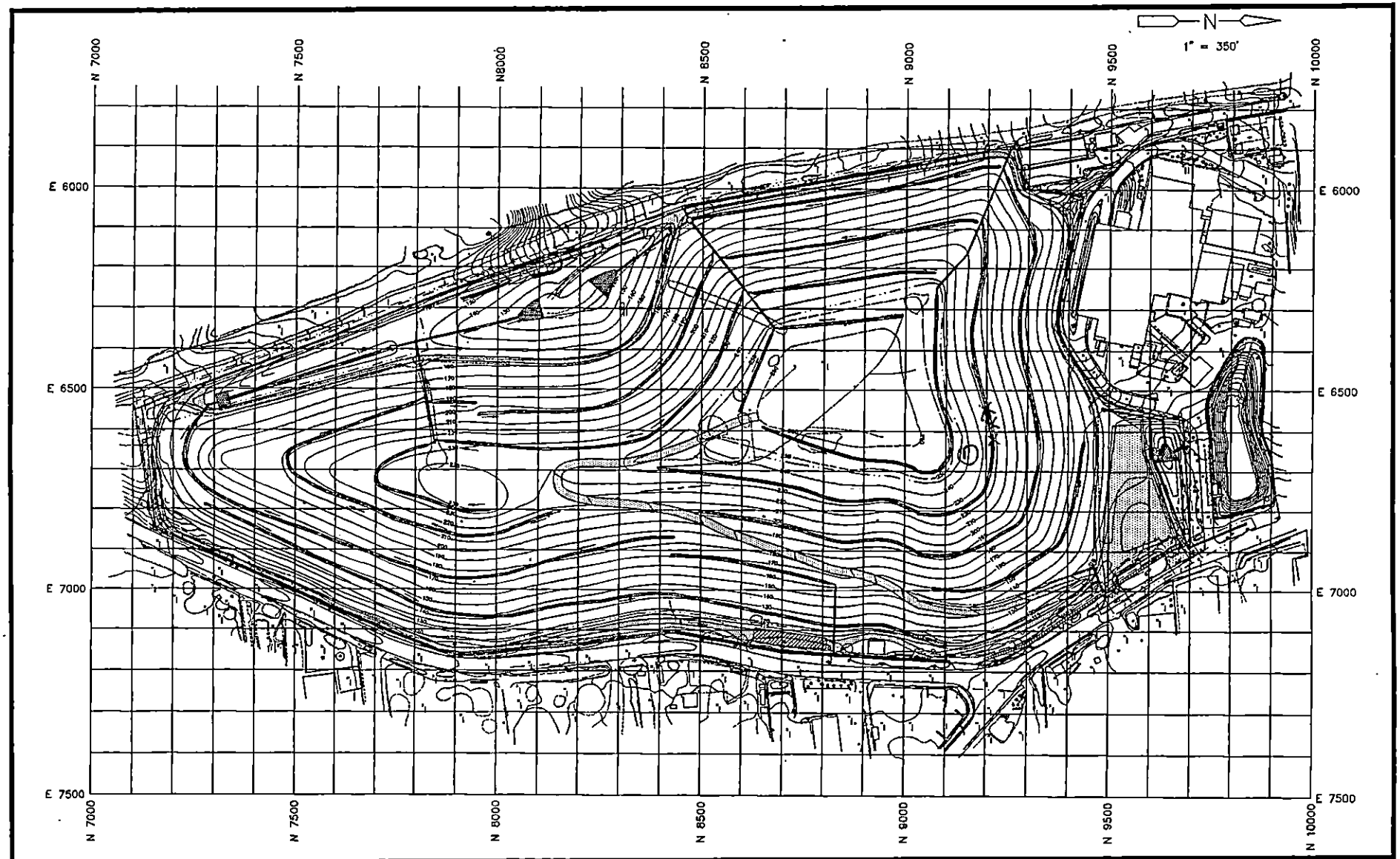
SPECIFICATION REQUIREMENTS

SOURCE: Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED)): ±9"
(CIRCLE ONE)

% COMPACTION: 85.0 MOISTURE RANGE: ±2.0% ASTM D 698: A B C / (ASTM D 1557) A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
240496-1	N9150 E6650	6"/1	8.3	128.6	7.5	124.1	115.4	89.7	P			JD
240496-2	channel B	6"/1	8.3	128.6	7.3	122.6	114.3	88.8	P			JD
240496-3	channel B	6"/2	8.3	128.6	6.8	120.9	113.2	88.0	P			JD
240496-4	channel B	6"/3	8.3	128.6	6.4	124.1	116.6	90.7	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

24 April 96 Select Fill

PROJECT NO. 4170.3
CAD FILE NO. 0-2A
SHEET NO. 100-FTG

X tests performed in channel

2 of 2

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 25 day April month 96 year

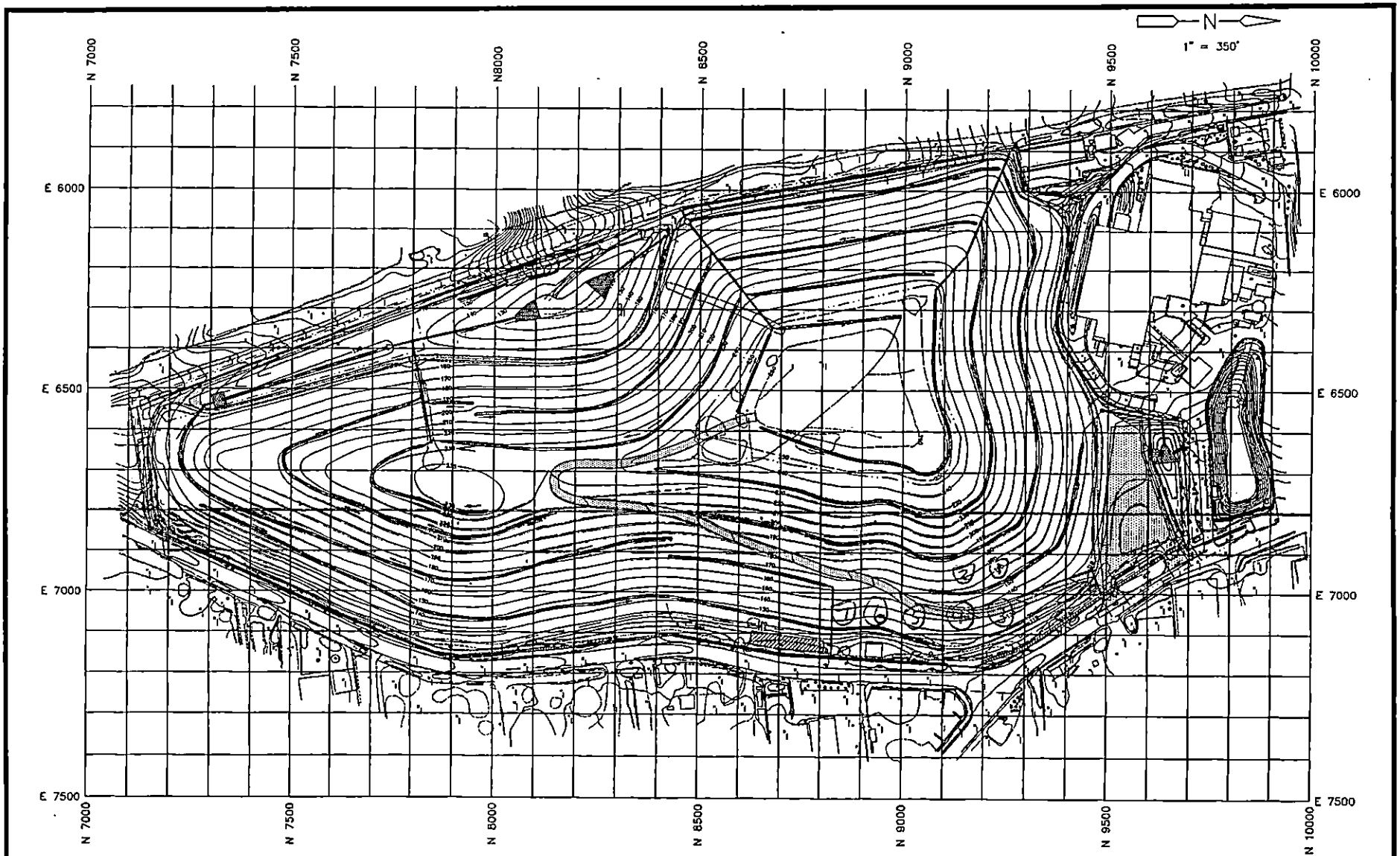
SPECIFICATION REQUIREMENTS

SOURCE: Schkider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/COMPACTED): ±9"
(CIRCLE ONE)

% COMPACTION: 95.0 MOISTURE RANGE: ±2% ASTM D 698: A B C / ASTM D 1557: A B C
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
250496-1	N9250 E6950	6"/2	8.3	128.6	6.5	121.0	113.6	88.3	P			JD
250496-2	N9150 E6950	6"/2	8.3	128.6	5.8	120.7	114.1	88.7	P			JD
250496-3	N9250 E7050	6"/2	8.3	128.6	6.9	122.6	114.7	89.2	P			JD
250496-4	N9150 E7050	6"/2	8.3	128.6	6.7	122.5	114.8	89.3	P			JD
250496-5	N9050 E7050	6"/2	8.3	128.6	7.1	124.8	116.5	90.6	P			JD
250496-6	N8950 E7050	6"/2	8.3	128.6	6.9	121.8	113.9	88.6	P			JD
250496-7	N8850 E7050	6"/2	8.3	128.6	6.0	120.9	114.1	88.7	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

25 April 96 Select Fill

PROJECT NO. 4170.1
CAD FILE NO. C-2A
SHEET NO. 100-FTG

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 26 day April month 96 year

SPECIFICATION REQUIREMENTS

SOURCE: Schleider MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED)): ±9"

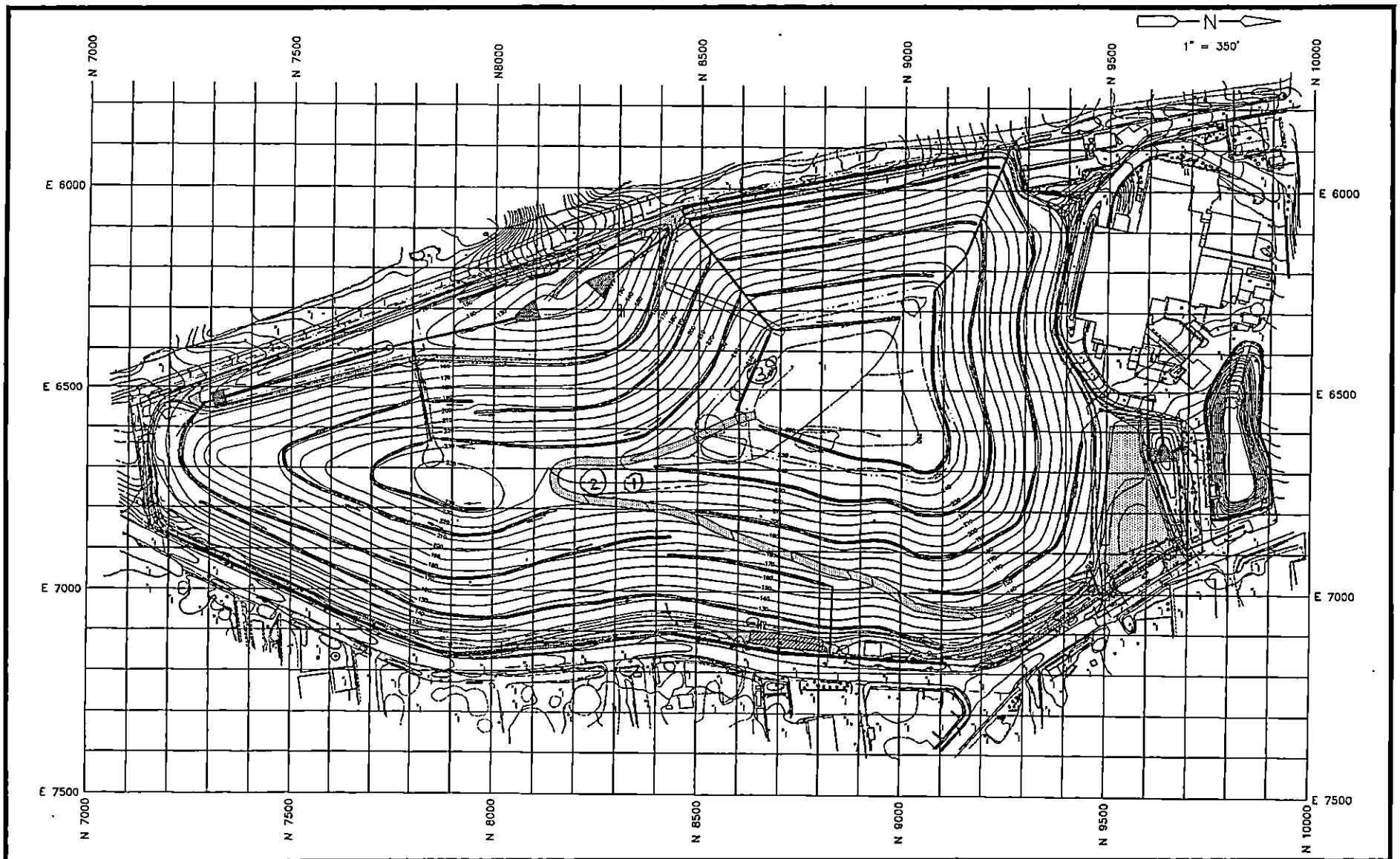
(CIRCLE ONE)

% COMPACTION: 85.0 MOISTURE RANGE: ±2.0% ASTM D 698: A B C / (ASTM D 1557) A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411-B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: —

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
260496-1	N 8350 E 6750	6" / 1	8.3	128.6	7.8	123.5	114.6	89.1	P			JA
260496-2	N 8250 E 6750	6" / 1	8.3	128.6	7.4	125.1	116.5	90.6	P			JD
260496-3	N 8650 E 6450	6" / 1	8.3	128.6	6.1	122.7	115.6	89.9	P			JD



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

26 April 96 Select Fill

PROJECT NO. 4170.1
CAD FILE NO. 0-2A
SHEET NO. 100-FTG

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 2 day MAY month 96 year

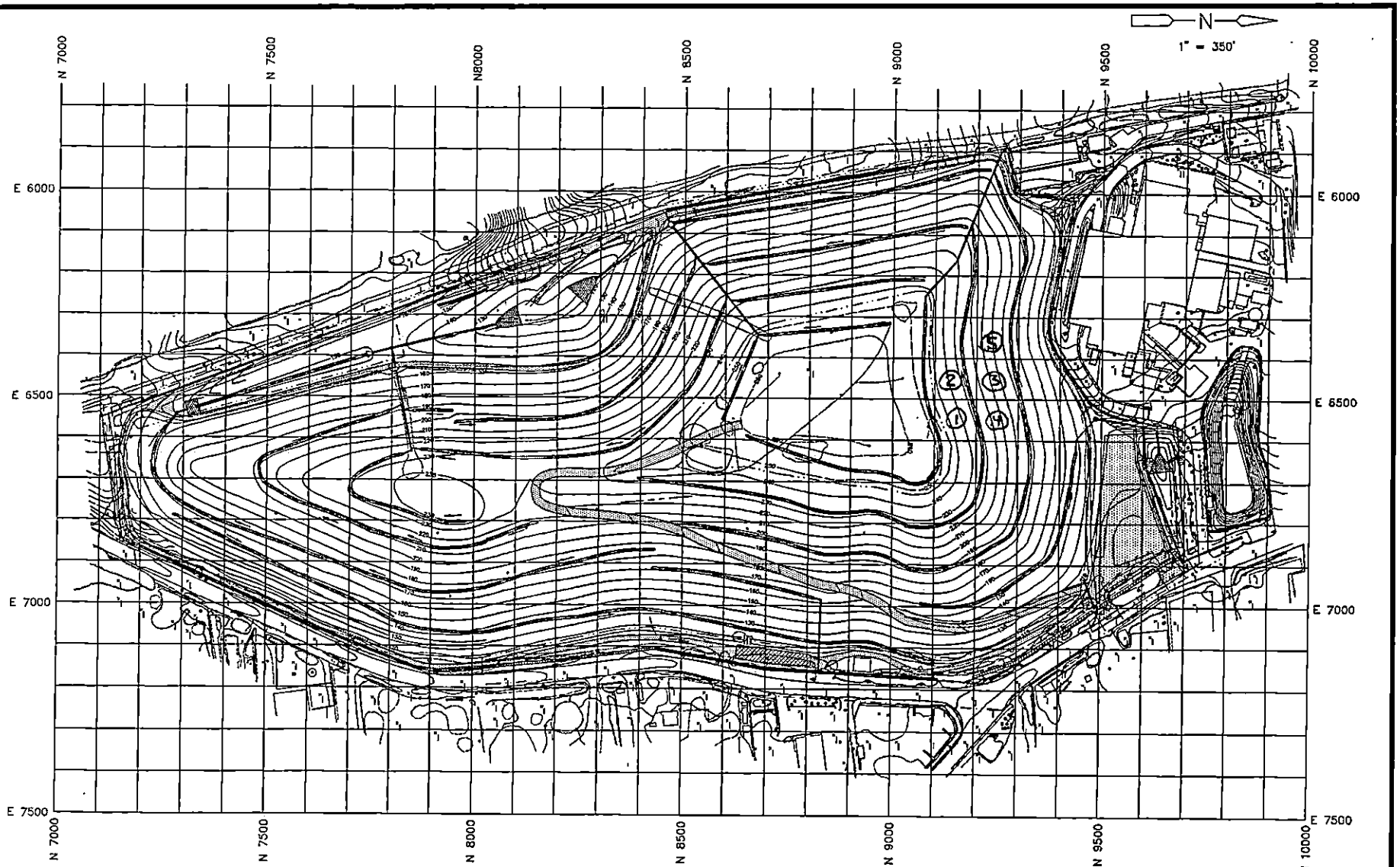
SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (SELECT FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: (CIRCLE ONE) LIFT THICKNESS (LOOSE/COMPACTED): 9"

% COMPACTION: ≥ 86.0 MOISTURE RANGE: ± 2% OMC ASTM D 698: A B C / ASTM D 1557: A B (C) (CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411 B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: 0

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
020596-1	N 9150 E 6550	8" / - / 1	8.3	128.6	7.4	123.1	114.6	89.1	P			JPR
020596-2	N 9150 E 6450	8" / - / 2	8.3	128.6	9.1	127.9	117.2	91.1	P			JPR
020596-3	N 9250 E 6450	8" / - / 2	8.3	128.6	8.0	126.0	116.7	90.7	P			JPR
020596-4	N 9250 E 6550	8" / - / 1	8.3	128.6	9.0	131.2	120.3	93.5	P			JPR
020596-5	N 9250 E 6350	8" / - / 2	8.3	128.6	8.8	123.9	113.9	88.6	P			JPR



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK
INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID
SELECT FILL

PROJECT NO. 41701
CAD FILE NO. C-24
SHEET NO. 100-FTG

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 6 day 5 month 96 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (SELECT FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/COMPACTED): 9"

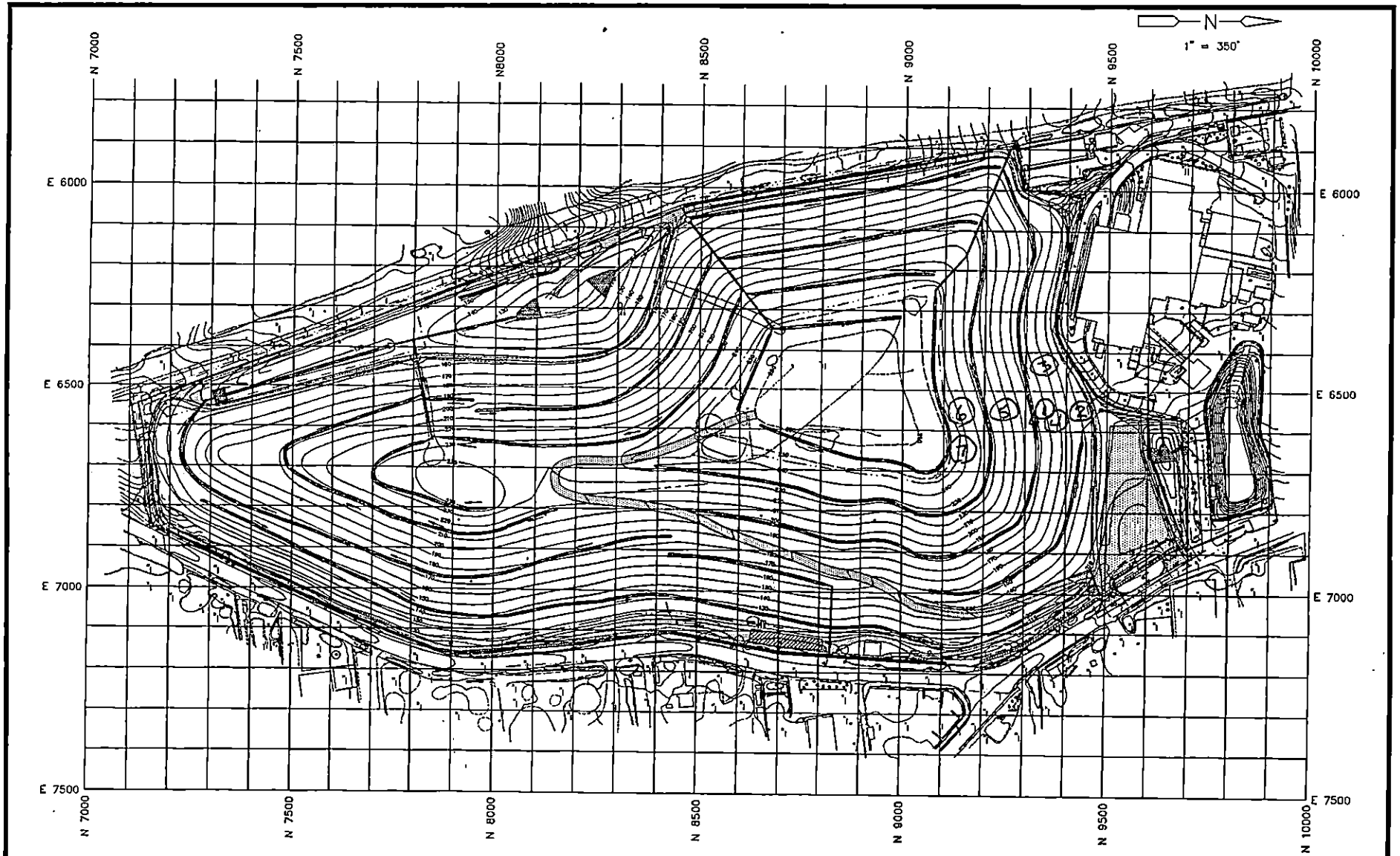
(CIRCLE ONE)

% COMPACTION: ≥ 85.0 MOISTURE RANGE: ± 2% OMC ASTM D 698: A B C / ASTM D 1557: A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: 0

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
060596-1	9350 N 6550 E	8"/-/1	8.3	128.6	10.1	125.5	114.1	88.7	P			VR
060596-2	9450 N 6550 E	8"/-/1	8.3	128.6	9.8	122.6	114.9	89.3	P			VR
060596-3	9350 N 6450 E	8"/-/2	8.3	128.6	10.2	133.3	120.5	93.7	P			VR
060596-4	9350 N 6550 E	8"/-/2	8.3	128.6	10.1	126.4	114.9	89.3	P			VR
060596-5	9250 N 6550 E	8"/-/2	8.3	128.6	10.3	127.0	114.6	89.1	P			VR
060596-6	9150 N 6550 E	8"/-/2	8.3	128.6	9.1	122.6	112.4	87.3	P			VR
060596-7	9150 N 6650 E	8"/-/2	8.3	128.6	9.8	134.2	121.8	94.7	P			VR



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

SELECT FILL

PROJECT NO. 4170.1
CAD FILE NO. 0-2A
SHEET NO. 100-FTG

6 MAY 96

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 7 day 5 month 96 year

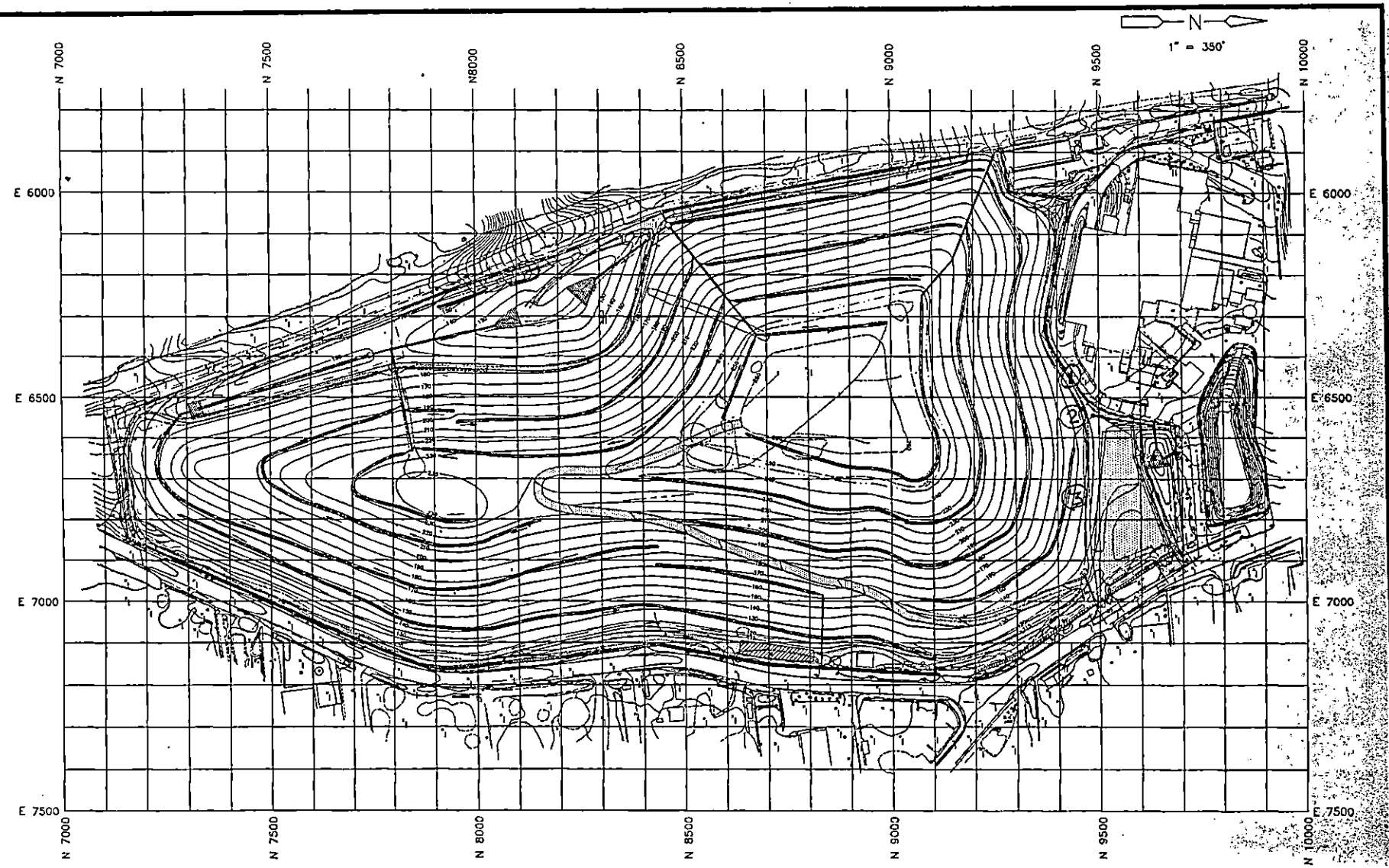
SPECIFICATION REQUIREMENTS

SOURCE: SCHNEIDER MATERIAL TYPE: (SELECT FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/COMPACTED): 9"
(CIRCLE ONE)

% COMPACTION: ≥ 85.0 MOISTURE RANGE: ± 2 %OMC ASTM D 698: A B C / ASTM D 1557: A B (C)
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411B NUCLEAR GAUGE SERIAL NO. 116972 COR. FACTOR: 0

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
070596-1	9450N 6450E	8"/-/2	8.3	128.6	8.9	125.3	115.0	89.4	P			JRR
070596-2	9450N 6550E	8"/-/2	8.3	128.6	8.1	132.2	122.3	95.1	P			JRR
070596-3	9450N 6750E	8"/-/2	8.3	128.6	10.2	127.2	115.4	89.7	P			JRR



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

SELECT FILL

PROJECT NO. 4170.1
CAD FILE NO. 0-2A
SHEET NO. 100-FTG

7 May 96 JR

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: MAY day 14 month 1996 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (SELECT FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/(COMPACTED)): 9"

% COMPACTION: ≥ 85.0 % MOISTURE RANGE: ± 2% OMC ASTM D 698: A B C / ASTM D 1557: A B (C)

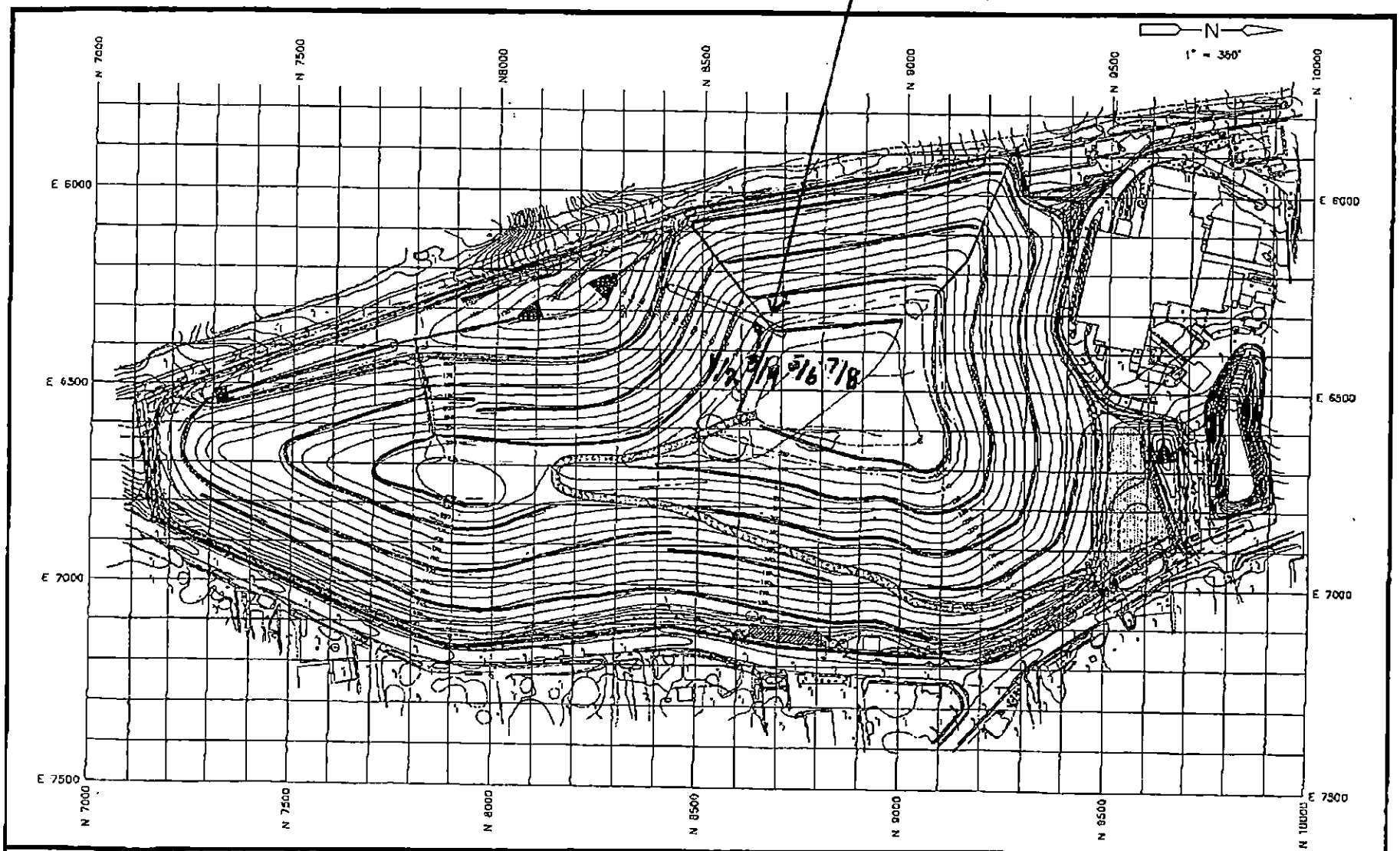
NUCLEAR GAUGE TYPE: TROXLER 3411 B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: 0

TEST NO.	TEST LOCATION	PROBE DEPTH/ ELEV/ LIFT NO.	LAB RESULTS OMC (%)	LAB RESULTS MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RETEST NO.	QA ID
1	7550N 6750E	8" / - / 2	8.3	128.6	9.2	125.7	115.1	89.5	P			GD
2	7550N 6850E	8" / - / 2	8.3	128.6	8.9	126.4	116.1	90.2	P			GD

MAY 13 1996

J.K.

TESTS REMAINING



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MAY-13-96 MON 10:04 AM

P.02

GeoSyntec Consultants

TOWN OF HUNTINGTON

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: HUNTINGTON / EAST NORTHPORT LANDFILL

LOCATION: SUFFOLK COUNTY, NEW YORK PROJECT NO.: GQ3700 TASK NO.: 01

DESCRIPTION: CONSTRUCTION OF LANDFILL CLOSURE DATE: 07 day 06 month 96 year

SPECIFICATION REQUIREMENTS

SOURCE: SCHLEIDER MATERIAL TYPE: (SELECT FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____ LIFT THICKNESS (LOOSE/COMPACTED): 9"

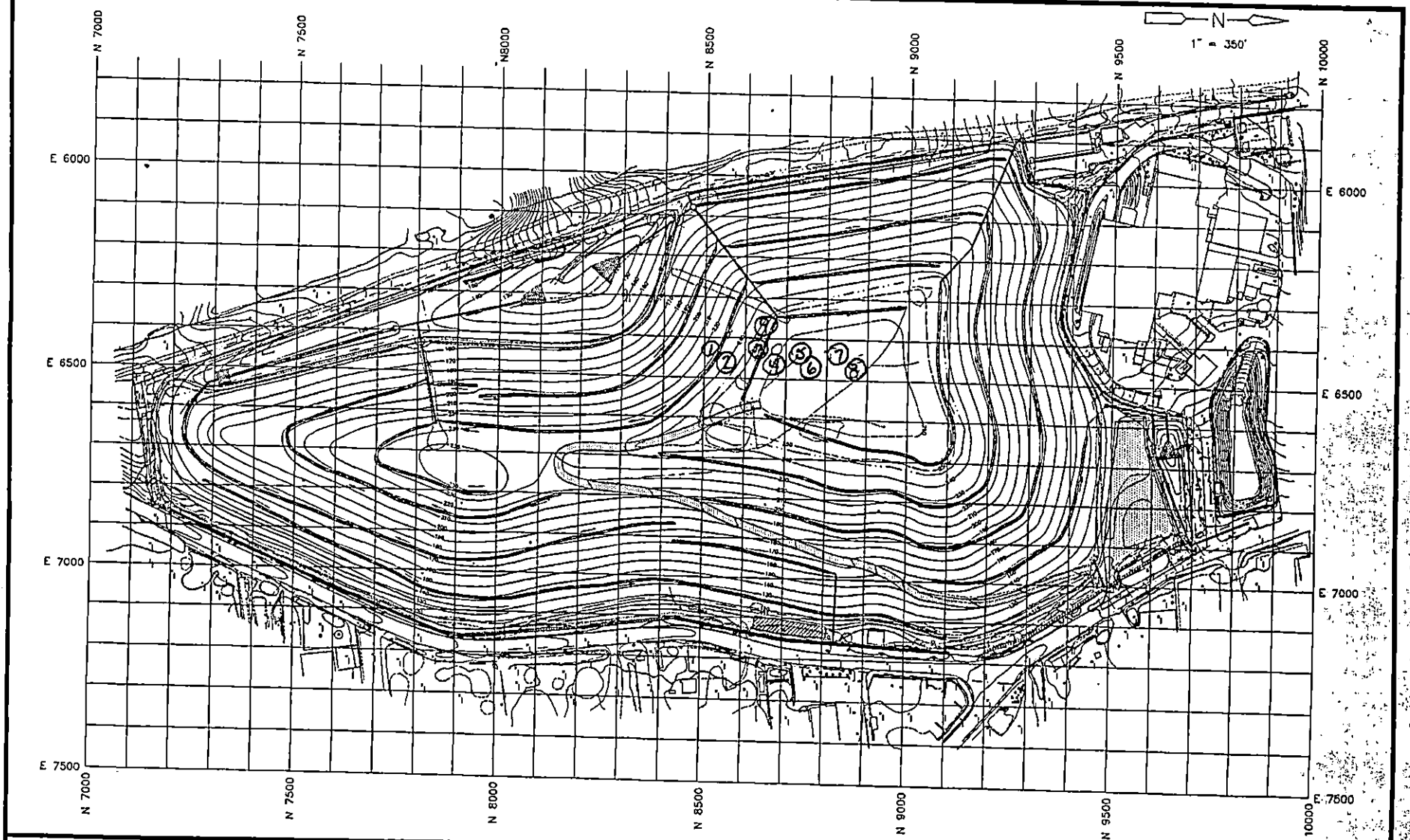
(CIRCLE ONE)

% COMPACTION: ≥ 85.0 % MOISTURE RANGE: ± 2% OMC ASTM D 698: A B C / ASTM D 1557: A B (C)

(CIRCLE ONE)

NUCLEAR GAUGE TYPE: TROXLER 3411B NUCLEAR GAUGE SERIAL NO. 16972 COR. FACTOR: 0

TEST NO.	TEST LOCATION	PROBE DEPTH/ ~~ELEV~~/LIFT NO.	LAB RESULTS		FIELD TEST RESULTS						RETEST NO.	QA ID
			OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL		
1	8550 N 6450 E	8"/-/1	8.3	128.6	8.2	126.0	116.5	90.8	P		—	NS
2	8550 N 6450 E	8"/-/2	8.3	128.6	7.1	124.9	116.6	90.6	P		—	NS
3	8650 N 6450 E	8"/-/1	8.3	128.6	9.6	128.4	117.2	91.1	P		—	NS
4	8650 N 6450 E	8"/-/2	8.3	128.6	9.7	128.8	117.4	91.3	P		—	NS
5	8750 N 6450 E	8"/-/1	8.3	128.6	9.1	126.4	115.9	90.1	P		—	NS
6	8750 N 6450 E	8"/-/2	8.3	128.6	9.6	125.2	114.3	88.8	P		—	NS
7	8850 N 6450 E	8"/-/1	8.3	128.6	9.0	127.0	116.6	90.6	P		—	NS
8	8850 N 6450 E	8"/-/2	8.3	128.6	8.9	124.2	114.0	88.6	P		—	NS
9	8650 N 6350 E	8"/-/2	8.3	128.6	9.4	122.1	111.6	86.7	P		—	NS



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EAST NORTHPORT LANDFILL
TOWN OF HUNTINGTON, NEW YORK

INTERIM REMEDIAL PROGRAM

100 FOOT FIELD TESTING GRID

SELECT FILL

PROJECT NO. 4787

CAD FILE NO. 0-2A

SHEET NO. 100-FTG